



APTIM
500 Penn Center Blvd, Suite 900
Pittsburgh, PA 15235
Tel: 412.372.7701
Fax: 412.373.7135
www.aptim.com

November 29, 2018

Steven Moeller, P.G.
Engineering Geologist 1
New York State Department of Environmental Conservation
270 Michigan Avenue
Buffalo, NY 14203-2915

Subject: *Response to Comments*
Bioremediation Program Status Report – June 2018
Textron Inc.
2221 Niagara Falls Boulevard
Wheatfield, New York
New York State Site No. 932052

Dear Mr. Moeller:

Aptim Environmental & Infrastructure, Inc. (APTIM) is in receipt of the New York State Department of Environmental Conservation's (the Department) November 2, 2018 comment letter and email of November 13, 2018. On behalf of Textron Inc. (Textron), APTIM has prepared this response to comments and has revised the enclosed report according to the comments.

A majority of the comments in the Department's letter were editorial in nature and have been addressed in the revised report. Several of the items requiring additional comment or discussion are detailed below:

Comment:

Section 3.1 Summary: Well 89-15(1) may not have been the best example to choose to illustrate the effectiveness of the injection program. The total VOC concentrations in well 89-15(1) decreased by over 99% between the 10/20/16 and 11/14/17 sampling events (Table 4), but this was before the injections occurred. Total VOC concentrations in 89-15(1) increased for 3 straight sampling events subsequent to the injections being performed, but the June 2018 results have trended downward.

Response:

This well is in the monitoring program and has been pointed out because it shows the largest decrease in total volatile organic compounds at the site. The calculation does not take into account for the single data point in 11/14/2017 data and looks at the decreases in each well over time. During the past sampling event, parent compounds have decreased with a continued increase in ethene, indicating that reductive dechlorination is occurring.

Comment:

Section 3.1 Summary: Significant contaminant spikes occurred in several wells [e.g., 87-08(1), 87-13(1), and 89-10(1)] immediately after the injections were performed, indicating possible contaminant mobilization (Table 4).

Response:

An increase in contaminants is often seen and is expected after an in situ injection due to enhanced dissolution of the contaminants from aquifer matrix by the injection process, but not mobilization out of the treatment area. The following text will be added: "Initially, after and in situ injection, an increase in contaminants is often observed due to enhanced dissolution from the aquifer material, making it available for treatment."

Comment:

Section 3.1 Summary: The groundwater ferrous iron analyses also provide information regarding the distribution of the CRS[®] amendment (which is a soluble, food-grade source of ferrous iron) in the aquifer.

Response:

Ferrous iron was sampled for three of the post-injection sampling events to aid in determining the distribution of CRS[®] and groundwater geochemical conditions. The text will be updated with the following text: "During the injections of CRS[®], a ferrous iron solution was added to the amendment mixture to enhance abiotic degradation by binding to reduced sulfide. Also, as the groundwater becomes more reducing, naturally occurring ferric iron is reduced to ferrous iron. During the post-injection sampling, ferrous iron was analyzed to aid in determining CRS[®] distribution and geochemical conditions. The increases in ferrous iron indicate that CRS[®] has been distributed and reducing conditions exist."

Comment:

Section 3.2 Recommendations: The Department concurs with the recommendation to sample the 10 injection wells [i.e., 17-01(1) through 17-05(1), 87-04(1), 87-05(1), 87-11(1), 87-14(1), and 87-15(1)] for VOC analysis as part of the December 2018 sampling event.

Response:

Noted and added to the December scope of work.

Comment:

Section 3.2 Recommendations: In addition, the Department requests that groundwater samples also be collected in 2018 for VOC analysis from monitoring wells 87-10(1), 87-18(1), and 96-01(1) to further evaluate VOC concentrations at the downgradient site perimeter and for comparison with the 2017 Baseline groundwater analytical data (Table 1) to aid in assessing the suitability of the request to keep the On-Site extraction system idle through 2019.

Response:

Noted and added to the December scope of work.

Comment:

Section 3.2 Recommendations: Can a groundwater sample be collected in 2018 for VOC analysis from Zone 1 monitoring point 86-23B, the middle well in the triplet located southeast of the On-site Treatment System Building? This would provide VOC data for a large unmonitored gap along the southeastern onsite

perimeter. If a sample cannot be obtained from this location at this time, Textron should install a Zone 1 monitoring well at this location to allow sample collection from this area.

Response:

Noted and added to the December scope of work. Analysis of this location will be rather open ended, as there is no analytical history available for this location.

Comment:

Section 3.2 Recommendations: The Department received the analytical results from the September 2018 Bioremediation Performance Monitoring sampling event via email on 10/26/2018, which show significant increases in methylene chloride, trichloroethene, cis-1,2-dichloroethene, and vinyl chloride concentrations in many wells in and downgradient of the neutralization pond source area. This could be related to the change to low-flow sampling methodology for the September 2018 sampling event. However, the Department will review the results of the remaining 2018 sampling events before making any determinations regarding: 1) reducing the 2019 Bioremediation Performance Monitoring sampling frequency to semiannually (i.e., June and December 2019); and 2) allowing the On-Site groundwater extraction/treatment system to continue to remain dormant during 2019 (or if the on-site groundwater extraction system needs to be restarted to prevent potential human health exposures).

Response:

APTIM concurs with the Department and future Bioremediation Performance Monitoring will be conducted using low-flow sampling methods for the evaluation of groundwater. APTIM notes that there are no human health exposures concerns or complete pathway from the Zone 1 groundwater at the site and disagrees with the statement that data collected in 2019 may determine if the onsite system will need to be restarted to prevent potential human health exposures. Additionally, turning the system on, may adversely effect the bioremediation performance by extracting the injected amendments from the groundwater and pulling in oxygenated groundwater from the surrounding areas, changing the groundwater geochemistry.

Comment:

Figure 5: The figure title indicates that the TCE data is from 2017, but many of the values shown are from 2016. The TCE plume on this figure should probably be even larger since the 2017 TCE result for well 96-01(1) [17 ppb] is not shown. Also, several of the 2017 baseline sampling TCE results from Table 1 are not shown on this figure. This figure should probably be recontoured using solely 2017 sampling results.

Response:

This figure has been updated to include and contour only those data collected in 2017 as well as locations that were sampled for baseline conditions but not included in the Bioremediation Program.

Comment:

Email: I was rechecking the *Bioremediation Program Status Report – June 2018* (dated September 2018) for the former Bell Aerospace-Textron facility located in Wheatfield, New York and noticed that Figure 4 presents Zone 1 groundwater elevation contours for **April 2018**, but the April 2018 elevation data is not provided in Table 6. The April 2018 groundwater elevations presented for individual wells in Figure 4 appear to be 2 to 6 feet higher than corresponding March or June 2018 elevations presented in Table 6. Any idea as to the cause of the significantly higher April 2018 groundwater elevations? Significant precipitation or snow melt? If correct, please add the April 2018 groundwater elevation data to Table 6 and the Appendix C Molar Graph plots (and any groundwater elevation data tables/graph plots in future

submittals). The April 2018 groundwater elevation data would imply significant flushing in the upper portion of the bedrock aquifer, which could remobilize any contaminants remaining in the unsaturated zone.

Response:

The April gauging data have been added to Table 6 and the Molar Graphs, where available. A few locations do not contain April 2018 data as they are not part of the ongoing groundwater program. Text has been added to the report discussing the above average rainfall preceding the April gauging.

Textron and APTIM will continue to keep the Department updated regarding the status and data obtained from the Bioremediation Pilot Study. The next sampling event is scheduled for the week of December 10, 2018.

APTIM and Textron appreciate the Department'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
Project Manager

CB:lmk

Attachment: Report

cc: Mr. Greg Simpson – Textron
Mr. Stanley Radon – NYSDEC
Mr. Stephen Lawrence – NYSDOH
Ms. Charlotte Bethoney – NYSDOH
File



BIOREMEDIATION PROGRAM STATUS REPORT – JUNE 2018

*Former Bell Aerospace Facility
Wheatfield, New York*

Prepared for:

Textron Inc.
40 Westminster Street
Providence, Rhode Island 02903-6028

Prepared by:

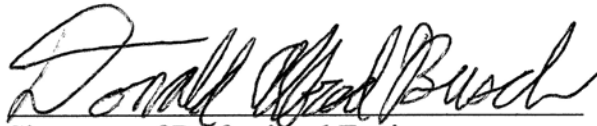
Aptim Engineering New York, P.C.
13 British American Boulevard
Latham, New York 12110-1405

Project No. 631232612
September 2018
Revised November 2018

Certification

I certify that I am a New York State-registered Professional Engineer and that this project prepared for Textron Inc. at the former Bell Aerospace Facility in Niagara County, Wheatfield, New York, is in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).

Donald Alfred Busch
Printed Name of Professional Engineer


Signature of Professional Engineer

Registration Number: 066655
State: New York

Date: 11/29/2018



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List of Acronyms & Abbreviations

µg/L	micrograms per liter
3DME®	3D Microemulsion® Factory Emulsified
APTIM	Aptim Engineering New York, P.C.
COC	constituent of concern
CRS®	Chemical Reducing Solution®
CVOC	chlorinated volatile organic compound
DCE	dichloroethene
mg/L	milligram per liter
NYSDEC	New York State Department of Environmental Conservation
TCE	trichloroethene
Textron	Textron Inc.
USEPA	U.S. Environmental Protection Agency
VOC	volatile organic compound

1.0 Introduction

Aptim Engineering New York, P.C. (APTIM) has prepared this Bioremediation Program Status Report for the former Bell Aerospace Facility in Wheatfield, New York (the site) on behalf of Textron Inc. (Textron). The site location and study area are shown in Figure 1.

The objectives of the bioremediation program include the following:

1. To accelerate the anaerobic degradation of dissolved-phase chlorinated volatile organic compounds (CVOCs) through the addition of a commercially available carbon substrate, an iron-based product, and a microbial culture
2. To facilitate permanent shutdown of the groundwater extraction system within the Zone 1 water-bearing unit

The targeted area for this treatment program is the Zone 1 fractured-rock water-bearing unit within the capture area of the existing On-Site Groundwater Treatment System (north of Niagara Falls Boulevard and west of Walmore Road). Attainment of these objectives is measured via the reduction of the CVOC groundwater concentrations in selected Zone 1 monitoring wells.

2.0 *Bioremediation Program Overview*

Implementation of in situ bioremediation treatment to enhance the degradation of dissolved-phase CVOCs was completed adjacent to the former Neutralization Pond and the on-site area extending hydraulically downgradient to the south. During the degradation process, called reductive dechlorination, the chlorinated ethene or trichloroethene (TCE) serves as an electron acceptor, and chlorine atoms are sequentially replaced by protons to yield cis-1,2-dichloroethene (DCE), vinyl chloride, and ethene as daughter products. A common observation is that TCE is reductively dechlorinated under relatively mild reducing conditions (e.g., sulfate-reducing conditions), whereas reductive dechlorination of cis-1,2-DCE and vinyl chloride requires increasingly stronger reducing conditions (e.g., methanogenic conditions). This process is detailed in Appendix A.

The groundwater treatment area encompasses approximately 300,000 square feet and includes the injection of the following products in to the Zone 1 bedrock:

- 3D Microemulsion[®] (3DME[®]) – a commercially available electron donor source to support and promote anaerobic biodegradation of CVOCs
- Chemical Reducing Solution[®] (CRS[®]) – an iron-based amendment to stimulate abiotic degradation of CVOCs
- A Dechlorinating Culture (SDC-9TM) – a reductive dechlorination microbial culture proven to biodegrade chlorinated CVOCs; added to supplement the naturally occurring bacterial population

2.1 *Implementation of Field Activities*

Field activities in support of the Bioremediation Work Plan began on October 6, 2017. A utility location survey was conducted around the proposed injection wells and sanitary sewer line along Walmore Road prior to intrusive activities.

Five new injection wells designated 17-01(1), 17-02(1), 17-03(1), 17-04(1), and 17-05(1) were installed into the Zone 1 bedrock and one existing location (87-11(1)) was repaired between October 9 and October 19, 2017, as shown on Figure 2.

On October 23, 2017, the five newly installed injection points, the repaired well, and four additional wells were surveyed by a New York State licensed surveyor for location and elevation data.

The On-Site Groundwater Treatment System was taken off line at 9:45 a.m. on October 30, 2017. All of the electronic equipment, including pumps, flow meters, and level sensors, were removed from the six extraction wells.

Groundwater samples were collected for baseline data from each of the new injection points during the week of November 13, 2017 and submitted for laboratory analysis of CVOCs using U.S. Environmental Protection Agency (USEPA) Method 8260B. The results of this sampling event are presented in Table 1.

The injection of the groundwater amendments was completed by Regensis Remediation Services in two phases. The first phase was conducted between November 27 and December 5, 2017 and the second phase was conducted between December 11 and December 20, 2017. A total of 36,000 pounds of 3DME[®], 18,000 pounds of CRS[®], and 45 liters of bioaugmentation culture SDC-9[™] was injected into 10 locations as shown on Figure 2. Injection pressures ranged from 0 to 50 pounds per square inch, and flow rates were maintained between 5 and 16 gallons per minute.

Six of the 11 injection locations received the prescribed amount of amendments (4,151 total gallons containing 3,272 pounds of 3DME[®], 1,636 pounds of CRS[®], and 4.1 liters of SDC-9[™]). Table 2 summarizes the material and rates applied at each injection location. Three locations were unable to accept the full amount of material due to proximity and “short circuited” into the sanitary sewer line along Walmore Road. While injecting into 17-01(1) and 87-04(1), amendments were observed in the sanitary sewer. To stop the flow into the sanitary sewer, the flow rates were reduced; however, breakthrough continued and the injections at these two wells were ceased. The injection was not attempted at 87-10(1), which is located closer to the sanitary sewer. The amendments not injected into these three locations were injected into 17-02(1) and 17-04(1); these locations were selected based on elevated baseline contaminant concentrations, position within the plume, and ability to accept the additional material. One day after completion of the injection, all of the wells in the monitoring network were gauged for depth to water and to note if any of the amendments were visible. Figure 3 shows that the amendments were observed in seven of the monitoring wells and had achieved the planned lateral distribution through the Zone 1.

2.2 *Performance Groundwater Monitoring*

Groundwater samples have been collected from the bioremediation monitoring well network as shown in Table 3 in January, February, March, and June 2018. Groundwater samples were stored on ice and transported to ALS Environmental’s laboratory in Rochester, New York, for the following analyses:

- Volatile organic compounds (VOCs) via USEPA Method 8260B
- Total organic carbon via USEPA Method 5310C
- Volatile fatty acids via USEPA Method 8015 (modified)
- Ethene via USEPA Method RSK 175
- Ethane via USEPA Method RSK 175
- Methane via USEPA Method RSK 175
- Carbon dioxide via USEPA Method SM 4500

- Ferrous iron via USEPA Method 3500 FE D
- Sulfate via USEPA SW-846 Method 9056A
- Chloride via USEPA SW-846 Method 9056A
- Nitrate via USEPA SW-846 Method 9056A

The results of these analyses are presented in Table 4. Copies of the laboratory analytical data packages from these sampling events have been included as Appendix B.

Additionally, groundwater quality parameters (dissolved oxygen, oxidation-reduction potential, conductivity, temperature, and pH) were measured in the field during the purging process to aid in evaluating the geochemistry of the groundwater in the treatment area. The field measurements are presented on Table 5 and are discussed in the following section.

A summary of the groundwater elevations collected during the bioremediation program has been included on Table 6. A site-wide groundwater water contour map was constructed as part of the ongoing groundwater program under the Order of Consent. This map has been included as Figure 4 to illustrate the groundwater flow across the entire site. The groundwater elevation was unusually elevated due to high amounts of rainfall prior to the gauging event (April 18 and 19, 2018). The Niagara Falls International Airport, adjacent to the site, recorded a total of 2.03 inches of precipitation during the preceding week.

Niagara Falls International Airport (KIAG)	
Date	Precipitation (Inches)
4/11/18	0.00
4/12/18	0.04
4/13/18	0.00
4/14/18	0.25
4/15/18	0.56
4/16/18	1.16
4/17/18	0.02

The field and analytical data have been plotted on graphs to track and illustrate their trends throughout the duration of the bioremediation program. These graphs are included as Appendix C.

The contaminant concentrations have been converted to a molar basis and plotted in bar graphs demonstrating complete dechlorination of TCE to the final daughter products ethene and ethane. These graphs provide evidence that the in situ bioremediation program is reducing chlorinated

ethenes as expected in wells that have been influenced by the amendment injections. These graphs are included as Appendix D.

These data have been presented to the New York State Department of Environmental Conservation Department (NYSDEC) following each of the sampling events.

3.0 Summary and Recommendations

3.1 Summary

This status report represents the initial six months of the Bioremediation Program. To reduce CVOCs in the groundwater, bioremediation amendments have been injected to enhance their degradation. The decrease in TCE and increase in degradation products indicate that anaerobic reductive dechlorination of the targeted CVOCs is occurring. The groundwater geochemistry data also indicate that conditions are favorable for reductive dechlorination and degradation of CVOCs.

At this time, 12 of the 18 monitoring locations show decreases in total VOCs. The decreases range from 14.9 percent (87-09(1)) to 99.6 percent (89-15(1)). At 89-15(1), the total VOCs decreased from 268,160 micrograms per liter ($\mu\text{g/L}$) to 1,065 $\mu\text{g/L}$, and further reductions are expected in the future. This well is in the monitoring program and shows the largest decrease in total VOCs at the site. The calculation does not take into account the single data point in 11/14/2017 data and looks at the decreases in each well over time. The largest decrease in VOCs at the site was observed at this well. Since the injection, an increase in ethene has been observed, a further indication that reductive dechlorination is occurring.

Total VOCs increased in six monitoring locations and range from 3 percent (87-17(1)) to 166 percent (89-10(1)). Initially, and after in situ injection, an increase in contaminants is often observed due to enhanced dissolution from the aquifer material, making it available for treatment. At each of these locations, increases in ethene and ethane were also observed, which indicate that complete reductive dechlorination is occurring. The increase in methane observed in these wells also suggests that the groundwater is favorable for reductive dechlorination. At most of the locations where an increase in total VOCs has been observed, these increases are primarily due to biological degradation products of TCE.

The groundwater geochemistry data also indicate that conditions are favorable for reductive dechlorination, including a near-neutral pH and low oxidation-reduction potential as shown on the graphs in Appendix C.

As TCE is being reduced to daughter products, the plume areas are decreasing, as shown on Figures 5 and 6. Figure 5 shows the plume configuration using the baseline data, collected prior to the injections, and Figure 6 is based upon the June 2018 sampling data. The size and intensity of the plume within the treatment area has decreased since the initiation of the bioremediation program.

The final daughter product of TCE degradation is ethene and ethane (Appendix A), and Figures 7 and 8 show the increases of ethene within the treatment area. Figure 7 shows the ethene

concentrations prior to the initiation of the bioremediation program and Figure 8 is from the June 2018 sampling event. The increase in ethene between the baseline and the June 2018 sampling event indicates that complete reductive dechlorination is occurring.

Along with groundwater constituents of concern (COCs), geochemical parameters have also been evaluated to determine if the groundwater conditions are favorable for reductive dechlorination. During the performance sampling events, dissolved oxygen concentrations were above 0.5 milligram per liter (mg/L), suggesting that the groundwater is aerobic, which is not favorable for reductive dechlorination. However, the samples have been collected using bailers which inherently introduce oxygen, and during future sampling events, low flow sampling is recommended to collect more representative samples. The oxygen reduction potential indicates the reducing conditions of the aquifer, and these values have been below -50 millivolts, which indicates anaerobic/reducing conditions.

Reductive dechlorination is an anaerobic process where the site COCs are electron acceptors and the carbon source 3DME[®] is the electron donor. To determine if the groundwater conditions are favorable for the reduction of site contaminants, groundwater analyses were conducted for competing electron acceptors, organic carbon, and the carbon breakdown products, fatty acids. To evaluate if the amendment 3DME[®] has been distributed into the subsurface and throughout the site, the groundwater was analyzed for total organic carbon and fatty acids. Total organic carbon and the fatty acids, including propionic acid, were detected above background levels in many of the monitoring wells, which indicates that the amendments were distributed as expected.

As groundwater becomes anaerobic, microbes sequentially use the electron acceptors, oxygen, nitrate, iron, sulfate, and finally the site contaminants. During performance monitoring, groundwater was analyzed for the electron acceptors to determine if they may be inhibiting the degradation of site contaminants. Nitrate levels are below 1.0 mg/L and, therefore, will not inhibit the reduction of COCs.

During the injections, CRS[®], a ferrous iron solution, was added to the amendment mixture to enhance abiotic degradation by binding to reduced sulfide. Also, as the groundwater becomes more reducing, naturally occurring ferric iron is reduced to ferrous iron. During the post-injection sampling, ferrous iron was analyzed to aid in determining CRS[®] distribution and geochemical conditions. The increases in ferrous iron indicate that CRS[®] has been distributed and reducing conditions exist.

Sulfate reducing conditions are favorable for the anaerobic degradation of the site COCs. The elevated levels of sulfate detected at the site indicate that these conditions do not exist, and sulfate may compete with reduction of the site COCs. Although sulfate may compete with the site COCs

as an electron acceptor, complete reduction does occur. The presence of the degradation daughter products vinyl chloride and ethene indicates that complete reductive dechlorination is occurring.

3.2 Recommendations

3.2.1 Remainder of 2018

As discussed during the meeting at the site on September 12, 2018, the September and December sampling events will be completed using low flow sampling protocols and ferrous iron analysis will not be performed. The 10 injection wells will be sampled and analyzed for VOCs as part of the December 2018 sampling event. At the recommendation of the NYSDEC, Monitoring Wells 87-10(1), 87-18(1), and 96-01(1) will also be added to the December sampling event. Additionally, at the NYSDEC's request, attempts will be made to collect a groundwater sample from Piezometer 86-23(B) which was installed during the Phase II Investigation at the facility between December 17, 1986 and February 4, 1987. According to the construction logs for this location, the "B" piezometer is set in the Zone 1 bedrock.

3.2.2 On-Site Extraction System Cessation Extension Request – 2019

Due to the positive results obtained during the initial six months of the bioremediation program, Textron requests approval to keep the On-Site extraction system in an idle mode through 2019 in order to collect additional data. Based on the current analytical results, groundwater treatment using 3DME[®], ferrous iron, and SDC-9TM continues to accelerate the degradation of dissolved phase VOCs in the Zone 1 aquifer. If data collected in 2019 continue to indicate bioremediation activities are successful, Textron anticipates submitting a request in late 2019 to permanently end On-Site groundwater extraction activities.

During 2019, groundwater monitoring will be completed in June and December. No changes are proposed to the groundwater monitoring network in 2019, but the list of analyses will be reduced to the following:

- VOCs via USEPA Method 8260B
- Total organic carbon via USEPA Method 5310C
- Ethene via USEPA Method RSK 175
- Ethane via USEPA Method RSK 175
- Methane via USEPA Method RSK 175
- Sulfate via USEPA SW-846 Method 9056A
- Chloride via USEPA SW-846 Method 9056A
- Nitrate via USEPA SW-846 Method 9056A

Low flow sampling protocols will be incorporated into the program to ensure more accurate results. Groundwater quality parameters (dissolved oxygen, oxidation-reduction potential,

conductivity, temperature, and pH) will continue to be collected in the field. The bioremediation program is summarized on Table 7.

A summary report detailing all analytical results and recommendations for the continuation of the program will be submitted to the NYSDEC at the completion of the 2019 extension period. A brief communication containing the results of June 2019 sampling will be submitted to the NYSDEC.

Tables

Table 1
Summary of Baseline Groundwater Analytical Data
Former Bell Aerospace
Textron Inc., Wheatfield, New York

SAMPLE LOCATION	Groundwater Protection Standard (µg/L)	87-01(1)	87-04(1)	87-05(1)	87-09(1)
SAMPLE DATE		5/23/2017	5/22/2017	5/23/2017	5/23/2017
<i>VOCs by USEPA Method 8260</i>					
Chloromethane	5*	2.0 U	2.0 U	50 U	2.0 U
Vinyl chloride	2	84	210	460	190
Chloroethane	5*	2.0 U	2.0 U	50 U	2.0 U
Bromomethane	5*	2.0 U	2.0 U	50 U	2.0 U
1,1-Dichloroethene	5*	2.6	2.9	50 U	1.5 J
Acetone	50	10 U	10.0 U	250 U	4.1 J
Carbon disulfide	60	2.0 U	2.0 U	50 U	2.0 U
Methylene chloride	5*	2.0 U	31	2,100	2.0 U
trans-1,2-Dichloroethene	5*	6.8	3.6	50 U	1.4 J
1,1-Dichloroethane	5*	5.6	2.9	42 J	16.0
cis-1,2-Dichloroethene	5*	690 D	290	6,900	150
2-Butanone	50	10 U	10 U	250 U	10 U
Chloroform	7	1.1 J	0.80 J	50 U	2.0 U
1,1,1-Trichloroethane	5*	15	2.0 U	140	85
Carbon tetrachloride	5	2.0 U	2.0 U	50 U	2.0 U
Benzene	1	2.0 U	2.0 U	50 U	2.0 U
1,2-Dichloroethane	0.6	2.0 U	2.0 U	50 U	2.0 U
Trichloroethene	5*	110	36	1,300	1.7 J
1,2-Dichloropropane	1	2.0 U	2.0 U	50 U	2.0 U
Bromodichloromethane	50	2.0 U	2.0 U	50 U	2.0 U
cis-1,3-Dichloropropene	0.4**	2.0 U	2.0 U	50 U	2.0 U
4-Methyl-2-pentanone	No Given Value	10 U	10 U	250 U	10 U
Toluene	5*	2.0 U	2.0 U	12 J	2.0 U
trans-1,3-Dichloropropene	0.4**	2.0 U	2.0 U	50 U	2.0 U
1,1,2-Trichloroethane	1	2.0 U	2.0 U	50 U	2.0 U
Tetrachloroethene	5*	2.0 U	2.0 U	50 U	2.0 U
2-Hexanone	50	10 U	10 U	250 U	10 U
Dibromochloromethane	50	2.0 U	2.0 U	50 U	2.0 U
Chlorobenzene	5*	2.0 U	2.0 U	50 U	2.0 U
Ethylbenzene	5*	2.0 U	2.0 U	50 U	2.0 U
m/p-Xylenes	5*	4.0 U	4.0 U	100 U	4.0 U
o-Xylene	5*	2.0 U	2.0 U	50 U	2.0 U
Styrene	5*	2.0 U	2.0 U	50 U	2.0 U
Bromoform	50	2.0 U	2.0 U	50 U	2.0 U
1,1,2,2-Tetrachloroethane	5*	2.0 U	2.0 U	50 U	2.0 U

See notes at end of table.

Table 1
Summary of Baseline Groundwater Analytical Data
Former Bell Aerospace
Textron Inc., Wheatfield, New York

SAMPLE LOCATION	Groundwater Protection Standard (µg/L)	87-10(1)	87-11(1)	87-12(1)	87-13(1)
SAMPLE DATE		5/23/2017	11/16/2017	5/23/2017	5/22/2017
<i>VOCs by USEPA Method 8260</i>					
Chloromethane	5*	5.0 U	50 U	10 U	500 U
Vinyl chloride	2	12	1,500	1,700	3,000
Chloroethane	5*	5.0 U	50 U	10 U	500 U
Bromomethane	5*	5.0 U	50 U	10 U	500 U
1,1-Dichloroethene	5*	5.0 U	50 U	7.2 J	500 U
Acetone	50	6.5 J	250 U	50 U	2,500 U
Carbon disulfide	60	5.0 U	50 U	10 U	500 U
Methylene chloride	5*	5.0 U	11,000 D	10 U	94,000 D
trans-1,2-Dichloroethene	5*	5.0 U	50 U	8.7 J	500 U
1,1-Dichloroethane	5*	2.3 J	33 J	19	320 J
cis-1,2-Dichloroethene	5*	130	2,500	2,200 D	80,000
2-Butanone	50	25 U	250 U	50 U	2,500 U
Chloroform	7	1.4 J	18 J	10 U	1,200
1,1,1-Trichloroethane	5*	3.6 J	53	30	1,100
Carbon tetrachloride	5	5.0 U	50 U	10 U	500 U
Benzene	1	5.0 U	50 U	10 U	500 U
1,2-Dichloroethane	0.6	5.0 U	50 U	10 U	500 U
Trichloroethene	5*	890	76	14	40,000
1,2-Dichloropropane	1	5.0 U	50 U	10 U	500 U
Bromodichloromethane	50	5.0 U	50 U	10 U	230 J
cis-1,3-Dichloropropene	0.4**	5.0 U	50 U	10 U	500 U
4-Methyl-2-pentanone	No Given Value	25 U	250 U	50 U	2,500 U
Toluene	5*	5.0 U	50 U	10 U	500 U
trans-1,3-Dichloropropene	0.4**	5.0 U	50 U	10 U	500 U
1,1,2-Trichloroethane	1	5.0 U	50 U	10 U	500 U
Tetrachloroethene	5*	5.0 U	50 U	10 U	500 U
2-Hexanone	50	25 U	250 U	50 U	2,500 U
Dibromochloromethane	50	5.0 U	50 U	10 U	500 U
Chlorobenzene	5*	5.0 U	50 U	10 U	500 U
Ethylbenzene	5*	5.0 U	50 U	10 U	500 U
m/p-Xylenes	5*	10.0 U	100 U	20 U	1,000 U
o-Xylene	5*	5.0 U	50 U	10 U	500 U
Styrene	5*	5.0 U	50 U	10 U	500 U
Bromoform	50	5.0 U	50 U	10 U	500 U
1,1,2,2-Tetrachloroethane	5*	5.0 U	50 U	10 U	500 U

See notes at end of table.

Table 1
Summary of Baseline Groundwater Analytical Data
Former Bell Aerospace
Textron Inc., Wheatfield, New York

SAMPLE LOCATION	Groundwater Protection Standard (µg/L)	87-14(1)	87-15(1)	87-18(1)	89-12(1)
SAMPLE DATE		5/22/2017	5/22/2017	5/22/2017	5/23/2017
<i>VOCs by USEPA Method 8260</i>					
Chloromethane	5*	250 U	5.0 U	5.0 U	25 U
Vinyl chloride	2	2,900	180	510	270
Chloroethane	5*	250 U	5.0 U	5.0 U	25 U
Bromomethane	5*	250 U	5.0 U	5.0 U	25 U
1,1-Dichloroethene	5*	250 U	5.0 U	5.0 U	25 U
Acetone	50	320 J	25 U	6.7 J	36 J
Carbon disulfide	60	250 U	6.5	5.0 U	25 U
Methylene chloride	5*	22,000	4,300 D	5.0 U	25 U
trans-1,2-Dichloroethene	5*	250 U	2.0 J	2.6 J	19 J
1,1-Dichloroethane	5*	170 J	3.9 J	17.0	9.0 J
cis-1,2-Dichloroethene	5*	16,000	390	620	4,300 D
2-Butanone	50	1,300 U	25 U	25 U	130 U
Chloroform	7	450	5.0 U	5.0 U	25 U
1,1,1-Trichloroethane	5*	390	5.0 U	27	22 J
Carbon tetrachloride	5	250 U	5.0 U	5.0 U	25 U
Benzene	1	250 U	5.0 U	5.0 U	25 U
1,2-Dichloroethane	0.6	250 U	5.0 U	5.0 U	25 U
Trichloroethene	5*	32,000	10	3.9 J	490
1,2-Dichloropropane	1	250 U	5.0 U	5.0 U	25 U
Bromodichloromethane	50	250 U	5.0 U	5.0 U	25 U
cis-1,3-Dichloropropene	0.4**	250 U	5.0 U	5.0 U	25 U
4-Methyl-2-pentanone	No Given Value	1,300 U	25 U	25 U	130 U
Toluene	5*	250 U	5.0 U	5.0 U	25 U
trans-1,3-Dichloropropene	0.4**	250 U	5.0 U	5.0 U	25 U
1,1,2-Trichloroethane	1	250 U	5.0 U	5.0 U	25 U
Tetrachloroethene	5*	250 U	5.0 U	5.0 U	25 U
2-Hexanone	50	1,300 U	25 U	25 U	130 U
Dibromochloromethane	50	250 U	5.0 U	5.0 U	25 U
Chlorobenzene	5*	250 U	5.0 U	5.0 U	25 U
Ethylbenzene	5*	250 U	5.0 U	5.0 U	25 U
m/p-Xylenes	5*	500 U	10 U	10 U	50 U
o-Xylene	5*	250 U	5.0 U	5.0 U	25 U
Styrene	5*	250 U	5.0 U	5.0 U	25 U
Bromoform	50	250 U	5.0 U	5.0 U	25 U
1,1,2,2-Tetrachloroethane	5*	250 U	5.0 U	5.0 U	25 U

See notes at end of table.

Table 1
Summary of Baseline Groundwater Analytical Data
Former Bell Aerospace
Textron Inc., Wheatfield, New York

SAMPLE LOCATION	Groundwater Protection Standard (µg/L)	96-01(1)	17-01(1)	17-02(1)	17-03(1)
SAMPLE DATE		5/23/2017	11/13/2017	11/13/2017	11/13/2017
<i>VOCs by USEPA Method 8260</i>					
Chloromethane	5*	5.0 U	5.0 U	25 U	5.0 U
Vinyl chloride	2	700	510	270	700
Chloroethane	5*	5.0 U	5.0 U	25 U	5.0 U
Bromomethane	5*	5.0 U	5.0 U	25 U	5.0 U
1,1-Dichloroethene	5*	5.0 U	5.0 U	25 U	5.0 U
Acetone	50	25 U	6.7 J	36 J	25 U
Carbon disulfide	60	5.0 U	5.0 U	25 U	5.0 U
Methylene chloride	5*	21	5.0 U	25 U	21
trans-1,2-Dichloroethene	5*	4.4 J	2.6 J	19 J	4.4 J
1,1-Dichloroethane	5*	29.0	17	9.0 J	29
cis-1,2-Dichloroethene	5*	710	620	4,300 D	710
2-Butanone	50	25 U	25 U	130 U	25 U
Chloroform	7	5.0 U	5.0 U	25 U	5.0 U
1,1,1-Trichloroethane	5*	48	27	22 J	48
Carbon tetrachloride	5	5.0 U	5.0 U	25 U	5.0 U
Benzene	1	5.0 U	5.0 U	25 U	5.0 U
1,2-Dichloroethane	0.6	5.0 U	5.0 U	25 U	5.0 U
Trichloroethene	5*	17	3.9 J	490	17
1,2-Dichloropropane	1	5.0 U	5.0 U	25 U	5.0 U
Bromodichloromethane	50	5.0 U	5.0 U	25 U	5.0 U
cis-1,3-Dichloropropene	0.4**	5.0 U	5.0 U	25 U	5.0 U
4-Methyl-2-pentanone	No Given Value	25 U	25 U	130 U	25 U
Toluene	5*	5.0 U	5.0 U	25 U	5.0 U
trans-1,3-Dichloropropene	0.4**	5.0 U	5.0 U	25 U	5.0 U
1,1,2-Trichloroethane	1	5.0 U	5.0 U	25 U	5.0 U
Tetrachloroethene	5*	5.0 U	5.0 U	25 U	5.0 U
2-Hexanone	50	25 U	25 U	130 U	25 U
Dibromochloromethane	50	5.0 U	5.0 U	25 U	5.0 U
Chlorobenzene	5*	5.0 U	5.0 U	25 U	5.0 U
Ethylbenzene	5*	5.0 U	5.0 U	25 U	5.0 U
m/p-Xylenes	5*	10 U	10 U	50 U	10 U
o-Xylene	5*	5.0 U	5.0 U	25 U	5.0 U
Styrene	5*	5.0 U	5.0 U	25 U	5.0 U
Bromoform	50	5.0 U	5.0 U	25 U	5.0 U
1,1,2,2-Tetrachloroethane	5*	5.0 U	5.0 U	25 U	5.0 U

See notes at end of table.

Table 1
Summary of Baseline Groundwater Analytical Data
Former Bell Aerospace
Textron Inc., Wheatfield, New York

SAMPLE LOCATION	Groundwater Protection Standard (µg/L)	17-04(1)	17-05(1)	B-10a(1)	MOOG-C
SAMPLE DATE		11/15/2017	11/15/2017	5/23/2017	5/23/2017
<i>VOCs by USEPA Method 8260</i>					
Chloromethane	5*	500 U	250 U	500 U	1.0 U
Vinyl chloride	2	1,400	930	430 J	1.0 U
Chloroethane	5*	500 U	250 U	500 U	1.0 U
Bromomethane	5*	500 U	250 U	500 U	1.0 U
1,1-Dichloroethene	5*	440 J	250 U	310 J	1.0 U
Acetone	50	2,500 U	1,300 U	2,500 U	1.0 U
Carbon disulfide	60	140 J	250 U	500 U	1.0 U
Methylene chloride	5*	180,000 D	14,000	3,300	1.0 U
trans-1,2-Dichloroethene	5*	500 U	250 U	500 U	1.0 U
1,1-Dichloroethane	5*	600	79 J	350 J	1.7
cis-1,2-Dichloroethene	5*	30,000	4,300	20,000	17
2-Butanone	50	2,500 U	1,300 U	2,500 U	5.0 U
Chloroform	7	940	400	980	0.98 J
1,1,1-Trichloroethane	5*	2,900	900	780	2.0
Carbon tetrachloride	5	500 U	250 U	500 U	1.0 U
Benzene	1	500 U	250 U	500 U	1.0 U
1,2-Dichloroethane	0.6	500 U	250 U	500 U	1.0 U
Trichloroethene	5*	170,000 E	32,000	58,000	21
1,2-Dichloropropane	1	500 U	250 U	500 U	1.0 U
Bromodichloromethane	50	500 U	250 U	210 J	1.0 U
cis-1,3-Dichloropropene	0.4**	500 U	250 U	500 U	1.0 U
4-Methyl-2-pentanone	No Given Value	2,500 U	1,300 U	2,500 U	5.0 U
Toluene	5*	130 J	250 U	500 U	1.0 U
trans-1,3-Dichloropropene	0.4**	500 U	250 U	500 U	1.0 U
1,1,2-Trichloroethane	1	500 U	250 U	500 U	1.0 U
Tetrachloroethene	5*	500 U	250 U	500 U	1.0 U
2-Hexanone	50	2,500 U	1,300 U	2,500 U	5.0 U
Dibromochloromethane	50	500 U	250 U	500 U	1.0 U
Chlorobenzene	5*	500 U	250 U	500 U	1.0 U
Ethylbenzene	5*	500 U	250 U	500 U	1.0 U
m/p-Xylenes	5*	1,000 U	500 U	1,000 U	2.0 U
o-Xylene	5*	500 U	250 U	500 U	1.0 U
Styrene	5*	500 U	250 U	500 U	1.0 U
Bromoform	50	500 U	250 U	500 U	1.0 U
1,1,2,2-Tetrachloroethane	5*	500 U	250 U	500 U	1.0 U

See notes at end of table.

Table 1
Summary of Baseline Groundwater Analytical Data
Former Bell Aerospace
Textron Inc., Wheatfield, New York

SAMPLE LOCATION	Groundwater Protection Standard (µg/L)	TRIP BLANK
SAMPLE DATE		5/22/2017
<i>VOCs by USEPA Method 8260</i>		
Chloromethane	5*	1.0 U
Vinyl chloride	2	1.0 U
Chloroethane	5*	1.0 U
Bromomethane	5*	1.0 U
1,1-Dichloroethene	5*	1.0 U
Acetone	50	1.0 U
Carbon disulfide	60	1.0 U
Methylene chloride	5*	1.0 U
trans-1,2-Dichloroethene	5*	1.0 U
1,1-Dichloroethane	5*	1.0 U
cis-1,2-Dichloroethene	5*	1.0 U
2-Butanone	50	5.0 U
Chloroform	7	1.0 U
1,1,1-Trichloroethane	5*	1.0 U
Carbon tetrachloride	5	1.0 U
Benzene	1	1.0 U
1,2-Dichloroethane	0.6	1.0 U
Trichloroethene	5*	1.0 U
1,2-Dichloropropane	1	1.0 U
Bromodichloromethane	50	1.0 U
cis-1,3-Dichloropropene	0.4**	1.0 U
4-Methyl-2-pentanone	No Given Value	5.0 U
Toluene	5*	1.0 U
trans-1,3-Dichloropropene	0.4**	1.0 U
1,1,2-Trichloroethane	1	1.0 U
Tetrachloroethene	5*	1.0 U
2-Hexanone	50	5.0 U
Dibromochloromethane	50	1.0 U
Chlorobenzene	5*	1.0 U
Ethylbenzene	5*	1.0 U
m/p-Xylenes	5*	2.0 U
o-Xylene	5*	1.0 U
Styrene	5*	1.0 U
Bromoform	50	1.0 U
1,1,2,2-Tetrachloroethane	5*	1.0 U

See notes at end of table.

Table 1
Summary of Baseline Groundwater Analytical Data
Former Bell Aerospace
Textron Inc., Wheatfield, New York

Notes:

All concentrations reported in micrograms per liter ($\mu\text{g/L}$) or parts per billion (ppb).

* = The principal organic contaminant standard for groundwater of 5 $\mu\text{g/L}$ (described elsewhere in this table) applies to this substance.

** = Applies to the sum of cis- and trans-1,3-dichloropropene, CAS Nos. 10061-01-5 and 10061-02-6, respectively.

Shaded = Compound exceeds Groundwater Protection Standard.

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.

E = Compound exceeds the calibration range.

Table 2
Summary of Injection Log
Former Bell Aerospace
Textron Inc., Wheatfield, New York

Injection Well ID	Date	Time	Injection Depth (feet)	Injection Pressure (psi)	Flow Rate (gpm)	Volume of 3DME® Injected			Total Gallons Per Location	Pounds of 3DME® Injected Per Location	Liters of SDC-9™	Pounds of CRS®	Comments
						Beginning Flow Meter (gal)	Ending Flow Meter (gal)	Gallons Injected Per Interval					
17-03(1)	11/28/2017	15:23	23-33	6.0	9.9	0	500	500	4151	3272	4.1	1636	
		16:05		6.0	10.5	500	900	400					
	11/29/2017	7:36		10.0	12.5	900	1,600	700					
		8:35		8.0	15.2	1,600	2,600	1,000					
		9:55		8.0	13.2	2,600	3,300	700					
		10:52		8.0	15.5	3,300	4,050	750					
		11:40		8.0	16.0	4,050	4,151	101					
17-04(1)	11/29/2017	13:55	12.0	10.0	0	475	475	6179	4875	5.5	2452		
		14:35	34.0	11.1	475	900	425						
		13:30	22.0	11.0	900	1,200	300						
	11/30/2017	9:20	25.0	11.6	1,200	1,800	600						
		10:05	25.0	12.0	1,800	2,450	650						
		11:07	25.0	14.0	2,450	3,000	550						
		12:00	18.0	9.9	3,000	3,825	825						
		13:18	25.0	14.1	3,825	4,151	326						
	12/19/2017	11:25	12.0	10.5	4,151	4,750	599						
		12:30	16.0	10.9	4,750	5,100	350					Receive the remaining product from 87-04(1).	
		13:20	16.0	11.0	5,100	5,500	400						
		13:55	22.0	11.3	5,500	5,800	300						
		14:26	23.0	11.3	5,800	6,179	379						
87-14(1)	11/30/2017	14:15	12.0	10.5	0	420	420	4151	3272	4.1	1636		
		13:10	10.0	7.0	420	649	229					Pump is cavatating. Cannot get high flow rate. Start slow and gradually increase pump speed.	
	12/1/2017	8:25	8.0	6.0	649	900	251						
		8:55	15.0	12.4	900	1,249	349						
		9:24	16.0	13.0	1,249	1,749	500						
		10:02	20.0	14.0	1,749	2,800	1,051						
		11:10	20.0	14.5	2,800	3,550	750						
		13:12	20.0	14.5	3,550	4,000	450						
		13:46	18.0	14.0	4,000	4,151	151						

Table 2
Summary of Injection Log
Former Bell Aerospace
Textron Inc., Wheatfield, New York

Injection Well ID	Date	Time	Injection Depth (feet)	Injection Pressure (psi)	Flow Rate (gpm)	Volume of 3DME® Injected			Total Gallons Per Location	Pounds of 3DME® Injected Per Location	Liters of SDC-9™	Pounds of CRS®	Comments
						Beginning Flow Meter (gal)	Ending Flow Meter (gal)	Gallons Injected Per Interval					
87-05(1)	12/1/2017	14:46	23-33	10.0	10.0	0	250	250	4151	3272	4.1	1636	
		15:12		15.0	15.5	250	900	650					
		15:55		14.0	15.3	900	1,200	300					
	12/2/2017	8:10		12.0	15.5	1,200	1,500	300					
		8:40		12.0	15.6	1,500	2,450	950					
		9:41		13.0	16.0	2,450	3,200	750					
		10:30		13.0	15.8	3,200	4,000	800					
		11:30		8.0	11.5	4,000	4,151	151					
17-01(1)	12/4/2017	8:45	23-33	38.0	10.2	0	375	375	1775	1400	4.1	700	
		9:30		37.0	11.0	375	600	225					
		10:20		28.0	10.0	600	1,000	400					
		10:50		38.0	10.0	1,000	1,300	300					
		11:05		38.0	10.0	1,300	1,775	475					
17-02(1)	12/4/2017	13:15	23-33	20.0	11.5	0	450	450	10678	8416	8.5	4240	
		14:00		20.0	11.5	450	900	450					
		14:45		25.0	12.0	900	1,500	600					
		15:40		25.0	13.0	1,500	2,000	500					
		16:10		25.0	13.0	2,000	2,500	500					
		16:30		25.0	13.0	2,500	3,000	500					
	12/5/2017	6:45	25.0	11.0	3,000	3,400	400						
		7:45	30.0	14.0	3,400	4,151	751						
	12/19/2017	15:20	12.0	10.0	4,151	4,400	249						
		15:45	20.0	12.0	4,400	4,700	300						
		16:10	22.0	12.0	4,700	5,000	300						
		16:55	24.0	14.0	5,000	5,351	351						
	12/20/2017	7:40	16.0	10.4	5,351	6,000	649						
		8:30	22.0	12.8	6,000	6,500	500						
		9:30	25.0	13.3	6,500	7,100	600						
		10:10	28.0	14.5	7,100	7,651	551						
		10:50	28.0	14.8	7,651	8,451	800						
		11:40	30.0	14.8	8,451	9,451	1,000						
12:57		30.0	15.1	9,451	10,200	749							
13:50	30.0	15.1	10,200	10,678	478								

Table 2
Summary of Injection Log
Former Bell Aerospace
Textron Inc., Wheatfield, New York

Injection Well ID	Date	Time	Injection Depth (feet)	Injection Pressure (psi)	Flow Rate (gpm)	Volume of 3DME® Injected			Total Gallons Per Location	Pounds of 3DME® Injected Per Location	Liters of SDC-9™	Pounds of CRS®	Comments
						Beginning Flow Meter (gal)	Ending Flow Meter (gal)	Gallons Injected Per Interval					
87-15(1)	12/12/2017	15:00	23-33	10.0	10.0	0	300	300	4151	3272	5.0	1636	
		15:30		20.0	13.6	300	750	450					
		16:00		20.0	13.5	750	1,200	450					
	12/13/2017	8:30		20.0	14.0	1,200	1,500	300					
		9:20		30.0	14.0	1,500	2,100	600					
		10:10		35.0	14.0	2,100	2,800	700					
		10:50		35.0	14.0	2,800	3,500	700					
		11:25		35.0	14.0	3,500	4,151	651					
17-05(1)	12/13/2017	13:15	30.0	8.0	0	350	350	4151	3272	4.1	1636		
		14:00	35.0	10.0	350	800	450						
		14:30	45.0	12.0	800	1,200	400						
		15:10	45.0	12.5	1,200	2,100	900						
	12/14/2017	8:22	55.0	10.0	2,100	2,625	525						
		9:20	55.0	10.0	2,625	3,150	525						
		10:09	25.0	9.8	3,150	3,600	450						
		11:00	25.0	9.9	3,600	4,151	551						
87-11(1)	12/14/2017	12:35	5.0	5.3	0	325	325	4151	3272	4.1	1636		
		13:31	8.0	10.0	325	600	275						
		14:10	8.0	10.0	600	1,200	600						
		15:00	8.0	10.0	1,200	1,800	600						
	12/18/2017	9:00	6.0	5.0	1,800	2,200	400						
		10:00	8.0	10.0	2,200	2,800	600						
		11:21	8.0	10.0	2,800	3,000	200						
		13:10	6.0	5.0	3,000	4,151	1,151						
													11:55 - (3,350 gallons total). Stop injecting due to product in sanitary sewer. Turn off pump for 30 min. Resume injection at a lower flow rate of 5 gpm.

Table 2
Summary of Injection Log
Former Bell Aerospace
Textron Inc., Wheatfield, New York

Injection Well ID	Date	Time	Injection Depth (feet)	Injection Pressure (psi)	Flow Rate (gpm)	Volume of 3DME® Injected			Total Gallons Per Location	Pounds of 3DME® Injected Per Location	Liters of SDC-9™	Pounds of CRS®	Comments
						Beginning Flow Meter (gal)	Ending Flow Meter (gal)	Gallons Injected Per Interval					
87-04(1)	12/18/2017	15:25	23-33	5.0	5.0	0	300	300	1200	1677	1.4	790	Inject with half amount of mix water.
	12/19/2017	8:30		5.0	5.0	300	600	300					11:10 - (1,200 gallons total). Stop injecting due to product in sanitary sewer.
		9:28		5.0	5.1	600	900	300					
		10:05		5.0	5.0	900	1,200	300					
87-10(1)	REMOVED FROM DESIGN - DID NOT INJECT INTO												
									Total Gallons:	Total Lbs. 3DME®:	Total Liters of SDC-9™:	Total Lbs. of CRS®:	
									44,738	36,000	45	18,000	

Table 3
Groundwater Monitoring Network
Former Bell Aerospace
Textron Inc., Wheatfield, New York

WELL NUMBER	GROUNDWATER SAMPLE
ZONE 1 MONITORING WELLS	
87-01(1)	X
87-02(1)	X
87-08(1)	X
87-09(1)	X
87-12(1)	X
87-13(1)	X
87-17(1)	X
87-20(1)	X
87-22(1)	X
89-10(1)	X
89-12(1)	X
89-15(1)	X
B-10A	X
B-14(1)	X
TOTAL ZONE 1 SAMPLES PER EVENT	14
ON-SITE EXTRACTION WELLS	
DW-9	X
DW-10	X
DW-11	X
DW-12	X
TOTAL ON-SITE EXTRACTION WELL SAMPLES PER EVENT	4
GRAND TOTAL SAMPLES PER EVENT	18

Table 4
Summary of Groundwater Laboratory Analytical Data
Former Bell Aerospace
Textron Inc., Wheatfield, New York

Constituents of Concern (Units)	Groundwater Protection Standard (µg/L)	87-01(1)								
		10/19/16	5/23/17	11/13/17	1/23/18	2/27/18	3/20/18	6/19/18	September	December
Volatile Organic Compounds (µg/L)										
Chloromethane	5*	5.0 U	2.0 U	5.0 U	10 U	2.0 U	1.0 U	1.0 U		
Vinyl chloride	2	96	84	330	320	210	150	300 D		
Chloroethane	5*	5.0 U	2.0 U	5.0 U	10 U	2.0 U	1.0 U	1.0 U		
Bromomethane	5*	5.0 U	2.0 U	5.0 U	10 U	2.0 U	1.0 U	1.0 U		
1,1-Dichloroethene	5*	5.0 U	2.6	7.0	10 U	2.0 U	1.0 U	1.9		
Acetone	50	7.5	10 U	6.5 J	10 U	16	7.1	5.0 U		
Carbon disulfide	60	5.0 U	2.0 U	5.0 U	10 U	140	32	8.5		
Methylene chloride	5*	5.0 U	2.0 U	16	16	96	29	6.3		
trans-1,2-Dichloroethene	5*	6.3	6.8	6.4	5.2 J	4.8	6.4	4.9		
1,1-Dichloroethane	5*	8.4	5.6	21	15	14	15	12		
cis-1,2-Dichloroethene	5*	640	690 D	1,600 D	1,200	290	58	520 D		
2-Butanone	50	25 U	2.0 U	25 U	50 U	6.8 J	3.8 J	5.0 U		
Chloroform	7	2.1	1.1 J	5.0 U	10 U	0.52 J	1.0 U	0.34 J		
1,1,1-Trichloroethane	5*	13	15	72	22	10	18	9.9		
Carbon tetrachloride	5	5.0 U	2.0 U	5.0 U	10 U	2.0 U	1.0 U	1.0 U		
Benzene	1	5.0 U	2.0 U	5.0 U	10 U	2.0 U	1.0 U	1.0 U		
1,2-Dichloroethane	0.6	5.0 U	2.0 U	5.0 U	10 U	2.0 U	1.0 U	1.0 U		
Trichloroethene	5*	120	110	54	23	9.3	3.7	98		
1,2-Dichloropropane	1	5.0 U	2.0 U	5.0 U	10 U	2.0 U	1.0 U	1.0 U		
Bromodichloromethane	50	5.0 U	2.0 U	5.0 U	10 U	2.0 U	1.0 U	1.0 U		
cis-1,3-Dichloropropene	0.4**	5.0 U	2.0 U	5.0 U	10 U	2.0 U	1.0 U	1.0 U		
4-Methyl-2-pentanone	No Given Value	25 U	10 U	25 U	50 U	10 U	5.0 U	5.0 U		
Toluene	5*	5.0 U	2.0 U	5.0 U	10 U	2.0 U	0.22 J	0.24 J		
trans-1,3-Dichloropropene	0.4**	5.0 U	2.0 U	5.0 U	10 U	2.0 U	1.0 U	1.0 U		
1,1,2-Trichloroethane	1	5.0 U	2.0 U	5.0 U	10 U	2.0 U	1.0 U	1.0 U		
Tetrachloroethene	5*	5.0 U	2.0 U	5.0 U	10 U	2.0 U	1.0 U	1.0 U		
2-Hexanone	50	25 U	10 U	25 U	50 U	10 U	5.0 U	5.0 U		
Dibromochloromethane	50	5.0 U	2.0 U	5.0 U	10 U	2.0 U	1.0 U	1.0 U		
Chlorobenzene	5*	5.0 U	2.0 U	5.0 U	10 U	2.0 U	1.0 U	1.0 U		
Ethylbenzene	5*	5.0 U	2.0 U	5.0 U	10 U	2.0 U	1.0 U	1.0 U		
m/p-Xylenes	5*	10 U	4.0 U	10 U	20 U	4.0 U	2.0 U	2.0 U		
o-Xylene	5*	5.0 U	2.0 U	5.0 U	10 U	2.0 U	1.0 U	1.0 U		
Styrene	5*	5.0 U	2.0 U	5.0 U	10 U	2.0 U	1.0 U	1.0 U		
Bromoform	50	5.0 U	2.0 U	5.0 U	10 U	2.0 U	1.0 U	1.0 U		
1,1,2,2-Tetrachloroethane	5*	5.0 U	2.0 U	5.0 U	10 U	2.0 U	1.0 U	1.0 U		
General Chemistry Parameters										
Iron, ferrous (mg/L)				0.51	0.40	0.14	0.10 U	0.24		
Chloride (mg/L)				142	406	780	584	266		
Total organic carbon (mg/L)				3.2	111	65.7	32.4	4.5		
Sulfate (mg/L)				875	205	18.8	176	360		
Nitrate as N (mg/L)				1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Methane (µg/L)				84	27	1.9	76	1,000		
Ethane (µg/L)				1.8	1.1	1.0 U	1.0 U	10 U		
Ethene (µg/L)				15	24	18	470 D	180		
Carbon dioxide (mg/L)				308	554	532	606	542		
Alkalinity, Total as CaCO3 (mg/L)				280	433	547	595	514		
Bicarbonate Alkalinity as CaCO3 (mg/L)				280	433	547	595	514		
Carbonate Alkalinity as CaCO3 (mg/L)				2.0 U	2.0 U	2.0 U	2.0 U	2.0 U		
Volatile Fatty Acids (mg/L)										
Lactic acid				1.0 U	2.0 U	1.0 U	1.0 U	1.0 U		
Acetic acid				1.0 U	210	130	59	1.0 U		
Propionic acid				1.0 U	16	3.0	1.0 U	1.0 U		
Butyric acid				2.0 U	4.3	5.5	2.0 U	2.0 U		
Pyruvic acid				0.50 U	1.0 U	0.50 U	0.50 U	0.50 U		

Table 4
Summary of Groundwater Laboratory Analytical Data
Former Bell Aerospace
Textron Inc., Wheatfield, New York

Constituents of Concern (Units)	Groundwater Protection Standard (µg/L)	87-02(1)							
		10/20/16	11/13/17	1/24/18	2/27/18	3/20/18	6/19/18	September	December
Volatile Organic Compounds (µg/L)									
Chloromethane	5*	50 U	5.0 U	25 U	10 U	20 U	1.0 U		
Vinyl chloride	2	330	160	210	530	1,100	85		
Chloroethane	5*	50 U	5.0 U	25 U	10 U	20 U	1.0 U		
Bromomethane	5*	50 U	5.0 U	25 U	10 U	20 U	1.0 U		
1,1-Dichloroethene	5*	50 U	5.0 U	25 U	6.5 J	20 U	1.0 U		
Acetone	50	250 U	25 U	130 U	50 U	100 U	3.3 J		
Carbon disulfide	60	50 U	5.0 U	25 U	21	28	19		
Methylene chloride	5*	220	3,000 D	800	220	34	1.7		
trans-1,2-Dichloroethene	5*	50 U	6.0	10 J	8.2 J	8.6 J	4.6		
1,1-Dichloroethane	5*	26 J	15	19 J	19	29	12		
cis-1,2-Dichloroethene	5*	5,100	1,700 D	3,400	2,800 D	2,100	50		
2-Butanone	50	250 U	25 U	130 U	50 U	100 U	5.0 U		
Chloroform	7	50 U	4.2 J	25 U	10 U	20 U	1.0 U		
1,1,1-Trichloroethane	5*	73	55	31	16	27	18		
Carbon tetrachloride	5	50 U	5.0 U	25 U	10 U	20 U	1.0 U		
Benzene	1	50 U	5.0 U	25 U	10 U	20 U	1.0 U		
1,2-Dichloroethane	0.6	50 U	5.0 U	25 U	10 U	20 U	1.0 U		
Trichloroethene	5*	3,900	690	350	63	88	3.9		
1,2-Dichloropropane	1	50 U	5.0 U	25 U	10 U	20 U	1.0 U		
Bromodichloromethane	50	50 U	5.0 U	25 U	10 U	20 U	1.0 U		
cis-1,3-Dichloropropene	0.4**	50 U	5.0 U	25 U	10 U	20 U	1.0 U		
4-Methyl-2-pentanone	No Given Value	250 U	25 U	130 U	50 U	100 U	5.0 U		
Toluene	5*	50 U	5.0 U	25 U	10 U	20 U	0.22 J		
trans-1,3-Dichloropropene	0.4**	50 U	5.0 U	25 U	10 U	20 U	1.0 U		
1,1,2-Trichloroethane	1	50 U	5.0 U	25 U	10 U	20 U	1.0 U		
Tetrachloroethene	5*	50 U	5.0 U	25 U	10 U	20 U	1.0 U		
2-Hexanone	50	250 U	25 U	130 U	50 U	100 U	5.0 U		
Dibromochloromethane	50	50 U	5.0 U	25 U	10 U	20 U	1.0 U		
Chlorobenzene	5*	50 U	5.0 U	25 U	10 U	20 U	1.0 U		
Ethylbenzene	5*	50 U	5.0 U	25 U	10 U	20 U	1.0 U		
m/p-Xylenes	5*	100 U	10 U	50 U	20 U	40 U	2.0 U		
o-Xylene	5*	50 U	5.0 U	25 U	10 U	20 U	1.0 U		
Styrene	5*	50 U	5.0 U	25 U	10 U	20 U	1.0 U		
Bromoform	50	50 U	5.0 U	25 U	10 U	20 U	1.0 U		
1,1,2,2-Tetrachloroethane	5*	50 U	5.0 U	25 U	10 U	20 U	1.0 U		
General Chemistry Parameters									
Iron, ferrous (mg/L)			0.10 U	54.6	23.1	3.3	4.55		
Chloride (mg/L)			177	477	619	504	330		
Total organic carbon (mg/L)			2.9	241	143	69	6.8		
Sulfate (mg/L)			394	63.1	31.9	234	360		
Nitrate as N (mg/L)			1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Methane (µg/L)			65	63	60	120	58		
Ethane (µg/L)			1.0 U	1.8	1.2	5.2 U	5.2 U		
Ethene (µg/L)			9.8	20	150	330	260		
Carbon dioxide (mg/L)			298	764	648	703	417		
Alkalinity, Total as CaCO ₃ (mg/L)			290	562	589	621	406		
Bicarbonate Alkalinity as CaCO ₃ (mg/L)			290	562	589	621	406		
Carbonate Alkalinity as CaCO ₃ (mg/L)			2.0 U	2.0 U	2.0 U	2.0 U	2.0 U		
Volatile Fatty Acids (mg/L)									
Lactic acid			1.0 U	2.5 U	2.0 U	1.0 U	1.0 U		
Acetic acid			1.0 U	350	250	140	6.6		
Propionic acid			1.0 U	71	32	1.0 U	1.0 U		
Butyric acid			2.0 U	43	28	4.0	2.0 U		
Pyruvic acid			0.50 U	1.3 U	1.0 U	0.50 U	0.50 U		

Table 4
Summary of Groundwater Laboratory Analytical Data
Former Bell Aerospace
Textron Inc., Wheatfield, New York

Constituents of Concern (Units)	Groundwater Protection Standard (µg/L)	87-08(1)							
		10/20/16	11/14/17	1/24/18	2/28/18	3/21/18	6/20/18	September	December
Volatile Organic Compounds (µg/L)									
Chloromethane	5*	1.0 U	2.5 U	5.0 U	10 U	10 U	2.5 U		
Vinyl chloride	2	72	190	500	1,200	1,300	360		
Chloroethane	5*	1.0 U	2.5 U	5.0 U	10 U	10 U	2.5 U		
Bromomethane	5*	1.0 U	2.5 U	5.0 U	10 U	10 U	2.5 U		
1,1-Dichloroethene	5*	1.9	4.2	4.2 J	8.4 J	9.0 J	0.94 J		
Acetone	50	5.0 U	4.5 J	9.3 J	50 U	50 U	6.3 J		
Carbon disulfide	60	0.23	2.5 U	12	12	17	6.6		
Methylene chloride	5*	1.0 U	2.5 U	14	190	110	2.5 U		
trans-1,2-Dichloroethene	5*	1.6	3.4	3.9 J	9.0 J	9.7 J	3.8		
1,1-Dichloroethane	5*	1.7	4.7	6.4	15	20	6.6		
cis-1,2-Dichloroethene	5*	300 D	720 D	780	1,500	1,800	160		
2-Butanone	50	5.0 U	13 U	25 U	50 U	50 U	13 U		
Chloroform	7	1.0 U	2.5 U	5.0 U	10 U	10 U	2.5 U		
1,1,1-Trichloroethane	5*	0.77 J	2.6	3.5 J	6.1 J	8.0 J	1.9 J		
Carbon tetrachloride	5	1.0 U	2.5 U	5.0 U	10 U	10 U	2.5 U		
Benzene	1	1.0 U	2.5 U	5.0 U	10 U	10 U	2.5 U		
1,2-Dichloroethane	0.6	1.0 U	2.5 U	5.0 U	10 U	10 U	2.5 U		
Trichloroethene	5*	3.5	7.0	39	37	32	6.1		
1,2-Dichloropropane	1	1.0 U	2.5 U	5.0 U	10 U	10 U	2.5 U		
Bromodichloromethane	50	1.0 U	2.5 U	5.0 U	10 U	10 U	2.5 U		
cis-1,3-Dichloropropene	0.4**	1.0 U	2.5 U	5.0 U	10 U	10 U	2.5 U		
4-Methyl-2-pentanone	No Given Value	5.0 U	13 U	25 U	50 U	50 U	13 U		
Toluene	5*	1.0 U	2.5 U	5.0 U	10 U	10 U	2.5 U		
trans-1,3-Dichloropropene	0.4**	1.0 U	2.5 U	5.0 U	10 U	10 U	2.5 U		
1,1,2-Trichloroethane	1	1.0 U	2.5 U	5.0 U	10 U	10 U	2.5 U		
Tetrachloroethene	5*	1.0 U	2.5 U	5.0 U	10 U	10 U	2.5 U		
2-Hexanone	50	5.0 U	13 U	25 U	50 U	50 U	13 U		
Dibromochloromethane	50	1.0 U	2.5 U	5.0 U	10 U	10 U	2.5 U		
Chlorobenzene	5*	1.0 U	2.5 U	5.0 U	10 U	10 U	2.5 U		
Ethylbenzene	5*	1.0 U	2.5 U	5.0 U	10 U	10 U	2.5 U		
m/p-Xylenes	5*	2.0 U	5.0 U	10 U	20 U	20 U	5.0 U		
o-Xylene	5*	1.0 U	2.5 U	5.0 U	10 U	10 U	2.5 U		
Styrene	5*	1.0 U	2.5 U	5.0 U	10 U	10 U	2.5 U		
Bromoform	50	1.0 U	2.5 U	5.0 U	10 U	10 U	2.5 U		
1,1,2,2-Tetrachloroethane	5*	1.0 U	2.5 U	5.0 U	10 U	10 U	2.5 U		
General Chemistry Parameters									
Iron, ferrous (mg/L)			0.26	0.10 U	0.16	0.10 U	0.14		
Chloride (mg/L)			23.2	13.5	16.1	21.4	22.5		
Total organic carbon (mg/L)			3.6	50.5	45.8	47.1	4.1		
Sulfate (mg/L)			348	122	96.1	75.3	305		
Nitrate as N (mg/L)			1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Methane (µg/L)			23	15	15	36	69		
Ethane (µg/L)			1.0 U	1.0 U	4.0 U	5.2 U	5.2 U		
Ethene (µg/L)			20	69	130	170	380		
Carbon dioxide (mg/L)			389	433	426	511	460		
Alkalinity, Total as CaCO ₃ (mg/L)			389	431	476	545	455		
Bicarbonate Alkalinity as CaCO ₃ (mg/L)			389	431	476	545	455		
Carbonate Alkalinity as CaCO ₃ (mg/L)			2.0 U	2.0 U	2.0 U	2.0 U	2.0 u		
Volatile Fatty Acids (mg/L)									
Lactic acid			1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Acetic acid			1.0 U	96	94	98	1.0 U		
Propionic acid			1.0 U	7.0	1.0 U	1.0 U	1.0 U		
Butyric acid			2.0 U	1.0 U	2.0 U	2.0 U	2.0 U		
Pyruvic acid			0.50 U	0.50 U	0.50 U	0.50 U	0.50 U		

Table 4
Summary of Groundwater Laboratory Analytical Data
Former Bell Aerospace
Textron Inc., Wheatfield, New York

Constituents of Concern (Units)	Groundwater Protection Standard (µg/L)	87-09(1)							
		5/22/17	11/13/17	1/23/18	2/27/18	3/20/18	6/19/18	September	December
Volatile Organic Compounds (µg/L)									
Chloromethane	5*	2.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U		
Vinyl chloride	2	190	210	200	190 D	170	150		
Chloroethane	5*	2.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U		
Bromomethane	5*	2.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U		
1,1-Dichloroethene	5*	1.5 J	2.1	1.4 J	1.3	1.2 J	1.1		
Acetone	50	4.1 J	10 U	2.5 J	5.0 U	10 U	5.0 U		
Carbon disulfide	60	2.0 U	0.61 J	2.2	1.1 B	2.0 U	1.4		
Methylene chloride	5*	2.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U		
trans-1,2-Dichloroethene	5*	1.4 J	2.1	1.6 J	1.7	1.3 J	1.4		
1,1-Dichloroethane	5*	16	20	17	19	16	16		
cis-1,2-Dichloroethene	5*	150	170	130	150	130	130		
2-Butanone	50	10 U	10 U	10 U	5.0 U	10 U	5.0 U		
Chloroform	7	2.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U		
1,1,1-Trichloroethane	5*	85	110	79	88	83	81		
Carbon tetrachloride	5	2.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U		
Benzene	1	2.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U		
1,2-Dichloroethane	0.6	2.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U		
Trichloroethene	5*	1.7 J	2.2	2.1	2.1	2.1	1.6		
1,2-Dichloropropane	1	2.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U		
Bromodichloromethane	50	2.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U		
cis-1,3-Dichloropropene	0.4**	2.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U		
4-Methyl-2-pentanone	No Given Value	10 U	10 U	10 U	5.0 U	10 U	5.0 U		
Toluene	5*	2.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U		
trans-1,3-Dichloropropene	0.4**	2.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U		
1,1,2-Trichloroethane	1	2.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U		
Tetrachloroethene	5*	2.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U		
2-Hexanone	50	10 U	10 U	10 U	5.0 U	10 U	5.0 U		
Dibromochloromethane	50	2.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U		
Chlorobenzene	5*	2.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U		
Ethylbenzene	5*	2.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U		
m/p-Xylenes	5*	4.0 U	4.0 U	4.0 U	2.0 U	4.0 U	2.0 U		
o-Xylene	5*	2.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U		
Styrene	5*	2.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U		
Bromoform	50	2.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U		
1,1,2,2-Tetrachloroethane	5*	2.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U		
General Chemistry Parameters									
Iron, ferrous (mg/L)			0.10 U	0.10 U	0.10 U	0.10 U	0.10 U		
Chloride (mg/L)			134	116	133	159	129		
Total organic carbon (mg/L)			3.3	3.4	3.6	4.7	3.5		
Sulfate (mg/L)			972	991	988	879	1,080		
Nitrate as N (mg/L)			1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Methane (µg/L)			84	64	65	47	79		
Ethane (µg/L)			1.4	1.6	1.6	1.0 U	1.6		
Ethene (µg/L)			10	11	11	8	12		
Carbon dioxide (mg/L)			307	281	267	275	316		
Alkalinity, Total as CaCO ₃ (mg/L)			307	287	298	296	314		
Bicarbonate Alkalinity as CaCO ₃ (mg/L)			307	287	298	296	314		
Carbonate Alkalinity as CaCO ₃ (mg/L)			2.0 U	2.0 U	2.0 U	2.0 U	2.0 U		
Volatile Fatty Acids (mg/L)									
Lactic acid			1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Acetic acid			1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Propionic acid			1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Butyric acid			2.0 U	2.0 U	2.0 U	2.0 U	2.0 U		
Pyruvic acid			0.50 U	0.50 U	0.50 U	0.50 U	0.50 U		

Table 4
Summary of Groundwater Laboratory Analytical Data
Former Bell Aerospace
Textron Inc., Wheatfield, New York

Constituents of Concern (Units)	Groundwater Protection Standard (µg/L)	87-12(1)							
		5/23/17	11/14/17	1/24/18	2/27/18	3/20/18	6/19/18	September	December
Volatile Organic Compounds (µg/L)									
Chloromethane	5*	10 U	5.2 J	10 U	10 U	20 U	10 U		
Vinyl chloride	2	1,700	2,300	1,400	1,200	2,200	1,100		
Chloroethane	5*	10 U	20 U	10 U	10 U	20 U	10 U		
Bromomethane	5*	10 U	6.2 J	10 U	10 U	20 U	10 U		
1,1-Dichloroethene	5*	7.2 J	20 U	10 U	10 U	20 U	5.2 J		
Acetone	50	50 U	100 U	50 U	50 U	100 U	50 U		
Carbon disulfide	60	10 U	20 U	31	12	23	21		
Methylene chloride	5*	10 U	20 U	84	10 U	20 U	410		
trans-1,2-Dichloroethene	5*	8.7 J	12 J	7.3 J	5.7 J	7.2 J	7.4 J		
1,1-Dichloroethane	5*	19	29	24	14	25	27		
cis-1,2-Dichloroethene	5*	2,200 D	3,000	970	700	1,300	1,200		
2-Butanone	50	50 U	100 U	50 U	50 U	100 U	50 U		
Chloroform	7	10 U	20 U	10 U	10 U	20 U	10 U		
1,1,1-Trichloroethane	5*	30	32	29	15	28	31		
Carbon tetrachloride	5	10 U	20 U	10 U	10 U	20 U	10 U		
Benzene	1	10 U	20 U	10 U	10 U	20 U	10 U		
1,2-Dichloroethane	0.6	10 U	20 U	10 U	10 U	20 U	10 U		
Trichloroethene	5*	14	18 J	17	13	33	76		
1,2-Dichloropropane	1	10 U	20 U	10 U	10 U	20 U	10 U		
Bromodichloromethane	50	10 U	20 U	10 U	10 U	20 U	10 U		
cis-1,3-Dichloropropene	0.4**	10 U	20 U	10 U	10 U	20 U	10 U		
4-Methyl-2-pentanone	No Given Value	50 U	100 U	50 U	50 U	100 U	50 U		
Toluene	5*	10 U	20 U	10 U	10 U	20 U	10 U		
trans-1,3-Dichloropropene	0.4**	10 U	20 U	10 U	10 U	20 U	10 U		
1,1,2-Trichloroethane	1	10 U	20 U	10 U	10 U	20 U	10 U		
Tetrachloroethene	5*	10 U	20 U	10 U	10 U	20 U	10 U		
2-Hexanone	50	50 U	100 U	50 U	50 U	100 U	50 U		
Dibromochloromethane	50	10 U	20 U	10 U	10 U	20 U	10 U		
Chlorobenzene	5*	10 U	20 U	10 U	10 U	20 U	10 U		
Ethylbenzene	5*	10 U	20 U	10 U	10 U	20 U	10 U		
m/p-Xylenes	5*	20 U	40 U	20 U	20 U	40 U	20 U		
o-Xylene	5*	10 U	20 U	10 U	10 U	20 U	10 U		
Styrene	5*	10 U	20 U	10 U	10 U	20 U	10 U		
Bromoform	50	10 U	20 U	10 U	10 U	20 U	10 U		
1,1,2,2-Tetrachloroethane	5*	10 U	20 U	10 U	10 U	20 U	10 U		
General Chemistry Parameters									
Iron, ferrous (mg/L)			0.10 U	0.10 U	0.10 U	0.10 U	0.10 U		
Chloride (mg/L)			154	329	429	302	191		
Total organic carbon (mg/L)			3.0	10.1	3.0	5.1	3.5		
Sulfate (mg/L)			954	550	312	800	763		
Nitrate as N (mg/L)			1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Methane (µg/L)			54	47	21	46	130		
Ethane (µg/L)			4.2	3.6	1.0 U	5.2 U	5.2 U		
Ethene (µg/L)			42	310	160	270	310		
Carbon dioxide (mg/L)			276	479	192	349	415		
Alkalinity, Total as CaCO3 (mg/L)			260	466	212	380	357		
Bicarbonate Alkalinity as CaCO3 (mg/L)			260	466	212	380	357		
Carbonate Alkalinity as CaCO3 (mg/L)			2.0 U	2.0 U	2.0 U	2.0 U	2.0 U		
Volatile Fatty Acids (mg/L)									
Lactic acid			1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Acetic acid			1.0 U	13	1.0 U	1.0 U	1.0 U		
Propionic acid			1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Butyric acid			2.0 U	2.0 U	2.0 U	2.0 U	2.0 U		
Pyruvic acid			0.50 U	0.50 U	0.50 U	0.50 U	0.50 U		

Table 4
Summary of Groundwater Laboratory Analytical Data
Former Bell Aerospace
Textron Inc., Wheatfield, New York

Constituents of Concern (Units)	Groundwater Protection Standard (µg/L)	87-13(1)							
		5/22/17	11/14/17	1/24/18	2/28/18	3/21/18	6/20/18	September	December
Volatile Organic Compounds (µg/L)									
Chloromethane	5*	500 U	46 J	200 U	1,000 U	1,000 U	1,000 U		
Vinyl chloride	2	3,000	1,300	1,600	2,200 D	2,400	1,400		
Chloroethane	5*	500 U	200 U	200 U	1,000 U	1,000 U	1,000 U		
Bromomethane	5*	500 U	200 U	200 U	1,000 U	1,000 U	1,000 U		
1,1-Dichloroethene	5*	500 U	120 J	210	1,000 U	1,000 U	1,000 U		
Acetone	50	2,500 U	1,000 U	1,000 U	5,000 U	5,000 U	5,000 U		
Carbon disulfide	60	500 U	200 U	200 U	1,000 U	1,000 U	1,000 U		
Methylene chloride	5*	94,000 D	3,500	17,000	87,000 D	120,000	490,000 D		
trans-1,2-Dichloroethene	5*	500 U	200 U	200 U	1,000 U	1,000 U	1,000 U		
1,1-Dichloroethane	5*	320 J	130 J	280	360 D,J	520 J	570 J		
cis-1,2-Dichloroethene	5*	80,000	19,000	36,000	38,000 D	42,000	44,000		
2-Butanone	50	2,500 U	1,000 U	1,000 U	5,000 U	5,000 U	5,000 U		
Chloroform	7	1,200	200 U	200 U	1,000 U	1,000 U	1,000 U		
1,1,1-Trichloroethane	5*	1,100	1,100	3,300	1,600 D	2,000	1,700		
Carbon tetrachloride	5	500 U	200 U	200 U	1,000 U	1,000 U	1,000 U		
Benzene	1	500 U	200 U	200 U	1,000 U	1,000 U	1,000 U		
1,2-Dichloroethane	0.6	500 U	200 U	200 U	1,000 U	1,000 U	1,000 U		
Trichloroethene	5*	40,000	17,000	120,000 D	65,000 D	84,000	88,000		
1,2-Dichloropropane	1	500 U	200 U	200 U	1,000 U	1,000 U	1,000 U		
Bromodichloromethane	50	230	200 U	200 U	1,000 U	1,000 U	1,000 U		
cis-1,3-Dichloropropene	0.4**	500 U	200 U	200 U	1,000 U	1,000 U	1,000 U		
4-Methyl-2-pentanone	No Given Value	2,500 U	1,000 U	1,000 U	5,000 U	5,000 U	5,000 U		
Toluene	5*	500 U	200 U	160 J	1,000 U	1,000 U	1,000 U		
trans-1,3-Dichloropropene	0.4**	500 U	200 U	200 U	1,000 U	1,000 U	1,000 U		
1,1,2-Trichloroethane	1	500 U	200 U	200 U	1,000 U	1,000 U	1,000 U		
Tetrachloroethene	5*	500 U	200 U	310	1,000 U	1,000 U	1,000 U		
2-Hexanone	50	2,500 U	1,000 U	1,000 U	5,000 U	5,000 U	5,000 U		
Dibromochloromethane	50	500 U	200 U	200 U	1,000 U	1,000 U	1,000 U		
Chlorobenzene	5*	500 U	200 U	200 U	1,000 U	1,000 U	1,000 U		
Ethylbenzene	5*	500 U	200 U	200 U	1,000 U	1,000 U	1,000 U		
m/p-Xylenes	5*	1,000 U	400 U	400 U	2,000 U	2,000 U	2,000 U		
o-Xylene	5*	500 U	200 U	200 U	1,000 U	1,000 U	1,000 U		
Styrene	5*	500 U	200 U	200 U	1,000 U	1,000 U	1,000 U		
Bromoform	50	500 U	200 U	200 U	1,000 U	1,000 U	1,000 U		
1,1,2,2-Tetrachloroethane	5*	500 U	200 U	200 U	1,000 U	1,000 U	1,000 U		
General Chemistry Parameters									
Iron, ferrous (mg/L)			0.24	3.1	0.10 U	0.10 U	0.16		
Chloride (mg/L)			233	287	321	350	448		
Total organic carbon (mg/L)			3.2	10.7	320	247	270		
Sulfate (mg/L)			785	451	612	579	547		
Nitrate as N (mg/L)			1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Methane (µg/L)			520 D	130	7.5	200	180		
Ethane (µg/L)			3.9	6.3	140	7.4	8.9		
Ethene (µg/L)			150 D	110	130	210	150		
Carbon dioxide (mg/L)			351	1,220	853	1,010	1,560		
Alkalinity, Total as CaCO ₃ (mg/L)			340	922	941	935	1,000		
Bicarbonate Alkalinity as CaCO ₃ (mg/L)			340	922	941	935	1,000		
Carbonate Alkalinity as CaCO ₃ (mg/L)			2.0 U	2.0 U	2.0 U	2.0 U	2.0 U		
Volatile Fatty Acids (mg/L)									
Lactic acid			1.0 U	20	8.2	7.9	11		
Acetic acid			1.0 U	550	490	450	430		
Propionic acid			1.0 U	78	57	45	24		
Butyric acid			2.0 U	12	10 U	30	10 U		
Pyruvic acid			0.50 U	2.5 U	2.5 U	2.5 U	2.5 U		

Table 4
Summary of Groundwater Laboratory Analytical Data
Former Bell Aerospace
Textron Inc., Wheatfield, New York

Constituents of Concern (Units)	Groundwater Protection Standard (µg/L)	87-17(1)							
		10/20/16	11/14/17	1/24/18	2/28/18	3/21/18	6/20/18	September	December
Volatile Organic Compounds (µg/L)									
Chloromethane	5*	1.0 U	1.0 U	2.0 U	1.0 U	2.5 U	2.0 U		
Vinyl chloride	2	150	280 D	320	340 D	290	220		
Chloroethane	5*	1.0 U	1.0 U	2.0 U	1.0 U	2.5 U	2.0 U		
Bromomethane	5*	1.0 U	1.0 U	2.0 U	1.0 U	2.5 U	2.0 U		
1,1-Dichloroethene	5*	0.91 J	1.5	1.4 J	1.3	2.5 U	1.2 J		
Acetone	50	1.4 J	1.8 J	10 U	5.0 U	13 U	10 U		
Carbon disulfide	60	1.5	1.4	1.4 J	1.2 B	2.5 U	2.0 U		
Methylene chloride	5*	1.0 U	1.0 U	2.0 U	1.0 U	2.5 U	2.0 U		
trans-1,2-Dichloroethene	5*	2.5	2.2	2.3	2.2	1.8 J	2.0 J		
1,1-Dichloroethane	5*	21	26	23	25	22	20		
cis-1,2-Dichloroethene	5*	130	130	110	120	97	92		
2-Butanone	50	5.0 U	5.0 U	10 U	5.0 U	13 U	10 U		
Chloroform	7	1.0 U	1.0 U	2.0 U	1.0 U	2.5 U	2.0 U		
1,1,1-Trichloroethane	5*	89	110	100	100	100	89		
Carbon tetrachloride	5	1.0 U	1.0 U	2.0 U	1.0 U	2.5 U	2.0 U		
Benzene	1	1.0 U	1.0 U	2.0 U	1.0 U	2.5 U	2.0 U		
1,2-Dichloroethane	0.6	1.0 U	1.0 U	2.0 U	1.0 U	2.5 U	2.0 U		
Trichloroethene	5*	18	2.7	2.7	3.2	2.3 J	2.1		
1,2-Dichloropropane	1	1.0 U	1.0 U	2.0 U	1.0 U	2.5 U	2.0 U		
Bromodichloromethane	50	1.0 U	1.0 U	2.0 U	1.0 U	2.5 U	2.0 U		
cis-1,3-Dichloropropene	0.4**	1.0 U	1.0 U	2.0 U	1.0 U	2.5 U	2.0 U		
4-Methyl-2-pentanone	No Given Value	5.0 U	5.0 U	10 U	5.0 U	13 U	10 U		
Toluene	5*	1.0 U	1.0 U	2.0 U	1.0 U	2.5 U	2.0 U		
trans-1,3-Dichloropropene	0.4**	1.0 U	1.0 U	2.0 U	1.0 U	2.5 U	2.0 U		
1,1,2-Trichloroethane	1	1.0 U	1.0 U	2.0 U	1.0 U	2.5 U	2.0 U		
Tetrachloroethene	5*	1.0 U	1.0 U	2.0 U	1.0 U	2.5 U	2.0 U		
2-Hexanone	50	5.0 U	5.0 U	10 U	5.0 U	13 U	10 U		
Dibromochloromethane	50	1.0 U	1.0 U	2.0 U	1.0 U	2.5 U	2.0 U		
Chlorobenzene	5*	1.0 U	1.0 U	2.0 U	1.0 U	2.5 U	2.0 U		
Ethylbenzene	5*	1.0 U	1.0 U	2.0 U	1.0 U	2.5 U	2.0 U		
m/p-Xylenes	5*	2.0 U	2.0 U	4.0 U	2.0 U	5.0 U	4.0 U		
o-Xylene	5*	1.0 U	1.0 U	2.0 U	1.0 U	2.5 U	2.0 U		
Styrene	5*	1.0 U	1.0 U	2.0 U	1.0 U	2.5 U	2.0 U		
Bromoform	50	1.0 U	1.0 U	2.0 U	1.0 U	2.5 U	2.0 U		
1,1,2,2-Tetrachloroethane	5*	1.0 U	1.0 U	2.0 U	1.0 U	2.5 U	2.0 U		
General Chemistry Parameters									
Iron, ferrous (mg/L)			0.12	0.13	0.17	0.15	0.25		
Chloride (mg/L)			128	124	157	160	142		
Total organic carbon (mg/L)			3.7	4.7	4.3	3.9	3.7		
Sulfate (mg/L)			1,010	1,030	1,060	938	1,120		
Nitrate as N (mg/L)			1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Methane (µg/L)			100	66	1.5	68	72		
Ethane (µg/L)			1.3	1.2	12	1.2	1.2		
Ethene (µg/L)			12	11	70	12	13		
Carbon dioxide (mg/L)			305	300	258	268	286		
Alkalinity, Total as CaCO3 (mg/L)			304	291	292	298	288		
Bicarbonate Alkalinity as CaCO3 (mg/L)			304	291	292	298	288		
Carbonate Alkalinity as CaCO3 (mg/L)			2.0 U	2.0 U	2.0 U	2.0 U	2.0 U		
Volatile Fatty Acids (mg/L)									
Lactic acid			1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Acetic acid			1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Propionic acid			1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Butyric acid			2.0 U	2.0 U	2.0 U	2.0 U	2.0 U		
Pyruvic acid			0.50 U	0.50 U	0.50 U	0.50 U	0.50 U		

Table 4
Summary of Groundwater Laboratory Analytical Data
Former Bell Aerospace
Textron Inc., Wheatfield, New York

Constituents of Concern (Units)	Groundwater Protection Standard (µg/L)	87-20(1)							
		10/19/16	11/14/17	1/23/18	2/27/18	3/20/18	6/19/18	September	December
Volatile Organic Compounds (µg/L)									
Chloromethane	5*	50 U	25 U	50 U	5.0 U	25 U	10 U		
Vinyl chloride	2	830	760	1,600	460	1,200	440		
Chloroethane	5*	50 U	25 U	50 U	5.0 U	25 U	10 U		
Bromomethane	5*	50 U	9.0 J	50 U	5.0 U	25 U	10 U		
1,1-Dichloroethene	5*	50 U	25 U	50 U	5.0 U	25 U	3.8 J		
Acetone	50	250 U	130 U	250 U	25 U	130 U	50 U		
Carbon disulfide	60	50 U	25 U	50 U	6.5	24 J	10 U		
Methylene chloride	5*	50 U	25 U	50 U	5.0 U	20 J	10 U		
trans-1,2-Dichloroethene	5*	50 U	17 J	50 U	3.0 J	25 U	4.3 J		
1,1-Dichloroethane	5*	18 J	13 J	16 J	4.7 J	12 J	5.1 J		
cis-1,2-Dichloroethene	5*	4,700	6,200 D	4,800	670	2,800	1,200		
2-Butanone	50	250 U	130 U	250 U	25 U	130 U	50 U		
Chloroform	7	18 J	25 U	50 U	5.0 U	25 U	10 U		
1,1,1-Trichloroethane	5*	22 J	26	21 J	4.7 J	14 J	6.4 J		
Carbon tetrachloride	5	50 U	25 U	50 U	5.0 U	25 U	10 U		
Benzene	1	50 U	25 U	50 U	5.0 U	25 U	10 U		
1,2-Dichloroethane	0.6	50 U	25 U	50 U	5.0 U	25 U	10 U		
Trichloroethene	5*	19 J	34	39 J	13	47	24		
1,2-Dichloropropane	1	50 U	25 U	50 U	5.0 U	25 U	10 U		
Bromodichloromethane	50	50 U	25 U	50 U	5.0 U	25 U	10 U		
cis-1,3-Dichloropropene	0.4**	50 U	25 U	50 U	5.0 U	25 U	10 U		
4-Methyl-2-pentanone	No Given Value	250 U	130 U	250 U	25 U	130 U	50 U		
Toluene	5*	50 U	25 U	50 U	5.0 U	25 U	10 U		
trans-1,3-Dichloropropene	0.4**	50 U	25 U	50 U	5.0 U	25 U	10 U		
1,1,2-Trichloroethane	1	50 U	25 U	50 U	5.0 U	25 U	10 U		
Tetrachloroethene	5*	50 U	25 U	50 U	5.0 U	25 U	10 U		
2-Hexanone	50	250 U	130 U	250 U	25 U	130 U	50 U		
Dibromochloromethane	50	50 U	25 U	50 U	5.0 U	25 U	10 U		
Chlorobenzene	5*	50 U	25 U	50 U	5.0 U	25 U	10 U		
Ethylbenzene	5*	50 U	25 U	50 U	5.0 U	25 U	10 U		
m/p-Xylenes	5*	100 U	50 U	100 U	10 U	50 U	20 U		
o-Xylene	5*	50 U	25 U	50 U	5.0 U	25 U	10 U		
Styrene	5*	50 U	25 U	50 U	5.0 U	25 U	10 U		
Bromoform	50	50 U	25 U	50 U	5.0 U	25 U	10 U		
1,1,2,2-Tetrachloroethane	5*	50 U	25 U	50 U	5.0 U	25 U	10 U		
General Chemistry Parameters									
Iron, ferrous (mg/L)			0.10 U	0.14	0.17	0.15	0.25		
Chloride (mg/L)			108	217	630	408	166		
Total organic carbon (mg/L)			2.5	70.1	3.5	6.1	2.8		
Sulfate (mg/L)			735	779	338	562	506		
Nitrate as N (mg/L)			1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Methane (µg/L)			32	48	7.0	47	37		
Ethane (µg/L)			2.2	2.4	1.0 U	1.7	1.6		
Ethene (µg/L)			17	81	61	110 D	71		
Carbon dioxide (mg/L)			201	394	197	320	274		
Alkalinity, Total as CaCO ₃ (mg/L)			221	375	218	354	242		
Bicarbonate Alkalinity as CaCO ₃ (mg/L)			221	375	218	354	242		
Carbonate Alkalinity as CaCO ₃ (mg/L)			2.0 U	2.0 U	2.0 U	2.0 U	2.0 U		
Volatile Fatty Acids (mg/L)									
Lactic acid			1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Acetic acid			1.0 U	140	1.0 U	3.1	1.0 U		
Propionic acid			1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Butyric acid			2.0 U	2.0 U	2.0 U	2.0 U	2.0 U		
Pyruvic acid			0.50 U	0.50 U	0.50 U	0.50 U	0.50 U		

Table 4
Summary of Groundwater Laboratory Analytical Data
Former Bell Aerospace
Textron Inc., Wheatfield, New York

Constituents of Concern (Units)	Groundwater Protection Standard (µg/L)	87-22(1)							
		10/19/16	11/14/17	1/23/18	2/27/18	3/20/18	6/19/18	September	December
Volatile Organic Compounds (µg/L)									
Chloromethane	5*	5.0 U	5.0 U	25 U	5.0 U	20 U	20 U		
Vinyl chloride	2	430	430	1,100 D	780	1,100	1,100		
Chloroethane	5*	5.0 U	5.0 U	25 U	5.0 U	20 U	20 U		
Bromomethane	5*	5.0 U	5.0 U	25 U	5.0 U	20 U	20 U		
1,1-Dichloroethene	5*	4.9 J	5.0 U	25 U	4.7 J	20 U	20 U		
Acetone	50	6.4 J	25 U	130 U	25 U	100 U	100 U		
Carbon disulfide	60	5.0 U	5.0 U	25 U	1.6 B,J	20 U	20 U		
Methylene chloride	5*	5.0 U	5.0 U	25 U	5.0 U	20 U	20 U		
trans-1,2-Dichloroethene	5*	7.3	4.3 J	12 D,J	7.4	17 J	9.2 J		
1,1-Dichloroethane	5*	5.4J+	4.6 J	9.3 D,J	7.2	9.9 J	7.8 J		
cis-1,2-Dichloroethene	5*	1,200 D	820	2,700 D	1,800 D	2,500	2,100		
2-Butanone	50	25 U	25 U	130 U	25 U	100 U	100 U		
Chloroform	7	1.3 J	5.0 U	25 U	5.0 U	20 U	20 U		
1,1,1-Trichloroethane	5*	5.0 U	5.0 U	25 U	2.2 J	20 U	20 U		
Carbon tetrachloride	5	5.0 U	5.0 U	25 U	5.0 U	20 U	20 U		
Benzene	1	5.0 U	5.0 U	25 U	5.0 U	20 U	20 U		
1,2-Dichloroethane	0.6	5.0 U	5.0 U	25 U	5.0 U	20 U	20 U		
Trichloroethene	5*	5.0 J	2.6 J	70 D	5.6	11 J	9.8 J		
1,2-Dichloropropane	1	5.0 U	5.0 U	25 U	5.0 U	20 U	20 U		
Bromodichloromethane	50	5.0 U	5.0 U	25 U	5.0 U	20 U	20 U		
cis-1,3-Dichloropropene	0.4**	5.0 U	5.0 U	25 U	5.0 U	20 U	20 U		
4-Methyl-2-pentanone	No Given Value	25 U	25 U	130 U	25 U	100 U	100 U		
Toluene	5*	5.0 U	5.0 U	25 U	5.0 U	20 U	20 U		
trans-1,3-Dichloropropene	0.4**	5.0 U	5.0 U	25 U	5.0 U	20 U	20 U		
1,1,2-Trichloroethane	1	5.0 U	5.0 U	25 U	5.0 U	20 U	20 U		
Tetrachloroethene	5*	5.0 U	5.0 U	25 U	5.0 U	20 U	20 U		
2-Hexanone	50	25 U	25 U	130 U	25 U	100 U	100 U		
Dibromochloromethane	50	5.0 U	5.0 U	25 U	5.0 U	20 U	20 U		
Chlorobenzene	5*	5.0 U	5.0 U	25 U	5.0 U	20 U	20 U		
Ethylbenzene	5*	5.0 U	5.0 U	25 U	5.0 U	20 U	20 U		
m/p-Xylenes	5*	10 U	10 U	50 U	10 U	40 U	40 U		
o-Xylene	5*	5.0 U	5.0 U	25 U	5.0 U	20 U	20 U		
Styrene	5*	5.0 U	5.0 U	25 U	5.0 U	20 U	20 U		
Bromoform	50	5.0 U	5.0 U	25 U	5.0 U	20 U	20 U		
1,1,2,2-Tetrachloroethane	5*	5.0 U	5.0 U	25 U	5.0 U	20 U	20 U		
General Chemistry Parameters									
Iron, ferrous (mg/L)			0.10 U	0.10 U	0.10 U	0.10 U	0.11		
Chloride (mg/L)			97.5	119	92.4	145	124		
Total organic carbon (mg/L)			4.9	4.9	4.0	6.0	4.9		
Sulfate (mg/L)			940	1,230	1,050	981	1,090		
Nitrate as N (mg/L)			1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Methane (µg/L)			79	190	110	170	200 D		
Ethane (µg/L)			2.4	5.7	3.9	4.3	6.1		
Ethene (µg/L)			19	190	42	51	87		
Carbon dioxide (mg/L)			482	391	371	354	507		
Alkalinity, Total as CaCO ₃ (mg/L)			428	378	407	392	423		
Bicarbonate Alkalinity as CaCO ₃ (mg/L)			428	378	407	392	423		
Carbonate Alkalinity as CaCO ₃ (mg/L)			2.0 U	2.0 U	2.0 U	2.0 U	2.0 U		
Volatile Fatty Acids (mg/L)									
Lactic acid			1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Acetic acid			1.0 U	1.0 U	1.1	4.0	2.3		
Propionic acid			1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Butyric acid			2.0 U	2.0 U	2.0 U	2.0 U	2.0 U		
Pyruvic acid			0.50 U	0.50 U	0.50 U	0.50 U	0.50 U		

Table 4
Summary of Groundwater Laboratory Analytical Data
Former Bell Aerospace
Textron Inc., Wheatfield, New York

Constituents of Concern (Units)	Groundwater Protection Standard (µg/L)	89-10(1)						
		11/13/17	1/23/18	2/27/18	3/20/18	6/19/18	September	December
Volatile Organic Compounds (µg/L)								
Chloromethane	5*	5.0 U	10 U	50 U	50 U	50 U		
Vinyl chloride	2	100	360	230	400	160		
Chloroethane	5*	5.0 U	10 U	50 U	50 U	50 U		
Bromomethane	5*	5.0 U	10 U	50 U	50 U	50 U		
1,1-Dichloroethene	5*	5.1	20	50 U	50 U	50 U		
Acetone	50	25 U	50 U	250 U	250 U	250 U		
Carbon disulfide	60	1.3 J	63	45 J	210	26 J		
Methylene chloride	5*	660	3,700 D	1,600	4,400	860		
trans-1,2-Dichloroethene	5*	3.5 J	12	50 U	50 U	50 U		
1,1-Dichloroethane	5*	5.9	29	50 U	18 J	13 J		
cis-1,2-Dichloroethene	5*	1,400 D	4,300 D	1,200	1,900	1,500		
2-Butanone	50	25 U	50 U	250 U	250 U	250 U		
Chloroform	7	2.5 J	10 U	50 U	50 U	50 U		
1,1,1-Trichloroethane	5*	9.4	85	23 J	31 J	44 J		
Carbon tetrachloride	5	5.0 U	10 U	50 U	50 U	50 U		
Benzene	1	5.0 U	10 U	50 U	50 U	50 U		
1,2-Dichloroethane	0.6	5.0 U	10 U	50 U	50 U	50 U		
Trichloroethene	5*	1,500 D	17,000 D	4,600	6,400	7,200		
1,2-Dichloropropane	1	5.0 U	10 U	50 U	50 U	50 U		
Bromodichloromethane	50	5.0 U	10 U	50 U	50 U	50 U		
cis-1,3-Dichloropropene	0.4**	5.0 U	10 U	50 U	50 U	50 U		
4-Methyl-2-pentanone	No Given Value	25 U	50 U	250 U	250 U	250 U		
Toluene	5*	5.0 U	8.4 J	50 U	50 U	50 U		
trans-1,3-Dichloropropene	0.4**	5.0 U	10 U	50 U	50 U	50 U		
1,1,2-Trichloroethane	1	5.0 U	10 U	50 U	50 U	50 U		
Tetrachloroethene	5*	5.0 U	10 U	50 U	50 U	50 U		
2-Hexanone	50	25 U	50 U	250 U	250 U	250 U		
Dibromochloromethane	50	5.0 U	10 U	50 U	50 U	50 U		
Chlorobenzene	5*	5.0 U	10 U	50 U	50 U	50 U		
Ethylbenzene	5*	5.0 U	10 U	50 U	50 U	50 U		
m/p-Xylenes	5*	10 U	20 U	100 U	100 U	100 U		
o-Xylene	5*	5.0 U	10 U	50 U	50 U	50 U		
Styrene	5*	5.0 U	10 U	50 U	50 U	50 U		
Bromoform	50	5.0 U	10 U	50 U	50 U	50 U		
1,1,2,2-Tetrachloroethane	5*	5.0 U	10 U	50 U	50 U	50 U		
General Chemistry Parameters								
Iron, ferrous (mg/L)		0.14	0.11	0.10 U	0.10 U	0.34		
Chloride (mg/L)		117	425	961	735	246		
Total organic carbon (mg/L)		3.1	100	48.8	36.2	11.8		
Sulfate (mg/L)		716	897	678	737	618		
Nitrate as N (mg/L)		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Methane (µg/L)		9.6	33	10	15	11		
Ethane (µg/L)		2.7	2.1	4.0	5.4	1.7		
Ethene (µg/L)		17	25	71	130 D	66		
Carbon dioxide (mg/L)		244	504	364	421	365		
Alkalinity, Total as CaCO ₃ (mg/L)		237	433	400	426	352		
Bicarbonate Alkalinity as CaCO ₃ (mg/L)		237	433	400	426	352		
Carbonate Alkalinity as CaCO ₃ (mg/L)		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U		
Volatile Fatty Acids (mg/L)								
Lactic acid		1.0 U	1.0 U	1.0	1.0 U	1.0 U		
Acetic acid		1.0 U	190	88	67	16		
Propionic acid		1.0 U	5.1	1.0 U	1.0 U	1.0 U		
Butyric acid		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U		
Pyruvic acid		0.50 U	0.50 U	0.50 U	0.50 U	0.50 U		

Table 4
Summary of Groundwater Laboratory Analytical Data
Former Bell Aerospace
Textron Inc., Wheatfield, New York

Constituents of Concern (Units)	Groundwater Protection Standard (µg/L)	89-12(1)							
		5/23/17	11/13/17	1/23/18	2/27/18	3/20/18	6/19/18	September	December
Volatile Organic Compounds (µg/L)									
Chloromethane	5*	25 U	5.0 U	10 U	5.0 U	5.0 U	2.0 U		
Vinyl chloride	2	270	110	800	780	580	230		
Chloroethane	5*	25 U	5.0 U	10 U	5.0 U	5.0 U	2.0 U		
Bromomethane	5*	25 U	5.0 U	10 U	5.0 U	5.0 U	2.0 U		
1,1-Dichloroethene	5*	25 U	3.7 J	10 U	5.0 U	5.0 U	0.64 J		
Acetone	50	36 J	8.7 J	10 U	9.9 J	25 U	10 U		
Carbon disulfide	60	25 U	5.0 U	47	8.6	8.5	1.6		
Methylene chloride	5*	25 U	5.0 U	10 U	5.0 U	5.0 U	2.0 U		
trans-1,2-Dichloroethene	5*	19 J	6.0	5.1 J	3.9 J	3.2 J	3.0		
1,1-Dichloroethane	5*	9.0 J	6.3	21	15	14	11		
cis-1,2-Dichloroethene	5*	4,300	1,300 D	1,900	880	420	180		
2-Butanone	50	130	25 U	50 U	25 U	25 U	10 U		
Chloroform	7	25 U	3.0 J	10 U	5.0 U	5.0 U	2.0 U		
1,1,1-Trichloroethane	5*	22 J	13	17	17	21	18		
Carbon tetrachloride	5	25 U	5.0 U	10 U	5.0 U	5.0 U	2.0 U		
Benzene	1	25 U	5.0 U	10 U	5.0 U	5.0 U	2.0 U		
1,2-Dichloroethane	0.6	25 U	5.0 U	10 U	5.0 U	5.0 U	2.0 U		
Trichloroethene	5*	490	23	42	30	20	16		
1,2-Dichloropropane	1	25 U	5.0 U	10 U	5.0 U	5.0 U	2.0 U		
Bromodichloromethane	50	25 U	5.0 U	10 U	5.0 U	5.0 U	2.0 U		
cis-1,3-Dichloropropene	0.4**	25 U	5.0 U	10 U	5.0 U	5.0 U	2.0 U		
4-Methyl-2-pentanone	No Given Value	130	25 U	50 U	25 U	25 U	10 U		
Toluene	5*	25 U	5.0 U	10 U	5.0 U	5.0 U	2.0 U		
trans-1,3-Dichloropropene	0.4**	25 U	5.0 U	10 U	5.0 U	5.0 U	2.0 U		
1,1,2-Trichloroethane	1	25 U	5.0 U	10 U	5.0 U	5.0 U	2.0 U		
Tetrachloroethene	5*	25 U	5.0 U	10 U	5.0 U	5.0 U	2.0 U		
2-Hexanone	50	130	25 U	50 U	25 U	25 U	10 U		
Dibromochloromethane	50	25 U	5.0 U	10 U	5.0 U	5.0 U	2.0 U		
Chlorobenzene	5*	25 U	5.0 U	10 U	5.0 U	5.0 U	2.0 U		
Ethylbenzene	5*	25 U	5.0 U	10 U	5.0 U	5.0 U	2.0 U		
m/p-Xylenes	5*	50	10 U	20 U	10 U	10 U	4.0 U		
o-Xylene	5*	25 U	5.0 U	10 U	5.0 U	5.0 U	2.0 U		
Styrene	5*	25 U	5.0 U	10 U	5.0 U	5.0 U	2.0 U		
Bromoform	50	25 U	5.0 U	10 U	5.0 U	5.0 U	2.0 U		
1,1,2,2-Tetrachloroethane	5*	25 U	5.0 U	10 U	5.0 U	5.0 U	2.0 U		
General Chemistry Parameters									
Iron, ferrous (mg/L)			0.10 U	0.17	0.11	0.14	0.90		
Chloride (mg/L)			112	319	531	504	207		
Total organic carbon (mg/L)			3.4	35.6	4.7	6.8	3.9		
Sulfate (mg/L)			617	734	822	972	872		
Nitrate as N (mg/L)			1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Methane (µg/L)			11	30	31	30	42		
Ethane (µg/L)			1.0 U	1.9	3.3	10 U	10 U		
Ethene (µg/L)			5.7	140	330	370	480		
Carbon dioxide (mg/L)			241	468	278	274	292		
Alkalinity, Total as CaCO3 (mg/L)			234	466	308	298	286		
Bicarbonate Alkalinity as CaCO3 (mg/L)			234	466	308	298	286		
Carbonate Alkalinity as CaCO3 (mg/L)			2.0 U	2.0 U	2.0 U	2.0 U	2.0 U		
Volatile Fatty Acids (mg/L)									
Lactic acid			1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Acetic acid			1.0 U	51	1.0 U	1.0 U	1.0 U		
Propionic acid			1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Butyric acid			2.0 U	2.0 U	2.0 U	2.0 U	2.0 U		
Pyruvic acid			0.50 U	0.50 U	0.50 U	0.50 U	0.50 U		

Table 4
Summary of Groundwater Laboratory Analytical Data
Former Bell Aerospace
Textron Inc., Wheatfield, New York

Constituents of Concern (Units)	Groundwater Protection Standard (µg/L)	89-15(1)							
		10/20/16	11/14/17	1/24/18	2/28/18	3/21/18	6/20/18	September	December
Volatile Organic Compounds (µg/L)									
Chloromethane	5*	250 U	0.26 J	1.0 U	50 U	50 U	5.0 U		
Vinyl chloride	2	390	20	270 D	550	840	93		
Chloroethane	5*	250 U	1.0 U	1.0 U	50 U	50 U	5.0 U		
Bromomethane	5*	250 U	1.0 U	1.0 U	50 U	50 U	5.0 U		
1,1-Dichloroethene	5*	250 U	0.66 J	2.3	50 U	50 U	5.0 U		
Acetone	50	1300 U	5.0 U	5.0 U	250 U	250 U	25 U		
Carbon disulfide	60	110 J	0.26 J	5.5	49 J	310	16		
Methylene chloride	5*	110,000 D	1.0 U	360 D	7,700	15,000 D	670		
trans-1,2-Dichloroethene	5*	250 U	0.44 J	3.0	50 U	50 U	2.0 J		
1,1-Dichloroethane	5*	250 U	3.9	3.7	50 U	50 U	3.8 J		
cis-1,2-Dichloroethene	5*	17,000	62	460 D	640	790	150		
2-Butanone	50	1300 U	5.0 U	5.3	250 U	250 U	25 U		
Chloroform	7	410	1.0 U	1.2	50 U	50 U	5.0 U		
1,1,1-Trichloroethane	5*	230 J	0.97 J	2.2	50 U	50 U	21		
Carbon tetrachloride	5	250 U	1.0 U	1.0 U	50 U	50 U	5.0 U		
Benzene	1	250 U	1.0 U	0.21 J	50 U	50 U	5.0 U		
1,2-Dichloroethane	0.6	250 U	1.0 U	1.0 U	50 U	50 U	5.0 U		
Trichloroethene	5*	140,000 D	5.1	280 D	410	510	110		
1,2-Dichloropropane	1	250 U	1.0 U	1.0 U	50 U	50 U	5.0 U		
Bromodichloromethane	50	130 J	1.0 U	1.0 U	50 U	50 U	5.0 U		
cis-1,3-Dichloropropene	0.4**	250 U	1.0 U	1.0 U	50 U	50 U	5.0 U		
4-Methyl-2-pentanone	No Given Value	1300 U	5.0 U	5.0 U	250 U	250 U	25 U		
Toluene	5*	250 U	1.0 U	0.49 J	50 U	50 U	5.0 U		
trans-1,3-Dichloropropene	0.4**	250 U	1.0 U	1.0 U	50 U	50 U	5.0 U		
1,1,2-Trichloroethane	1	250 U	1.0 U	1.0 U	50 U	50 U	5.0 U		
Tetrachloroethene	5*	250 U	1.0 U	1.0 U	50 U	50 U	5.0 U		
2-Hexanone	50	1300 U	5.0 U	5.0 U	250 U	250 U	25 U		
Dibromochloromethane	50	250 U	1.0 U	1.0 U	50 U	50 U	5.0 U		
Chlorobenzene	5*	250 U	1.0 U	1.0 U	50 U	50 U	5.0 U		
Ethylbenzene	5*	250 U	1.0 U	1.0 U	50 U	50 U	5.0 U		
m/p-Xylenes	5*	500 U	2.0 U	2.0 U	100 U	100 U	10 U		
o-Xylene	5*	250 U	1.0 U	1.0 U	50 U	50 U	5.0 U		
Styrene	5*	250 U	1.0 U	1.0 U	50 U	50 U	5.0 U		
Bromoform	50	250 U	1.0 U	1.0 U	50 U	50 U	5.0 U		
1,1,2,2-Tetrachloroethane	5*	250 U	1.0 U	1.0 U	50 U	50 U	5.0 U		
General Chemistry Parameters									
Iron, ferrous (mg/L)			0.13	4.3	0.14	0.13	0.10 U		
Chloride (mg/L)			105	76.0	83.3	106	85.3		
Total organic carbon (mg/L)			3.4	141	83	59.3	18.9		
Sulfate (mg/L)			386	40.8	63.3	33.5	241		
Nitrate as N (mg/L)			1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Methane (µg/L)			21	30	58	110	78		
Ethane (µg/L)			1.0 U	3.6	2.5 U	3.0	5.2 U		
Ethene (µg/L)			1.0 U	69	150	220 D	340		
Carbon dioxide (mg/L)			277	660	534	648	437		
Alkalinity, Total as CaCO3 (mg/L)			287	530	595	644	469		
Bicarbonate Alkalinity as CaCO3 (mg/L)			287	530	595	644	469		
Carbonate Alkalinity as CaCO3 (mg/L)			2.0 U	2.0 U	2.0 U	2.0 U	2.0 U		
Volatile Fatty Acids (mg/L)									
Lactic acid			1.0 U	2.0 U	1.0 U	1.0 U	1.0 U		
Acetic acid			1.0 U	280	150	95	17		
Propionic acid			1.0 U	7.7	4.9	6.3	2.0		
Butyric acid			2.0 U	4.0 U	10	14	3.6		
Pyruvic acid			0.50 U	1.0 U	0.50 U	0.50 U	0.50 U		

Table 4
Summary of Groundwater Laboratory Analytical Data
Former Bell Aerospace
Textron Inc., Wheatfield, New York

Constituents of Concern (Units)	Groundwater Protection Standard (µg/L)	B-10A(1)							
		5/23/17	11/14/17	1/24/18	2/28/18	3/21/18	6/20/18	September	December
Volatile Organic Compounds (µg/L)									
Chloromethane	5*	500 U	170 J	500 U	200 U	500 U	250 U		
Vinyl chloride	2	430 J	380 J	510	440	370 J	750		
Chloroethane	5*	500 U	500 U	500 U	200 U	500 U	250 U		
Bromomethane	5*	500 U	170 J	500 U	200 U	500 U	250 U		
1,1-Dichloroethene	5*	310 J	380 J	380 J	310	410 J	200 J		
Acetone	50	2,500 U	2,500 U	2,500 U	1,000 U	2,500 U	1,300 U		
Carbon disulfide	60	500 U	500 U	500 U	200 U	500 U	250 U		
Methylene chloride	5*	3,300	6,000	3,700	2,200	3,000	740		
trans-1,2-Dichloroethene	5*	500 U	180 J	250 J	190 J	200 J	87 J		
1,1-Dichloroethane	5*	350 J	450 J	430 J	370	380 J	180 J		
cis-1,2-Dichloroethene	5*	20,000	22,000	70,000	65,000 D	52,000	37,000		
2-Butanone	50	2,500 U	2,500 U	2,500 U	1,000 U	2,500 U	1,300 U		
Chloroform	7	980	500 U	500 U	200 U	500 U	250 U		
1,1,1-Trichloroethane	5*	780	930	1,100	850	1,300	730		
Carbon tetrachloride	5	500 U	500 U	500 U	200 U	500 U	250 U		
Benzene	1	500 U	500 U	500 U	200 U	500 U	250 U		
1,2-Dichloroethane	0.6	500 U	500 U	500 U	200 U	500 U	250 U		
Trichloroethene	5*	58,000	64,000	28,000	17,000	33,000	12,000		
1,2-Dichloropropane	1	500 U	500 U	500 U	200 U	500 U	250 U		
Bromodichloromethane	50	210 J	500 U	500 U	200 U	500 U	250 U		
cis-1,3-Dichloropropene	0.4**	500 U	500 U	500 U	200 U	500 U	250 U		
4-Methyl-2-pentanone	No Given Value	2,500 U	2,500 U	2,500 U	1,000 U	2,500 U	1,300 U		
Toluene	5*	500 U	500 U	500 U	200 U	500 U	250 U		
trans-1,3-Dichloropropene	0.4**	500 U	500 U	500 U	200 U	500 U	250 U		
1,1,2-Trichloroethane	1	500 U	500 U	500 U	200 U	500 U	250 U		
Tetrachloroethene	5*	500 U	500 U	500 U	200 U	500 U	250 U		
2-Hexanone	50	2,500 U	2,500 U	2,500 U	1,000 U	2,500 U	1,300 U		
Dibromochloromethane	50	500 U	500 U	500 U	200 U	500 U	250 U		
Chlorobenzene	5*	500 U	500 U	500 U	200 U	500 U	250 U		
Ethylbenzene	5*	500 U	500 U	500 U	200 U	500 U	250 U		
m/p-Xylenes	5*	1,000 U	1,000 U	1,000 U	1,000 U	1,000 U	500 U		
o-Xylene	5*	500 U	500 U	500 U	200 U	500 U	250 U		
Styrene	5*	500 U	500 U	500 U	200 U	500 U	250 U		
Bromoform	50	500 U	500 U	500 U	200 U	500 U	250 U		
1,1,2,2-Tetrachloroethane	5*	500 U	500 U	500 U	200 U	500 U	250 U		
General Chemistry Parameters									
Iron, ferrous (mg/L)			0.14	0.10 U	0.10 U	0.10 U	0.10 U		
Chloride (mg/L)			87.2	109	91.1	95.8	67.0		
Total organic carbon (mg/L)			7.9	56.9	53.5	32.6	112		
Sulfate (mg/L)			158	123	96.2	102	35.1		
Nitrate as N (mg/L)			1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Methane (µg/L)			80	67	66	73	1,200 D		
Ethane (µg/L)			1.4	2.2	2.3	2.6	3.2		
Ethene (µg/L)			18	19	25	27	93 D		
Carbon dioxide (mg/L)			398	508	475	424	696		
Alkalinity, Total as CaCO ₃ (mg/L)			479	549	537	467	701		
Bicarbonate Alkalinity as CaCO ₃ (mg/L)			423	549	537	467	701		
Carbonate Alkalinity as CaCO ₃ (mg/L)			56.0	2.0 U	2.0 U	2.0 U	2.0 U		
Volatile Fatty Acids (mg/L)									
Lactic acid			1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Acetic acid			1.0 U	82	97	51	170		
Propionic acid			1.0 U	15	4.1	1.0 U	44		
Butyric acid			2.0 U	2.0 U	2.0 U	2.0 U	13		
Pyruvic acid			0.50 U	0.50 U	0.50 U	0.50 U	0.50 U		

Table 4
Summary of Groundwater Laboratory Analytical Data
Former Bell Aerospace
Textron Inc., Wheatfield, New York

Constituents of Concern (Units)	Groundwater Protection Standard (µg/L)	B-14(1)							
		10/20/16	11/13/17	1/23/18	2/27/18	3/20/18	6/19/18	September	December
Volatile Organic Compounds (µg/L)									
Chloromethane	5*	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U		
Vinyl chloride	2	180	190	180	240 D	180	170		
Chloroethane	5*	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U		
Bromomethane	5*	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U		
1,1-Dichloroethene	5*	1.3	1.8 J	2.0 U	1.2	2.0 U	0.93 J		
Acetone	50	1.6 J	10 U	10 U	1.4 J	4.6 J	5.0 U		
Carbon disulfide	60	0.71 J	0.64 J	3.1	1.1 B	2.0 U	1.0 U		
Methylene chloride	5*	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U		
trans-1,2-Dichloroethene	5*	1.8	1.8 J	1.6 J	2.1	1.5 J	1.3		
1,1-Dichloroethane	5*	20	18	15	22	16	17		
cis-1,2-Dichloroethene	5*	170	140	100	150	120	97		
2-Butanone	50	5.0 U	10 U	10 U	5.0 U	10 U	5.0 U		
Chloroform	7	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U		
1,1,1-Trichloroethane	5*	81	75	52	73	58	64		
Carbon tetrachloride	5	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U		
Benzene	1	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U		
1,2-Dichloroethane	0.6	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U		
Trichloroethene	5*	1.8	1.8 J	1.6 J	2.5	1.7 J	1.5		
1,2-Dichloropropane	1	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U		
Bromodichloromethane	50	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U		
cis-1,3-Dichloropropene	0.4**	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U		
4-Methyl-2-pentanone	No Given Value	5.0 U	10 U	10 U	5.0 U	10 U	5.0 U		
Toluene	5*	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U		
trans-1,3-Dichloropropene	0.4**	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U		
1,1,2-Trichloroethane	1	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U		
Tetrachloroethene	5*	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U		
2-Hexanone	50	5.0 U	10 U	10 U	5.0 U	10 U	5.0 U		
Dibromochloromethane	50	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U		
Chlorobenzene	5*	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U		
Ethylbenzene	5*	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U		
m/p-Xylenes	5*	2.0 U	4.0 U	4.0 U	2.0 U	4.0 U	2.0 U		
o-Xylene	5*	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U		
Styrene	5*	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U		
Bromoform	50	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U		
1,1,2,2-Tetrachloroethane	5*	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U		
General Chemistry Parameters									
Iron, ferrous (mg/L)			0.10 U	0.10 U	0.10 U	0.10 U	0.10 U		
Chloride (mg/L)			120	117	141	165	134		
Total organic carbon (mg/L)			4.1	3.8	4.1	4.4	3.9		
Sulfate (mg/L)			957	972	983	857	1,070		
Nitrate as N (mg/L)			1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Methane (µg/L)			54	53	21	61	80		
Ethane (µg/L)			1.0 U	1.1	1.0 U	1.3	1.4		
Ethene (µg/L)			8.8	12	7.1	14	17		
Carbon dioxide (mg/L)			325	286	265	282	305		
Alkalinity, Total as CaCO3 (mg/L)			308	290	298	302	308		
Bicarbonate Alkalinity as CaCO3 (mg/L)			308	290	298	302	308		
Carbonate Alkalinity as CaCO3 (mg/L)			2.0 U	2.0 U	2.0 U	2.0 U	2.0 U		
Volatile Fatty Acids (mg/L)									
Lactic acid			1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Acetic acid			1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Propionic acid			1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Butyric acid			2.0 U	2.0 U	2.0 U	2.0 U	2.0 U		
Pyruvic acid			0.50 U	0.50 U	0.50 U	0.50 U	0.50 U		

Table 4
Summary of Groundwater Laboratory Analytical Data
Former Bell Aerospace
Textron Inc., Wheatfield, New York

Constituents of Concern (Units)	Groundwater Protection Standard (µg/L)	DW-9							
		10/20/16	11/14/17	1/24/18	2/28/18	3/21/18	6/20/18	September	December
Volatile Organic Compounds (µg/L)									
Chloromethane	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Vinyl chloride	2	2.5	1.0 U	1.0 U	1.0 U	1.0 U	1.7		
Chloroethane	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Bromomethane	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
1,1-Dichloroethene	5*	12	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Acetone	50	5.0 U	1.7 J	1.8 J	2.0 J	2.0 J	5.0 U		
Carbon disulfide	60	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Methylene chloride	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.58 J		
trans-1,2-Dichloroethene	5*	8.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
1,1-Dichloroethane	5*	13	0.40 J	1.0 U	1.0 U	1.0 U	1.0 U		
cis-1,2-Dichloroethene	5*	1,100 D	22	4.9	3.7	3.9	6.8		
2-Butanone	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U		
Chloroform	7	3	0.47 J	1.0 U	1.0 U	1.0 U	1.0 U		
1,1,1-Trichloroethane	5*	44	1.1	1.0 U	1.0 U	1.0 U	1.0 U		
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Benzene	1	0.85 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Trichloroethene	5*	2,400 D	70	20	15	18	11		
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
cis-1,3-Dichloropropene	0.4**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
4-Methyl-2-pentanone	No Given Value	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U		
Toluene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
trans-1,3-Dichloropropene	0.4**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Tetrachloroethene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
2-Hexanone	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U		
Dibromochloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Chlorobenzene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Ethylbenzene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
m/p-Xylenes	5*	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U		
o-Xylene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Styrene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Bromoform	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
1,1,2,2-Tetrachloroethane	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
General Chemistry Parameters									
Iron, ferrous (mg/L)			0.10 U	0.10 U	0.10 U	0.10 U	0.10 U		
Chloride (mg/L)			3.6	5.3	9.5	7.5	10.3		
Total organic carbon (mg/L)			6.0	6.0	5.9	4.8	4.6		
Sulfate (mg/L)			141	96.2	78.2	88	62.3		
Nitrate as N (mg/L)			2.5	5.3	5.1	6.4	5.1		
Methane (µg/L)			1.1 U	1.1 U	1.1 U	1.1 U	1.4		
Ethane (µg/L)			1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Ethene (µg/L)			1.0 U	1.0 U	1.0 U	1.0 U	1.2		
Carbon dioxide (mg/L)			174	149	150	144	152		
Alkalinity, Total as CaCO ₃ (mg/L)			186	160	168	162	168		
Bicarbonate Alkalinity as CaCO ₃ (mg/L)			186	160	168	162	168		
Carbonate Alkalinity as CaCO ₃ (mg/L)			2.0 U	2.0 U	2.0 U	2.0 U	2.0 U		
Volatile Fatty Acids (mg/L)									
Lactic acid			1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Acetic acid			1.0	1.0 U	1.0 U	1.0 U	1.0 U		
Propionic acid			1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Butyric acid			2.0 U	2.0 U	2.0 U	2.0 U	2.0 U		
Pyruvic acid			0.50 U	0.50 U	0.50 U	0.50 U	0.50 U		

Table 4
Summary of Groundwater Laboratory Analytical Data
Former Bell Aerospace
Textron Inc., Wheatfield, New York

Constituents of Concern (Units)	Groundwater Protection Standard (µg/L)	DW-10							
		10/20/16	11/14/17	1/24/18	2/28/18	3/21/18	6/20/18	September	December
Volatile Organic Compounds (µg/L)									
Chloromethane	5*	10 U	0.24 J	1.0 U	50 U	100 U	50 U		
Vinyl chloride	2	110	2.3	260 D	130	160	38 J		
Chloroethane	5*	10 U	1.0 U	1.0 U	50 U	100 U	50 U		
Bromomethane	5*	10 U	1.0 U	1.0 U	50 U	100 U	50 U		
1,1-Dichloroethene	5*	5.9 J	1.0 U	17.0	50 U	100 U	50 U		
Acetone	50	50 U	1.5 J	4.9 J	250 U	500 U	250 U		
Carbon disulfide	60	10 U	1.0 U	14	50 U	28 J	50 U		
Methylene chloride	5*	2,300 D	170	16,000 D	10,000 D	14,000	5,100		
trans-1,2-Dichloroethene	5*	3.8	1.0 U	12.0	50 U	100 U	50 U		
1,1-Dichloroethane	5*	12	1.0 U	15	50 U	100 U	50 U		
cis-1,2-Dichloroethene	5*	960	17	1,100 D	480	640	130		
2-Butanone	50	50 U	5.0 U	5.0 U	250 U	500 U	250 U		
Chloroform	7	3.4 J	1.0 U	5.4	50 U	93 J	50 U		
1,1,1-Trichloroethane	5*	57	0.48 J	18.0	50 U	100 U	50 U		
Carbon tetrachloride	5	10 U	1.0 U	1.0 U	50 U	100 U	50 U		
Benzene	1	10 U	1.0 U	0.89 J	50 U	100 U	50 U		
1,2-Dichloroethane	0.6	10 U	1.0 U	1.0 U	50 U	100 U	50 U		
Trichloroethene	5*	510	32	36,000 D	8,900	13,000	610		
1,2-Dichloropropane	1	10 U	1.0 U	1.0 U	50 U	100 U	50 U		
Bromodichloromethane	50	10 U	1.0 U	1.0 U	50 U	100 U	50 U		
cis-1,3-Dichloropropene	0.4**	10 U	1.0 U	1.0 U	50 U	100 U	50 U		
4-Methyl-2-pentanone	No Given Value	50 U	5.0 U	5.0 U	250 U	500 U	250 U		
Toluene	5*	10 U	1.0 U	8.0	50 U	100 U	50 U		
trans-1,3-Dichloropropene	0.4**	10 U	1.0 U	1.0 U	50 U	100 U	50 U		
1,1,2-Trichloroethane	1	10 U	1.0 U	0.75 J	50 U	100 U	50 U		
Tetrachloroethene	5*	10 U	1.0 U	8.0	50 U	100 U	50 U		
2-Hexanone	50	50 U	5.0 U	5.0 U	250 U	500 U	250 U		
Dibromochloromethane	50	10 U	1.0 U	1.0 U	50 U	100 U	50 U		
Chlorobenzene	5*	10 U	1.0 U	1.0 U	50 U	100 U	50 U		
Ethylbenzene	5*	10 U	1.0 U	1.4	50 U	100 U	50 U		
m/p-Xylenes	5*	20 U	2.0 U	4.6	100 U	200 U	100 U		
o-Xylene	5*	10 U	1.0 U	1.7	50 U	100 U	50 U		
Styrene	5*	10 U	1.0 U	1.0 U	50 U	100 U	50 U		
Bromoform	50	10 U	1.0 U	1.0 U	50 U	100 U	50 U		
1,1,2,2-Tetrachloroethane	5*	10 U	1.0 U	1.0 U	50 U	100 U	50 U		
General Chemistry Parameters									
Iron, ferrous (mg/L)			0.10 U	4.0 U	3.1	1.0 U	0.18		
Chloride (mg/L)			10.2	35.3	31.6	41.3	30.2		
Total organic carbon (mg/L)			3.3	690	52	141	107		
Sulfate (mg/L)			53	104	88.0	73.8	28.5		
Nitrate as N (mg/L)			2.6	1.0 U	1.0 U	1.0 U	1.0 U		
Methane (µg/L)			1.6	76	47	56	33		
Ethane (µg/L)			1.0 U	7.2	3.7	2.8	30		
Ethene (µg/L)			1.0 U	24	14	20	19		
Carbon dioxide (mg/L)			108	179	152	166	214		
Alkalinity, Total as CaCO ₃ (mg/L)			122	184	170	168	138		
Bicarbonate Alkalinity as CaCO ₃ (mg/L)			122	184	170	168	138		
Carbonate Alkalinity as CaCO ₃ (mg/L)			2.0 U	2.0 U	2.0 U	2.0 U	2.0 U		
Volatile Fatty Acids (mg/L)									
Lactic acid			1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Acetic acid			1.0 U	1.0 U	14	44	56		
Propionic acid			1.0 U	1.0 U	2.9	14	4.0		
Butyric acid			2.0 U	2.0 U	2.0 U	2.5	7.1		
Pyruvic acid			0.50 U	0.50 U	0.50 U	0.50 U	0.50 U		

Table 4
Summary of Groundwater Laboratory Analytical Data
Former Bell Aerospace
Textron Inc., Wheatfield, New York

Constituents of Concern (Units)	Groundwater Protection Standard (µg/L)	DW-11							
		10/20/16	11/13/17	1/23/18	2/27/18	3/20/18	6/19/18	September	December
Volatile Organic Compounds (µg/L)									
Chloromethane	5*	10 U	0.45 J	1.0 U	1.0 U	1.0 U	5.0 U		
Vinyl chloride	2	450	100	13	40	190 D	59		
Chloroethane	5*	10 U	29	1.0 U	1.0 U	1.0 U	5.0 U		
Bromomethane	5*	10 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U		
1,1-Dichloroethene	5*	10 U	1.2	1.0 U	1.0 U	2.2	1.4 J		
Acetone	50	50 U	5.0 U	48	14	2.6 J	22 J		
Carbon disulfide	60	3.4 J	0.35 J	0.39 J	0.48 J	8.8	13		
Methylene chloride	5*	10 U	1.0 U	11	14	72	180		
trans-1,2-Dichloroethene	5*	5.9 J	1.0	1.0 U	1.0 U	1.5	1.7 J		
1,1-Dichloroethane	5*	25	8.6	0.88 J	2.8	17	3.4 J		
cis-1,2-Dichloroethene	5*	1,500	110	23	31	190	630		
2-Butanone	50	50 U	5.0 U	1.0 J	5.0 U	5.0 U	25 U		
Chloroform	7	10 U	1.0 U	1.0 U	1.0 U	1.0 U	2.7 J		
1,1,1-Trichloroethane	5*	110	45	3.3	5.6	58	7.8		
Carbon tetrachloride	5	10 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U		
Benzene	1	10 U	1.0 U	0.84 J	1.0 U	1.0 U	5.0 U		
1,2-Dichloroethane	0.6	10 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U		
Trichloroethene	5*	14	35	520 D	190	1,300 D	180		
1,2-Dichloropropane	1	10 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U		
Bromodichloromethane	50	10 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U		
cis-1,3-Dichloropropene	0.4**	10 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U		
4-Methyl-2-pentanone	No Given Value	50 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U		
Toluene	5*	10 U	1.0 U	0.54 J	0.24 J	1.2	5.0 U		
trans-1,3-Dichloropropene	0.4**	10 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U		
1,1,2-Trichloroethane	1	10 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U		
Tetrachloroethene	5*	10 U	1.0 U	0.46 J	1.0 U	0.55 J	5.0 U		
2-Hexanone	50	50 U	5.0 U	5.0 U	5.0 U	5.0 U	25 U		
Dibromochloromethane	50	10 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U		
Chlorobenzene	5*	10 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U		
Ethylbenzene	5*	10 U	1.0 U	1.0 U	1.0 U	0.22 J	5.0 U		
m/p-Xylenes	5*	20 U	2.0 U	0.56 J	2.0 U	0.78 J	10 U		
o-Xylene	5*	10 U	1.0 U	1.0 U	1.0 U	0.31 J	5.0 U		
Styrene	5*	10 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U		
Bromoform	50	10 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U		
1,1,2,2-Tetrachloroethane	5*	10 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U		
General Chemistry Parameters									
Iron, ferrous (mg/L)			0.10 U	0.76	0.10 U	0.10 U	0.24		
Chloride (mg/L)			321	481	976	580	782		
Total organic carbon (mg/L)			4.1	9.2	6.8	16.8	24.6		
Sulfate (mg/L)			291	409	246	731	167		
Nitrate as N (mg/L)			1.1	2.4	1.0 U	1.0 U	1.0 U		
Methane (µg/L)			30	4.2	2.7	54	69		
Ethane (µg/L)			1.0 U	1.0 U	1.0 U	3.4	1.0		
Ethene (µg/L)			4.2	1.1	1.3	28	40		
Carbon dioxide (mg/L)			222	177	119	292	647		
Alkalinity, Total as CaCO ₃ (mg/L)			245	194	133	310	547		
Bicarbonate Alkalinity as CaCO ₃ (mg/L)			245	194	133	310	547		
Carbonate Alkalinity as CaCO ₃ (mg/L)			2.0 U	2.0 U	2.0 U	2.0 U	2.0 U		
Volatile Fatty Acids (mg/L)									
Lactic acid			1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Acetic acid			1.0 U	1.4	1.0 U	19	19		
Propionic acid			1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Butyric acid			2.0 U	2.0 U	2.0 U	2.0 U	2.0 U		
Pyruvic acid			0.50 U	0.50 U	0.50 U	0.50 U	0.50 U		

Table 4
Summary of Groundwater Laboratory Analytical Data
Former Bell Aerospace
Textron Inc., Wheatfield, New York

Constituents of Concern (Units)	Groundwater Protection Standard (µg/L)	DW-12							
		10/19/16	11/13/17	1/24/18	2/27/18	3/20/18	6/19/18	September	December
Volatile Organic Compounds (µg/L)									
Chloromethane	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Vinyl chloride	2	180	1.0 U	1.0 U	1.0 U	0.45 J	0.51 J		
Chloroethane	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Bromomethane	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
1,1-Dichloroethene	5*	5.2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Acetone	50	5.0 U	2.4 J	5.0 U	1.9 J	5.0 U	5.0 U		
Carbon disulfide	60	0.9 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Methylene chloride	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
trans-1,2-Dichloroethene	5*	15	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
1,1-Dichloroethane	5*	13	1.0 U	1.0 U	1.0 U	0.76 J	1.3		
cis-1,2-Dichloroethene	5*	1,700 D	1.5	2.2	1.1	4.2	7.5		
2-Butanone	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U		
Chloroform	7	1.1	1.0 U	0.35 J	1.0 U	1.0 U	1.0 U		
1,1,1-Trichloroethane	5*	34	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Benzene	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Trichloroethene	5*	83	1.2	0.87 J	0.70 J	1.3	1.3		
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
cis-1,3-Dichloropropene	0.4**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
4-Methyl-2-pentanone	No Given Value	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U		
Toluene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
trans-1,3-Dichloropropene	0.4**	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Tetrachloroethene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
2-Hexanone	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U		
Dibromochloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Chlorobenzene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Ethylbenzene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
m/p-Xylenes	5*	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U		
o-Xylene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Styrene	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Bromoform	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
1,1,2,2-Tetrachloroethane	5*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
General Chemistry Parameters									
Iron, ferrous (mg/L)			0.10 U	0.10 U	0.11	0.10 U	0.34		
Chloride (mg/L)			40.7	1,050	1,100	1,100	322		
Total organic carbon (mg/L)			2.9	2.2	2.2	2.8	3.1		
Sulfate (mg/L)			184	138	92.1	113	282		
Nitrate as N (mg/L)			1.0 U	1.5	1.1	1.1	1.0 U		
Methane (µg/L)			1.1 U	1.0 U	1.0 U	1.1 U	1.1 U		
Ethane (µg/L)			1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Ethene (µg/L)			1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Carbon dioxide (mg/L)			73.1	62.6	56.6	111	204		
Alkalinity, Total as CaCO ₃ (mg/L)			80.4	66.4	64.0	122	212		
Bicarbonate Alkalinity as CaCO ₃ (mg/L)			80.4	66.4	64.0	122	212		
Carbonate Alkalinity as CaCO ₃ (mg/L)			2.0 U	2.0 U	2.0 U	2.0 U	2.0 U		
Volatile Fatty Acids (mg/L)									
Lactic acid			1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Acetic acid			1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Propionic acid			1.0 U	1.0 U	1.0 U	1.0 U	1.0 U		
Butyric acid			2.0 U	2.0 U	2.0 U	2.0 U	2.0 U		
Pyruvic acid			0.50 U	0.50 U	0.50 U	0.50 U	0.50 U		

Table 4
Summary of Groundwater Laboratory Analytical Data
Former Bell Aerospace
Textron Inc., Wheatfield, New York

Notes:

All concentrations reported in micrograms per liter ($\mu\text{g/L}$) or parts per billion (ppb).

* = The principal organic contaminant standard for groundwater of 5 $\mu\text{g/L}$ (described elsewhere in this table) applies to this substance.

** = Applies to the sum of cis- and trans-1,3-dichloropropene, CAS Nos. 10061-01-5 and 10061-02-6, respectively.

Shaded = Compound exceeds Groundwater Protection Standard.

Bold = Compound detected at concentration.

J = Indicates an estimated value below detection limit.

D = Compound analyzed at secondary dilution.

E = Compound exceeds the calibration range.

Table 5
Summary of Groundwater Field Monitoring Data
Former Bell Aerospace
Textron Inc., Wheatfield, New York

Well ID	Field Parameters / Sample Date	11/13/2017	1/23/2018	2/27/2018	3/20/2018	6/19/2018		
87-01(1)	Temperature (°C)	14.63	13.54	13.50	11.61	15.26		
	Conductivity (mS/cm)	2.39	2.232	3.101	2.599	1.830		
	Dissolved Oxygen (mg/L)	2.56	2.01	0.77	0.07	2.86		
	pH (standard units)	7.26	6.7	7.34	7.16	7.06		
	Oxidation-Reduction Potential (mV)	-101	-216.9	-166.4	-181.8	-329.7		
Well ID	Field Parameters / Sample Date	11/13/2017	1/24/2018	2/27/2018	3/20/2018	6/19/2018		
87-02(1)	Temperature (°C)	14.68	11.00	12.44	10.12	14.09		
	Conductivity (mS/cm)	1.772	2.471	2.72	2.596	1.791		
	Dissolved Oxygen (mg/L)	2.78	3.11	0.89	0.06	3.35		
	pH (standard units)	7.31	6.62	6.96	6.9	7.14		
	Oxidation-Reduction Potential (mV)	-21.0	-51	-40.9	-114.5	-230.4		
Well ID	Field Parameters / Sample Date	11/14/2017	1/24/2018	2/28/2018	3/21/2018	6/20/2018		
87-08(1)	Temperature (°C)	11.8	8.66	9.43	7.48	10.23		
	Conductivity (mS/cm)	1.350	0.965	0.974	1.061	0.962		
	Dissolved Oxygen (mg/L)	0.61	3.41	1.88	0.72	2.72		
	pH (standard units)	7.46	7.20	8.18	7.55	7.18		
	Oxidation-Reduction Potential (mV)	-51.8	-105.9	-119.7	-266.2	-222.6		
Well ID	Field Parameters / Sample Date	11/13/2017	1/23/2018	2/27/2018	3/20/2018	6/19/2018		
87-09(1)	Temperature (°C)	14.05	11.37	11.53	9.80	13.04		
	Conductivity (mS/cm)	2.422	2.091	2.167	2.195	1.882		
	Dissolved Oxygen (mg/L)	2.75	3.10	2.94	0.46	6.73		
	pH (standard units)	7.20	7.30	8.07	7.60	7.19		
	Oxidation-Reduction Potential (mV)	-91.0	-174.5	-16.3	-109.4	-162.8		
Well ID	Field Parameters / Sample Date	11/14/2017	1/23/2018	2/27/2018	3/20/2018	6/19/2018		
87-12(1)	Temperature (°C)	14.90	11.66	11.18	8.94	13.44		
	Conductivity (mS/cm)	2.459	2.360	2.16	2.522	1.727		
	Dissolved Oxygen (mg/L)	1.59	1.43	0.14	0.06	0.82		
	pH (standard units)	6.85	7.13	7.96	7.72	6.85		
	Oxidation-Reduction Potential (mV)	-71.3	-292.2	-89.0	-191.6	-320.2		

Table 5
Summary of Groundwater Field Monitoring Data
Former Bell Aerospace
Textron Inc., Wheatfield, New York

Well ID	Field Parameters / Sample Date	11/14/2017	1/24/2018	2/28/2018	3/21/2018	6/20/2018		
87-13(1)	Temperature (°C)	13.90	10.78	11.37	8.76	12.16		
	Conductivity (mS/cm)	1.321	2.725	3.202	3.232	2.978		
	Dissolved Oxygen (mg/L)	0.79	0.54	0.62	0.11	1.82		
	pH (standard units)	7.21	6.65	7.87	6.99	6.47		
	Oxidation-Reduction Potential (mV)	-62.0	-245.8	-213.5	-255.5	-270.0		
Well ID	Field Parameters / Sample Date	11/14/2017	1/24/2018	2/28/2018	3/21/2018	6/20/2018		
87-17(1)	Temperature (°C)	13.56	10.35	11.39	8.91	12.63		
	Conductivity (mS/cm)	2.568	2.184	2.294	2.339	1.961		
	Dissolved Oxygen (mg/L)	4.02	2.48	2.22	0.33	1.27		
	pH (standard units)	7.26	7.12	8.5	7.98	7.25		
	Oxidation-Reduction Potential (mV)	-91.0	-140.0	-99.1	-80.2	-111.1		
Well ID	Field Parameters / Sample Date	11/14/2017	1/23/2018	2/27/2018	3/20/2018	6/19/2018		
87-20(1)	Temperature (°C)	13.95	11.68	10.83	8.76	11.35		
	Conductivity (mS/cm)	1.953	2.285	2.547	2.505	1.761		
	Dissolved Oxygen (mg/L)	0.47	2.79	1.29	0.36	0.24		
	pH (standard units)	7.31	7.07	7.96	7.92	6.9		
	Oxidation-Reduction Potential (mV)	-39.0	-258.1	-77.6	-176.7	-172.3		
Well ID	Field Parameters / Sample Date	11/14/2017	1/23/2018	2/27/2018	3/20/2018	6/19/2018		
87-22(1)	Temperature (°C)	11.33	9.74	9.54	8.31	11.35		
	Conductivity (mS/cm)	2.414	2.365	2.195	2.315	1.959		
	Dissolved Oxygen (mg/L)	4.12	3.59	3.50	0.64	0.91		
	pH (standard units)	7.08	7.11	7.81	7.92	6.80		
	Oxidation-Reduction Potential (mV)	-81.0	-172.1	-22.1	-109.0	-164.5		
Well ID	Field Parameters / Sample Date	11/13/2017	1/23/2018	2/27/2018	3/20/2018	6/19/2018		
89-10(1)	Temperature (°C)	14.23	11.48	12.11	9.85	13.57		
	Conductivity (mS/cm)	1.964	3.017	4.245	3.433	1.812		
	Dissolved Oxygen (mg/L)	1.93	1.17	NM	0.12	2.29		
	pH (standard units)	7.29	6.85	7.82	7.27	7.10		
	Oxidation-Reduction Potential (mV)	-73.2	-293.4	-116.7	-189.9	-306.3		

Table 5
Summary of Groundwater Field Monitoring Data
Former Bell Aerospace
Textron Inc., Wheatfield, New York

Well ID	Field Parameters / Sample Date	11/13/2017	1/23/2018	2/27/2018	3/20/2018	6/19/2018		
89-12(1)	Temperature (°C)	13.61	11.52	11.43	9.49	13.38		
	Conductivity (mS/cm)	1.773	2.732	3.156	3.009	1.997		
	Dissolved Oxygen (mg/L)	2.71	2.01	0.48	0.29	2.87		
	pH (standard units)	7.37	7.20	7.95	7.70	7.16		
	Oxidation-Reduction Potential (mV)	-35.3	-291.7	-98.6	-167.4	-291.8		
Well ID	Field Parameters / Sample Date	11/14/2017	1/24/2018	2/28/2018	3/21/2018	6/20/2018		
89-15(1)	Temperature (°C)	14.24	10.46	10.68	9.03	13.90		
	Conductivity (mS/cm)	1.545	1.211	1.316	1.326	1.514		
	Dissolved Oxygen (mg/L)	1.74	0.68	2.73	0.34	1.74		
	pH (standard units)	7.39	6.74	8.06	7.20	7.58		
	Oxidation-Reduction Potential (mV)	-20.3	-153.8	-130.4	-223.9	-242.0		
Well ID	Field Parameters / Sample Date	11/14/2017	1/24/2018	2/28/2018	3/21/2018	6/20/2018		
B-10A(1)	Temperature (°C)	10.94	7.10	10.16	6.54	12.78		
	Conductivity (mS/cm)	0.739	1.182	1.328	1.220	1.196		
	Dissolved Oxygen (mg/L)	6.59	3.32	5.41	0.79	3.45		
	pH (standard units)	8.55	7.64	8.64	7.85	7.25		
	Oxidation-Reduction Potential (mV)	-113.8	-96.2	-8.9	-257.6	-126.2		
Well ID	Field Parameters / Sample Date	11/13/2017	1/23/2018	2/27/2018	3/20/2018	6/19/2018		
B-14(1)	Temperature (°C)	12.42	9.67	10.58	8.25	13.21		
	Conductivity (mS/cm)	2.422	2.101	2.181	2.192	1.889		
	Dissolved Oxygen (mg/L)	3.40	3.85	3.98	0.51	6.32		
	pH (standard units)	7.26	7.27	8.23	7.57	7.26		
	Oxidation-Reduction Potential (mV)	-92.9	-176.1	-17.1	-101.0	-184.4		
Well ID	Field Parameters / Sample Date	11/14/2017	1/24/2018	2/28/2018	3/21/2018	6/20/2018		
DW-9	Temperature (°C)	NM	2.83	4.16	2.73	10.49		
	Conductivity (mS/cm)	NM	0.531	0.505	0.524	0.345		
	Dissolved Oxygen (mg/L)	NM	0.54	8.93	2.47	5.99		
	pH (standard units)	NM	7.58	8.28	8.24	7.84		
	Oxidation-Reduction Potential (mV)	NM	40.3	-22.4	-169.0	-7.8		

Table 5
Summary of Groundwater Field Monitoring Data
Former Bell Aerospace
Textron Inc., Wheatfield, New York

Well ID	Field Parameters / Sample Date	11/14/2017	1/24/2018	2/28/2018	3/21/2018	6/20/2018		
DW-10	Temperature (°C)	13.65	8.53	8.76	6.73	12.23		
	Conductivity (mS/cm)	0.420	0.593	0.565	0.580	0.379		
	Dissolved Oxygen (mg/L)	8.76	1.30	5.26	0.53	6.81		
	pH (standard units)	8.39	7.32	8.21	7.26	6.47		
	Oxidation-Reduction Potential (mV)	34.2	-17.0	-22.7	-193.2	-188.5		
Well ID	Field Parameters / Sample Date	11/13/2017	1/23/2018	2/27/2018	3/20/2018	6/19/2018		
DW-11	Temperature (°C)	15.42	6.30	8.88	8.62	13.65		
	Conductivity (mS/cm)	2.219	1.089	3.369	3.223	2.656		
	Dissolved Oxygen (mg/L)	NM	3.45	2.19	0.30	0.94		
	pH (standard units)	8.04	7.78	8.13	7.50	6.82		
	Oxidation-Reduction Potential (mV)	NM	-185.7	-13.4	-153.6	-321.6		
Well ID	Field Parameters / Sample Date	11/13/2017	1/24/2018	2/27/2018	3/20/2018	6/19/2018		
DW-12	Temperature (°C)	15.64	4.58	6.72	7.83	14.26		
	Conductivity (mS/cm)	0.697	3.443	3.348	3.218	1.607		
	Dissolved Oxygen (mg/L)	NM	8.95	8.34	0.52	3.66		
	pH (standard units)	8.05	7.50	8.70	7.83	7.37		
	Oxidation-Reduction Potential (mV)	NM	-12.6	14.6	-117.3	-151.2		

Notes

Field parameter = value recorded at time of sample collection.

NM = Not measured.

°C = Degrees Celsius.

mS/cm = Millisiemens per centimeter.

mg/L = Milligrams per liter.

mV = Millivolts.

NTU = Nephelometric turbidity units.

Table 6
Summary of Groundwater Elevation Data
Former Bell Aerospace
Textron Inc., Wheatfield, New York

Well ID	87-01(1)		87-02(1)		87-08(1)		87-09(1)		87-12(1)		87-13(1)	
Casing Elevation (ft msl) ¹	587.99		589.21		589.48		588.13		583.84		590.06	
Groundwater Measurement Date	Depth to Water (ft)	Groundwater Elevation (ft msl)	Depth to Water (ft)	Groundwater Elevation (ft msl)	Depth to Water (ft)	Groundwater Elevation (ft msl)	Depth to Water (ft)	Groundwater Elevation (ft msl)	Depth to Water (ft)	Groundwater Elevation (ft msl)	Depth to Water (ft)	Groundwater Elevation (ft msl)
11/17/17	17.31	570.68	15.67	573.54	13.76	575.72	11.80	576.33	16.03	567.81	14.98	575.08
12/20/17	16.77	571.22	14.82	574.39	13.09	576.39	11.33	576.80	15.23	568.61	14.67	575.39
01/18/18	15.07	572.92	13.47	575.74	11.56	577.92	9.74	578.39	13.17	570.67	12.76	577.30
02/18/18	15.41	572.58	13.83	575.38	11.63	577.85	9.94	578.19	14.01	569.83	12.80	577.26
03/18/18	16.34	571.65	14.82	574.39	12.02	577.46	10.57	577.56	14.97	568.87	13.38	576.68
04/18/18	12.95	575.04	11.05	578.16	9.17	580.31			11.79	572.05	10.25	579.81
06/19/18	18.14	569.85	15.27	573.94	12.28	577.20	11.62	576.51	17.35	566.49	12.81	577.25
09/18/18		587.99		589.21		589.48		588.13		583.84		590.06
12/18/18		587.99		589.21		589.48		588.13		583.84		590.06

Footnotes:

¹ - ft msl = Feet above mean sea level.

Table 6
Summary of Groundwater Elevation Data
Former Bell Aerospace
Textron Inc., Wheatfield, New York

Well ID	87-17(1)		87-20(1)		87-22(1)		89-10(1)		89-12(1)		89-15(1)	
Casing Elevation (ft msl) ¹	589.62		579.01		583.97		587.17		586.62		588.76	
Groundwater Measurement Date	Depth to Water (ft)	Groundwater Elevation (ft msl)	Depth to Water (ft)	Groundwater Elevation (ft msl)	Depth to Water (ft)	Groundwater Elevation (ft msl)	Depth to Water (ft)	Groundwater Elevation (ft msl)	Depth to Water (ft)	Groundwater Elevation (ft msl)	Depth to Water (ft)	Groundwater Elevation (ft msl)
11/17/17	12.23	577.39	11.16	567.85	15.91	568.06	13.69	573.48	14.24	572.38	14.01	574.75
12/20/17	11.82	577.80	10.41	568.60	15.28	568.69	13.06	574.11	14.25	572.37	14.67	574.09
01/18/18	10.40	579.22	8.21	570.80	13.44	570.53	12.00	575.17	12.95	573.67	12.07	576.69
02/18/18	10.57	579.05	9.14	569.87	14.09	569.88	12.60	574.57	13.63	572.99	12.78	575.98
03/18/18	11.09	578.53	10.13	568.88	14.82	569.15	13.42	573.75	14.47	572.15	13.13	575.63
04/18/18	8.93	580.69	6.94	572.07	12.23	571.74			11.30	575.32	9.91	578.85
06/19/18	11.59	578.03	12.47	566.54	17.65	566.32	13.61	573.56	16.05	570.57	12.21	576.55
09/18/18		589.62		579.01		583.97		587.17		586.62		588.76
12/18/18		589.62		579.01		583.97		587.17		586.62		588.76

Footnotes:

¹ - ft msl = Feet above mean sea level.

Table 6
Summary of Groundwater Elevation Data
Former Bell Aerospace
Textron Inc., Wheatfield, New York

Well ID	B-10A		B-14(1)		DW-9		DW-10		DW-11		DW-12	
Casing Elevation (ft msl) ¹	589.29		589.54		581.30		583.95		583.05		580.48	
Groundwater Measurement Date	Depth to Water (ft)	Groundwater Elevation (ft msl)	Depth to Water (ft)	Groundwater Elevation (ft msl)	Depth to Water (ft)	Groundwater Elevation (ft msl)	Depth to Water (ft)	Groundwater Elevation (ft msl)	Depth to Water (ft)	Groundwater Elevation (ft msl)	Depth to Water (ft)	Groundwater Elevation (ft msl)
11/17/17	12.39	576.90	15.35	574.19	5.35	575.95	8.87	575.08	7.77	575.28	7.47	573.01
12/20/17	12.12	577.17	14.69	574.85	4.25	577.05	8.45	575.5	7.00	576.05	6.69	573.79
01/18/18	10.59	578.70	12.38	577.16	2.00	579.30	6.54	577.41	5.12	577.93	3.13	577.35
02/18/18	10.65	578.64	12.89	576.65	2.50	578.80	7.93	576.02	5.09	577.96	3.93	576.55
03/18/18	11.08	578.21	13.48	576.06	3.63	577.67	7.42	576.53	5.71	577.34	4.54	575.94
04/18/18			10.51	579.03	0.61	580.69	4.12	579.83	2.45	580.60	0.47	580.01
06/19/18	11.45	577.84	13.69	575.85	4.06	577.24	6.11	577.84	6.50	576.55	4.93	575.55
09/18/18		589.29		589.54		581.30		583.95		583.05		580.48
12/18/18		589.29		589.54		581.30		583.95		583.05		580.48

Footnotes:

¹ - ft msl = Feet above mean sea level.

Table 7
2019 Bioremediation Sampling Program
Former Bell Aerospace
Textron Inc., Wheatfield, New York

Sample ID	Bioremediation Program VOCs + Biologics 2nd & 4th Quarter	Requirements for BAT Annual samples 8260
BAT-87-01(1)-1906	X	CHLOROMETHANE
BAT-87-02(1)-1906	X	VINYL CHLORIDE
BAT-87-08(1)-1906	X	CHLOROETHANE
BAT-87-09(1)-1906	X	BROMOMETHANE
BAT-87-12(1)-1906	X	1 1-DICHLOROETHENE
BAT-87-13(1)-1906	X	ACETONE
BAT-87-17(1)-1906	X	CARBON DISULFIDE
BAT-87-20(1)-1906	X	METHYLENE CHLORIDE
BAT-87-22(1)-1906	X	TRANS-1 2-DICHLOROETHENE
BAT-89-10(1)-1906	X	1 1-DICHLOROETHANE
BAT-89-12(1)-1906	X	CIS-1 2-DICHLOROETHENE
BAT-89-15(1)-1906	X	METHYL ETHYL KETONE
BAT-B-10A(1)-1906	X	CHLOROFORM
BAT-B-14(1)-1906	X	1 1 1-TRICHLOROETHANE
BAT-DW-9-1906	X	CARBON TETRACHLORIDE
BAT-DW-10-1906	X	BENZENE
BAT-DW-11-1906	X	1 2-DICHLOROETHANE
BAT-DW-12-1906	X	TRICHLOROETHENE
		1 2-DICHLOROPROPANE
		BROMODICHLOROMETHANE
		CIS-1 3-DICHLOROPROPENE
		MIBK
		TOLUENE
		TRANS-1 3-DICHLOROPROPENE
		1 1 2-TRICHLOROETHANE
		TETRACHLOROETHENE
		2-HEXANONE
		DIBROMOCHLOROMETHANE
		CHLOROBENZENE
		ETHYLBENZENE
		P-XYLENE/M-XYLENE
		O-XYLENE
		STYRENE
		BROMOFORM
		1 1 2 2-TETRACHLOROETHANE

Biological Parameters	USEPA Method 2Q & 4Q
VOCs	8260
Total Organic Carbon	5310C
Ethene, Ethane, Methane	V8015
Sulfate	9056A
Chloride	9056A
Nitrate	9056A

Field Parameters	2Q & 4Q Events
Oxidation-Reduction Potential	Field Measurement via YSI Model 556 handheld screening instrument or equivalent
Dissolved Oxygen	
Specific Conductivity	
Temperature	
pH	

Low flow sampling protocols to be followed during groundwater sampling for the bioremediation program.

Schedule to be June & December.

Figures

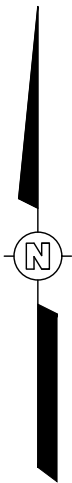
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 Plotted By: Evan.Schlegel

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LEGEND:



 AREA OF FOCUSED IN-SITU
 BIOREMEDIATION ACTIVITIES



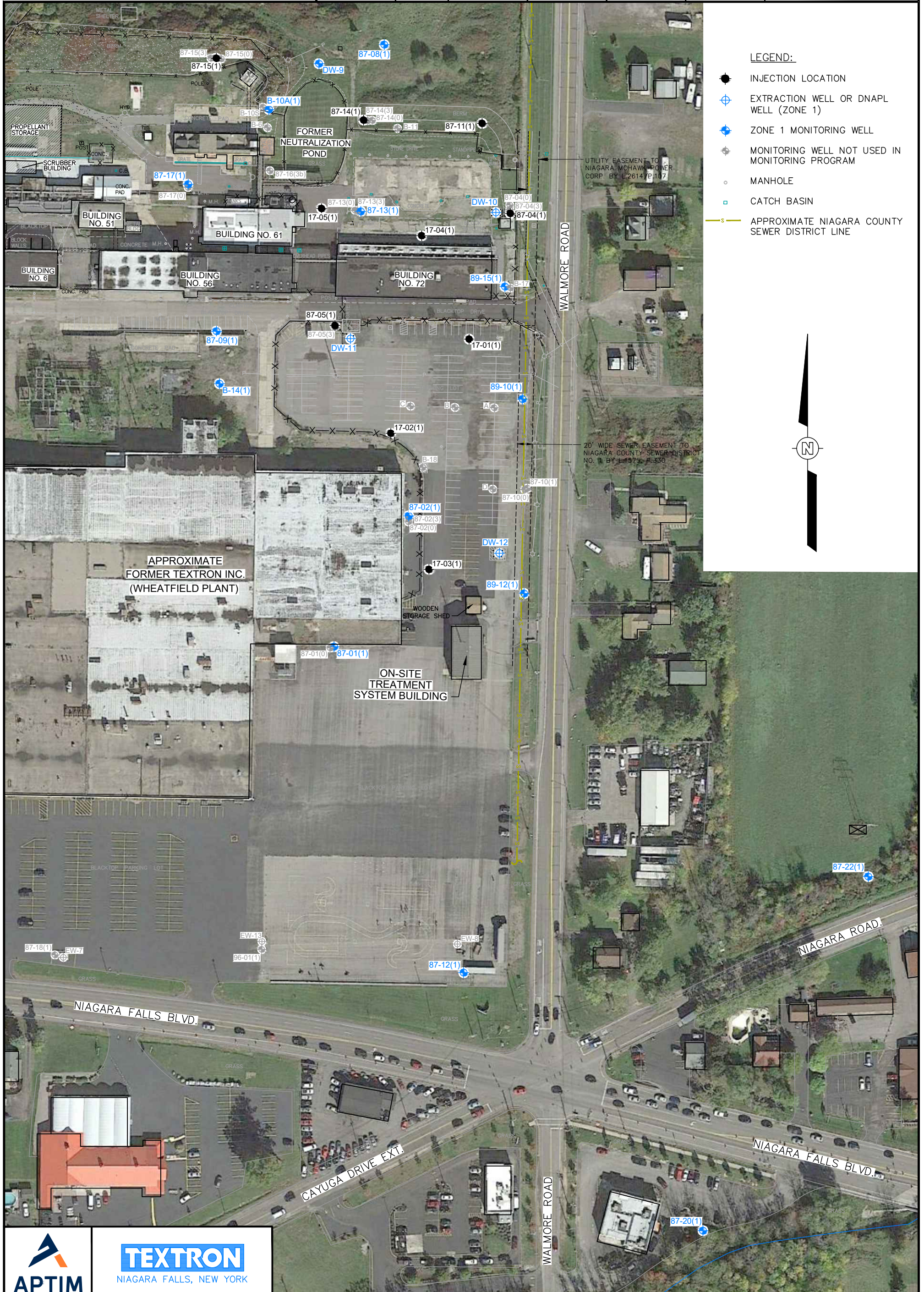
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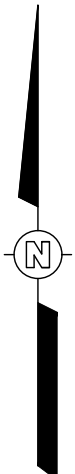
	 NIAGARA FALLS, NEW YORK
<p align="center">FIGURE 1</p> <p align="center">SITE LOCATION MAP</p> <p align="center">2221 NIAGARA FALLS BOULEVARD NIAGARA FALLS, NEW YORK</p>	

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LEGEND:

- INJECTION LOCATION
- ⊕ EXTRACTION WELL OR DNAPL WELL (ZONE 1)
- ⊕ ZONE 1 MONITORING WELL
- ⊕ MONITORING WELL NOT USED IN MONITORING PROGRAM
- MANHOLE
- CATCH BASIN
- APPROXIMATE NIAGARA COUNTY SEWER DISTRICT LINE

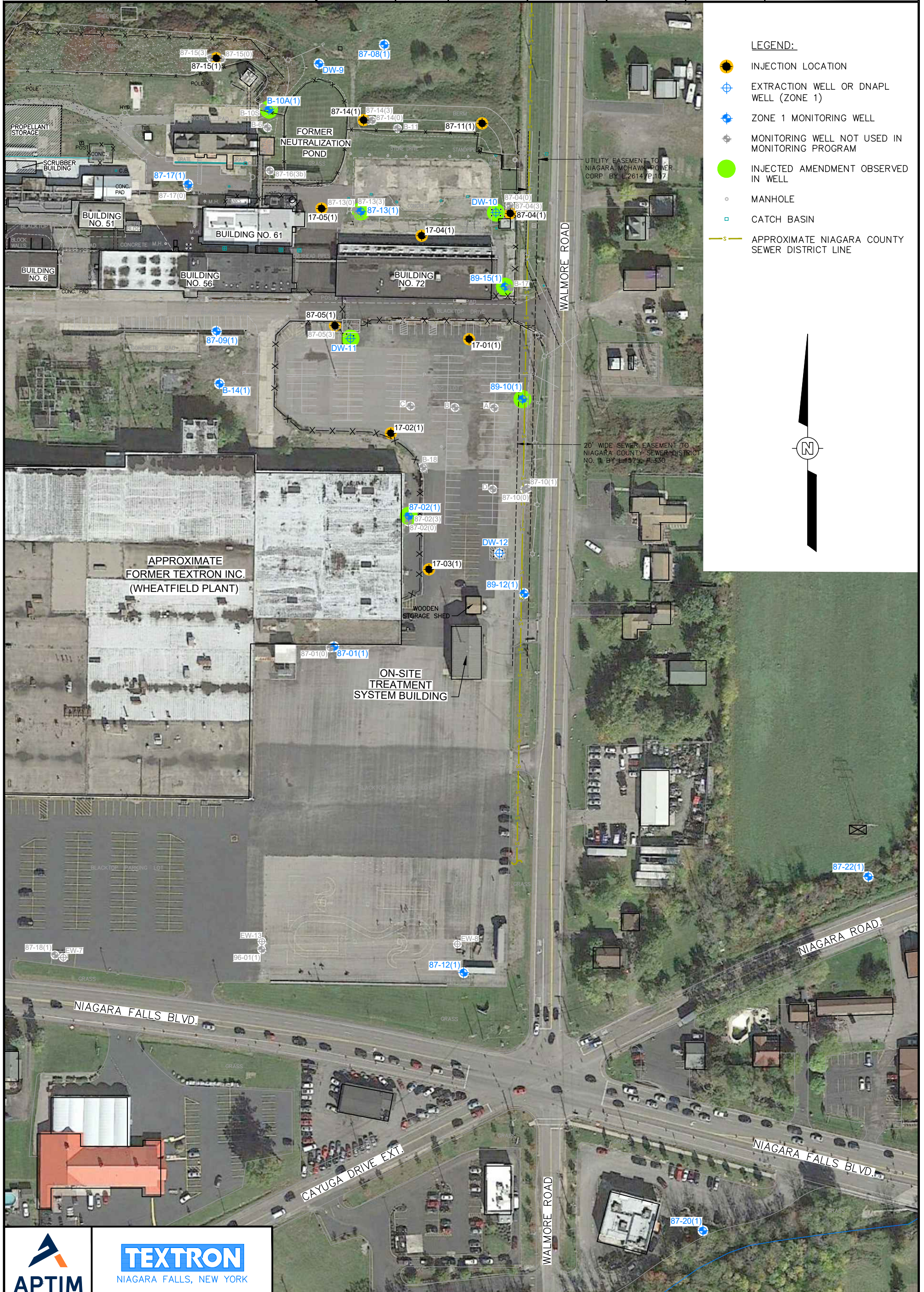


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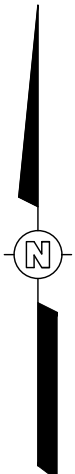


FIGURE 2
GROUNDWATER
MONITORING NETWORK
 2221 NIAGARA FALLS BOULEVARD
 NIAGARA FALLS, NEW YORK

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- LEGEND:**
- INJECTION LOCATION
 - ⊕ EXTRACTION WELL OR DNAPL WELL (ZONE 1)
 - ⊕ ZONE 1 MONITORING WELL
 - ⊕ MONITORING WELL NOT USED IN MONITORING PROGRAM
 - INJECTED AMENDMENT OBSERVED IN WELL
 - MANHOLE
 - CATCH BASIN
 - APPROXIMATE NIAGARA COUNTY SEWER DISTRICT LINE



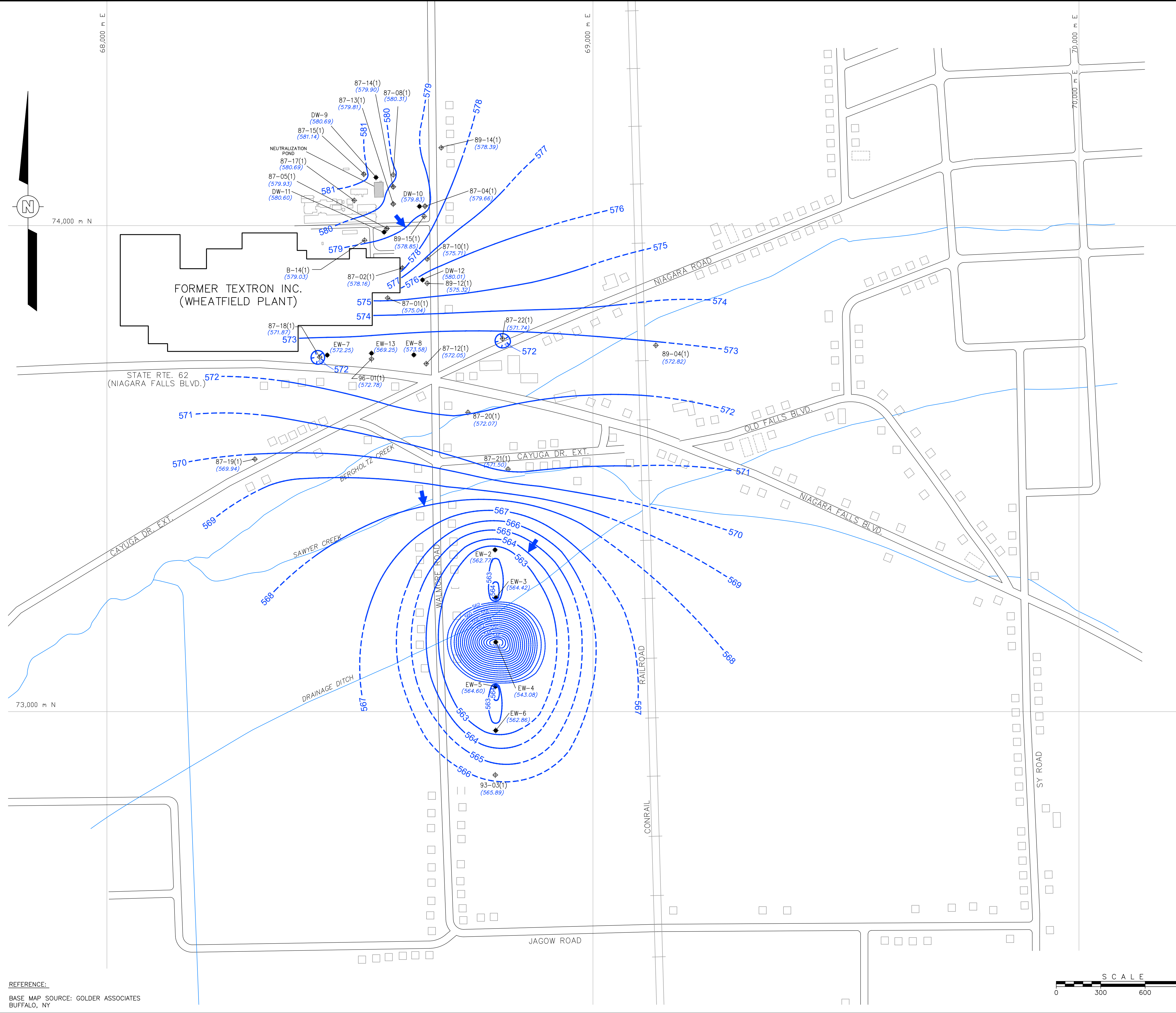
REFERENCE:
 DERIVED FROM FONTANESE, FOLTS, AUBRECHT, AND ERNST ARCHITECTS, "MOOG INC.-PROJECT BELL-SITE PLAN", DATED JUNE 12, 2017.



FIGURE 3
INJECTED AMENDMENT DISPERSAL
 2221 NIAGARA FALLS BOULEVARD
 NIAGARA FALLS, NEW YORK

OFFICE: Pittsburgh, PA
 DRAWN BY: E. Schlegel
 CHECKED BY: C. Byers
 APPROVED BY:
 DRAWING NUMBER: 631232612-D1


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 Plot Date/Time: Sep 25, 2018 - 11:58am
 Plotted By: Exam.Schlegel




- LEGEND:**
- ◆ EXTRACTION WELL OR DNAPL WELL
 - ⊕ MONITORING WELL OR PIEZOMETER
 - 573 — POTENTIOMETRIC ELEVATION CONTOUR IN FEET MEAN SEA LEVEL (DASHED WHERE INFERRED)
 - (579.66) WATER LEVEL ELEVATIONS AT MONITORING OR EXTRACTION WELL IN FEET MEAN SEA LEVEL.
 - ➔ DIRECTION OF GROUNDWATER FLOW IN ZONE 1

- NOTES:**
1. GRID SYSTEM SHOWN IS 1000-METER UNIVERSAL TRANSVERSE MERCATOR GRID, ZONE 17, 1927 NORTH AMERICAN DATUM.
 2. REFERENCE: U.S. GEOLOGICAL SURVEY, TONAWANDA WEST NEW YORK 7.5' QUADRANGLE, DATED 1980.
 3. WELL LOCATIONS SHOWN ARE APPROXIMATE.
 4. WATER LEVEL MEASUREMENTS OBTAINED ON APRIL 18-19, 2018.
 5. ONLY WELL LOCATIONS WITH AN ELEVATION LISTED ARE USED IN MAP CONTOURING.
 6. CONTOURS BETWEEN KNOWN POINTS HAVE BEEN INTERPOLATED.
 7. ON-SITE GROUNDWATER TREATMENT SYSTEM NOT OPERATING (DW-9, DW-10, DW-11, DW-12, EW-7, EW-8, AND EW-13) NOT USED FOR CONTOURS.

REFERENCE:
 BASE MAP SOURCE: GOLDR ASSOCIATES
 BUFFALO, NY



APTIM

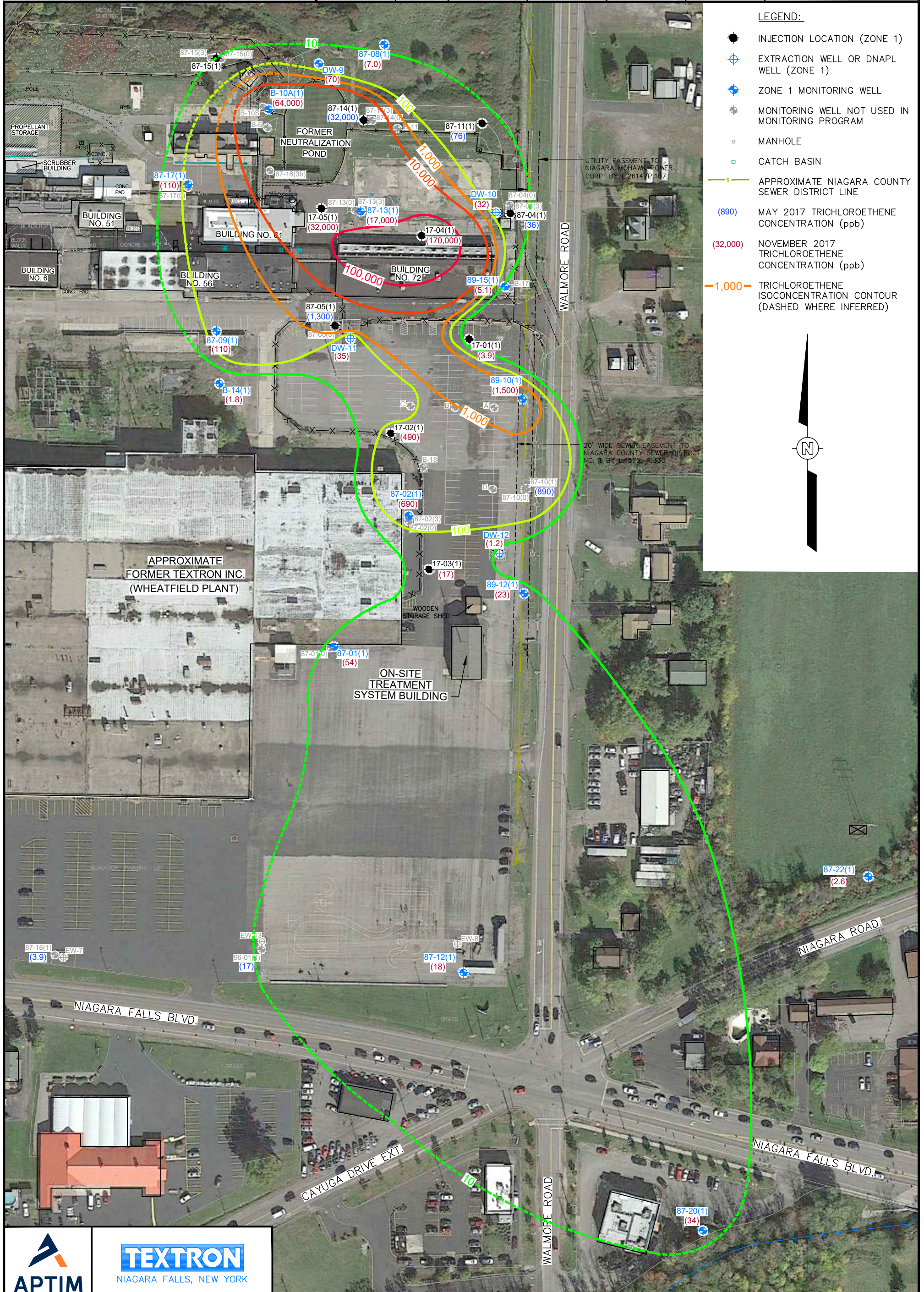


TEXTRON
 NIAGARA FALLS, NEW YORK

FIGURE 4
GROUNDWATER ELEVATION CONTOUR MAP
ZONE 1 BEDROCK - APRIL 2018

2221 NIAGARA FALLS BOULEVARD
 NIAGARA FALLS, NEW YORK

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LEGEND:

- INJECTION LOCATION (ZONE 1)
- ⊕ EXTRACTION WELL OR DNAPL WELL (ZONE 1)
- ⊕ ZONE 1 MONITORING WELL
- ⊕ MONITORING WELL NOT USED IN MONITORING PROGRAM
- MANHOLE
- CATCH BASIN
- APPROXIMATE NIAGARA COUNTY SEWER DISTRICT LINE
- (890) MAY 2017 TRICHLOROETHENE CONCENTRATION (ppb)
- (32,000) NOVEMBER 2017 TRICHLOROETHENE CONCENTRATION (ppb)
- 1,000- TRICHLOROETHENE ISOCONCENTRATION CONTOUR (DASHED WHERE INFERRED)

APTIM

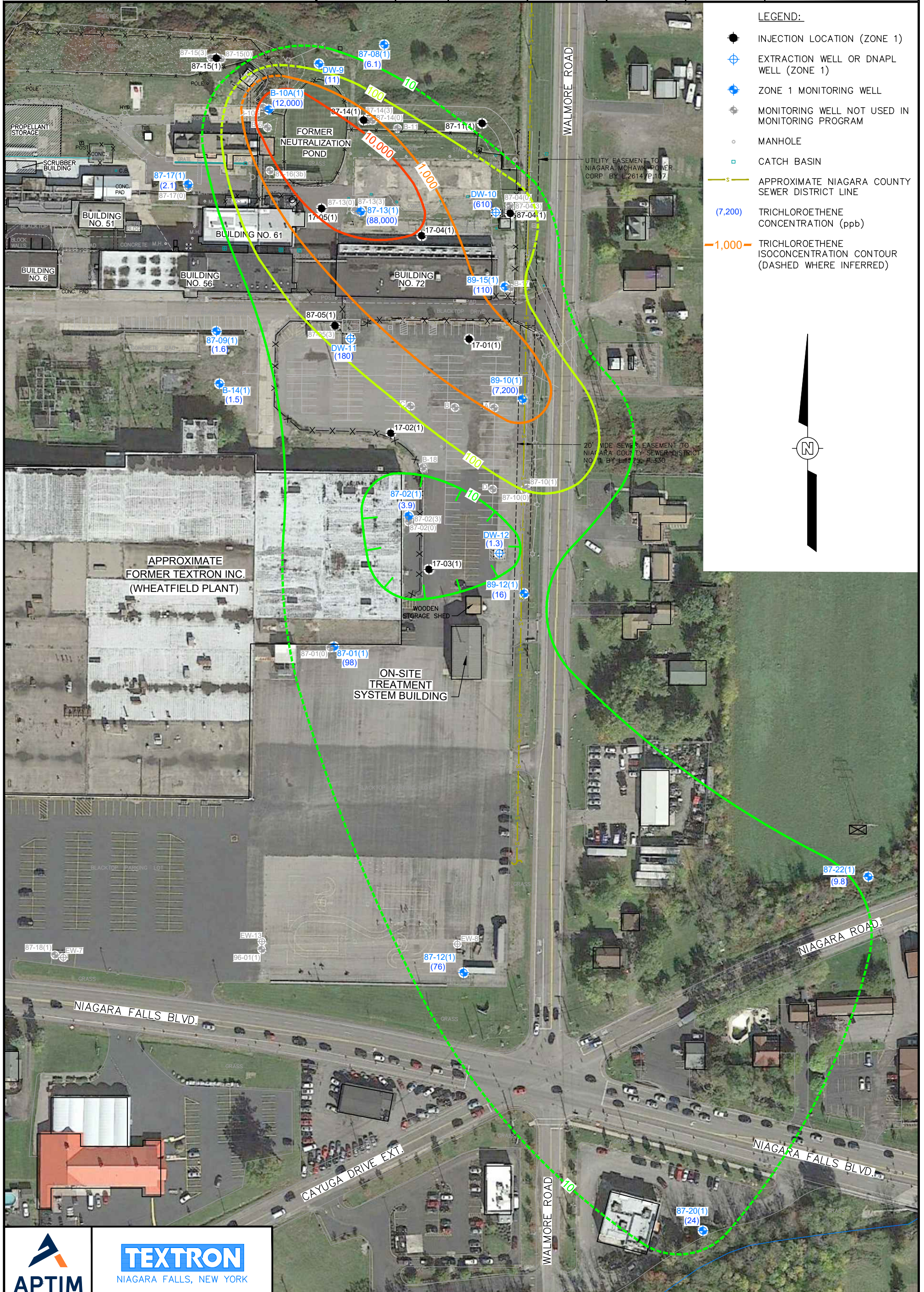
TEXTRON
NIAGARA FALLS, NEW YORK

FIGURE 5
TRICHLOROETHENE CONCENTRATION MAP
 ZONE 1 BEDROCK - PRE-INJECTION CONDITIONS
 (MAY AND NOVEMBER 2017)
 2221 NIAGARA FALLS BOULEVARD
 NIAGARA FALLS, NEW YORK



REFERENCE:
 DERIVED FROM FONTANESE, FOLTS, AUBRECHT, AND ERNST ARCHITECTS, "MOOG INC.-PROJECT BELL-SITE PLAN", DATED JUNE 12, 2017.

OFFICE	DATE	DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NUMBER
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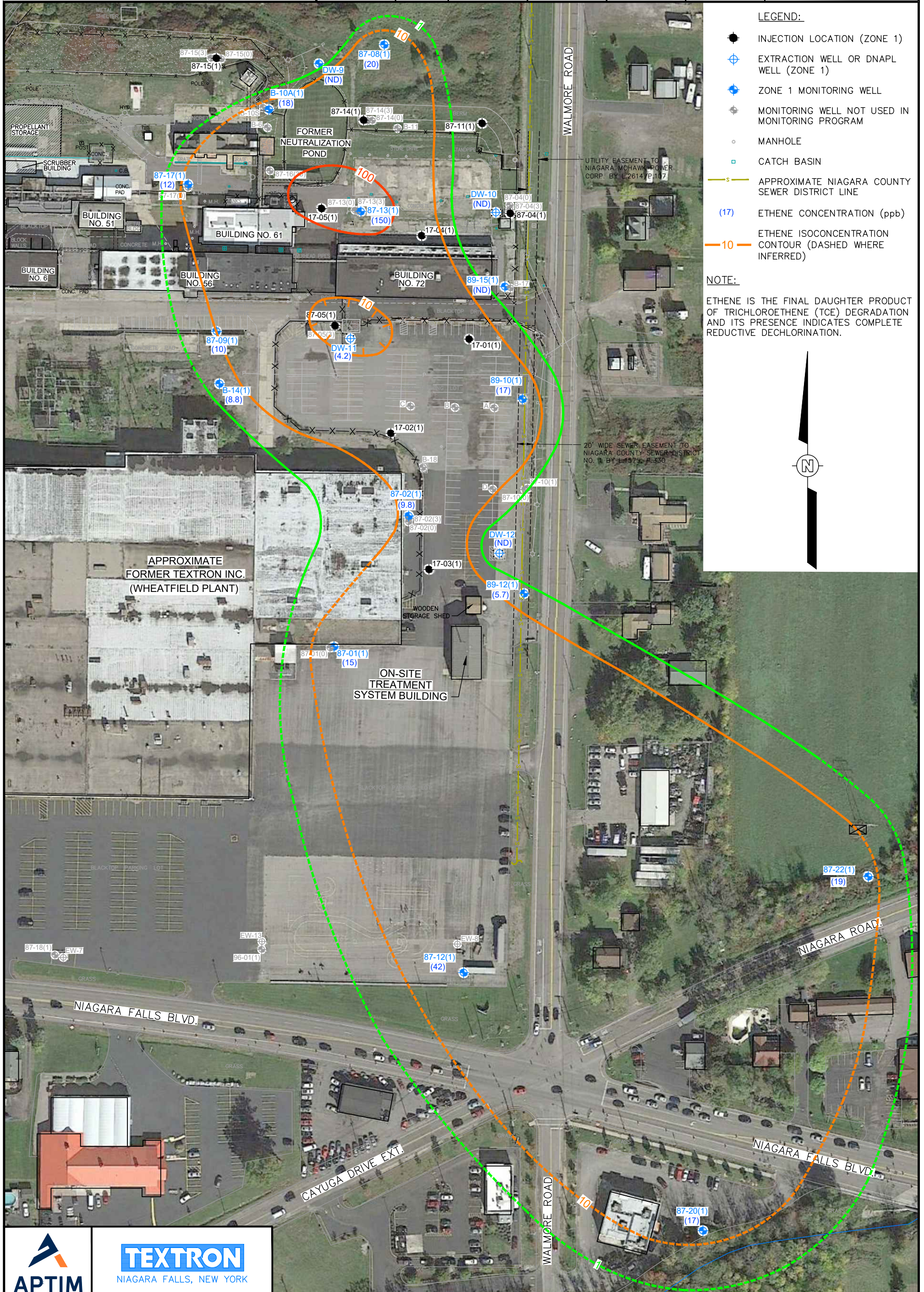
APTIM **TEXTRON**
 NIAGARA FALLS, NEW YORK

FIGURE 6
 TRICHLOROETHENE CONCENTRATION MAP
 ZONE 1 BEDROCK
 POST-INJECTION CONDITIONS (JUNE 2018)
 2221 NIAGARA FALLS BOULEVARD
 NIAGARA FALLS, NEW YORK



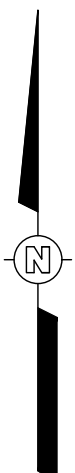
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- LEGEND:**
- INJECTION LOCATION (ZONE 1)
 - EXTRACTION WELL OR DNAPL WELL (ZONE 1)
 - ZONE 1 MONITORING WELL
 - MONITORING WELL NOT USED IN MONITORING PROGRAM
 - MANHOLE
 - CATCH BASIN
 - APPROXIMATE NIAGARA COUNTY SEWER DISTRICT LINE
 - (17) ETHENE CONCENTRATION (ppb)
 - 10 ETHENE ISOCONCENTRATION CONTOUR (DASHED WHERE INFERRED)

NOTE:
 ETHENE IS THE FINAL DAUGHTER PRODUCT OF TRICHLOROETHENE (TCE) DEGRADATION AND ITS PRESENCE INDICATES COMPLETE REDUCTIVE DECHLORINATION.



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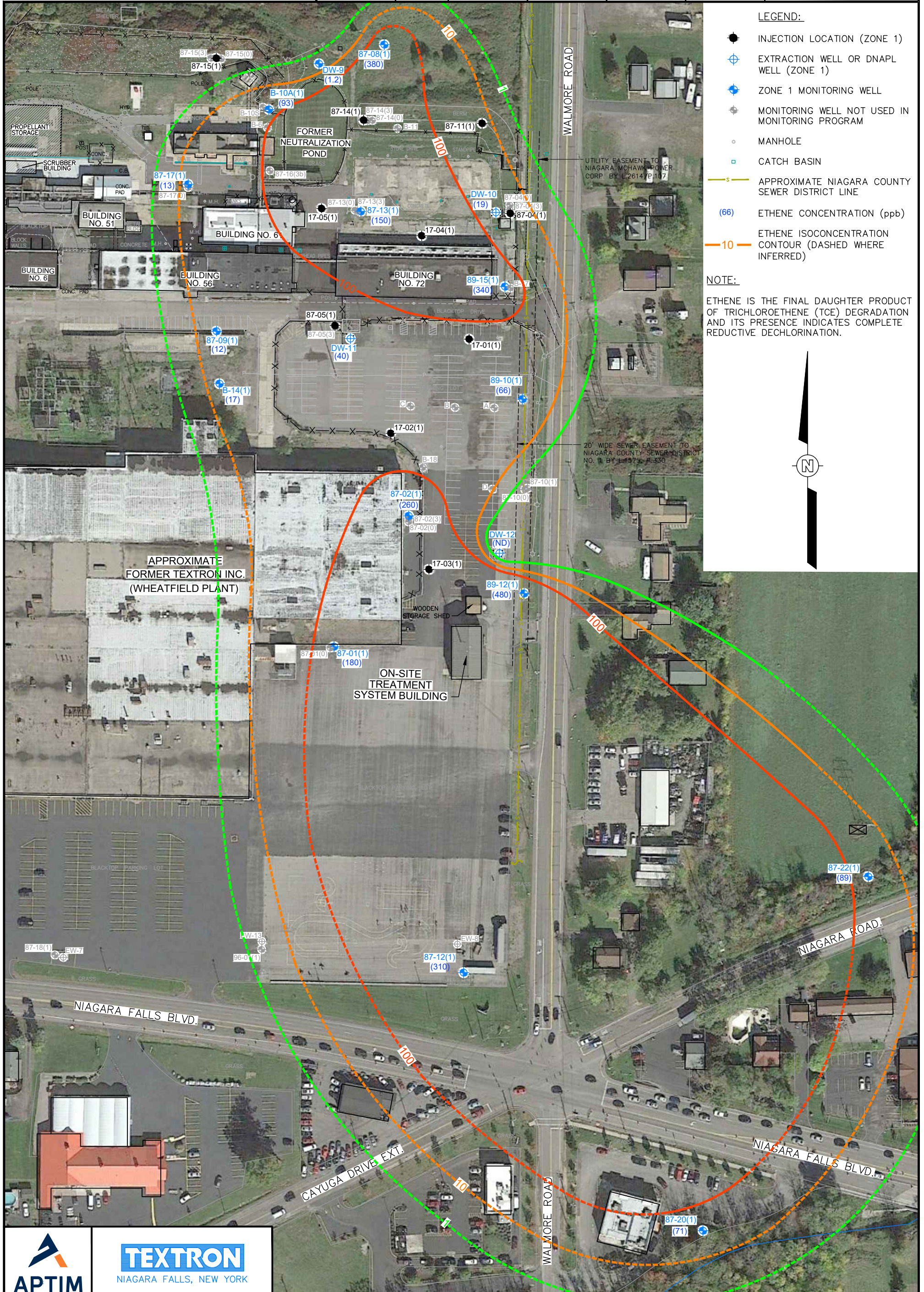
TEXTRON
 NIAGARA FALLS, NEW YORK

FIGURE 7
 ETHENE CONCENTRATION MAP
 ZONE 1 BEDROCK
 PRE-INJECTION CONDITIONS (NOVEMBER 2017)
 2221 NIAGARA FALLS BOULEVARD
 NIAGARA FALLS, NEW YORK



REFERENCE:
 DERIVED FROM FONTANESE, FOLTS, AUBRECHT, AND ERNST ARCHITECTS, "MOOG INC.-PROJECT BELL-SITE PLAN", DATED JUNE 12, 2017.

OFFICE	DATE	DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY	DRAWING NUMBER
Pittsburgh, PA	9/25/18	--	E. Schlegel	C. Byers	--	631232612-B6

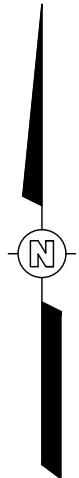



LEGEND:

- INJECTION LOCATION (ZONE 1)
- ⊕ EXTRACTION WELL OR DNAPL WELL (ZONE 1)
- ⊕ ZONE 1 MONITORING WELL
- ⊕ MONITORING WELL NOT USED IN MONITORING PROGRAM
- MANHOLE
- CATCH BASIN
- APPROXIMATE NIAGARA COUNTY SEWER DISTRICT LINE
- (66) ETHENE CONCENTRATION (ppb)
- 10— ETHENE ISOCONCENTRATION CONTOUR (DASHED WHERE INFERRED)


NOTE:

ETHENE IS THE FINAL DAUGHTER PRODUCT OF TRICHLOROETHENE (TCE) DEGRADATION AND ITS PRESENCE INDICATES COMPLETE REDUCTIVE DECHLORINATION.





APTIM



TEXTRON
NIAGARA FALLS, NEW YORK

FIGURE 8
ETHENE CONCENTRATION MAP
ZONE 1 BEDROCK
POST-INJECTION CONDITIONS (JUNE 2018)
 2221 NIAGARA FALLS BOULEVARD
 NIAGARA FALLS, NEW YORK



REFERENCE:

DERIVED FROM FONTANESE, FOLTS, AUBRECHT, AND ERNST ARCHITECTS, "MOOG INC.-PROJECT BELL-SITE PLAN", DATED JUNE 12, 2017.

Appendix A

TCE Degradation Information

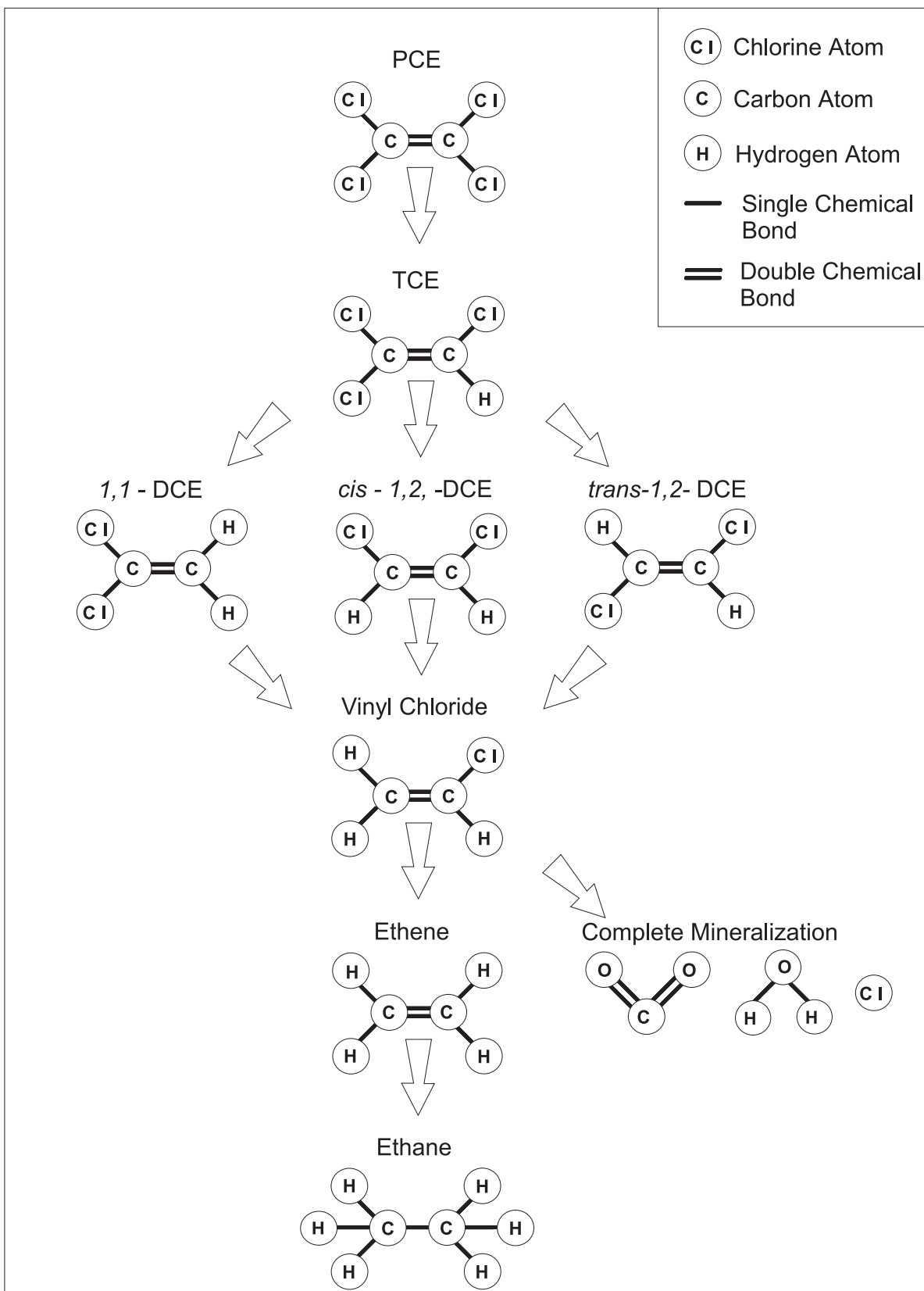


Figure 2.2 Reductive dehalogenation of chlorinated ethenes.

Appendix B

Laboratory Analytical Data Packages



February 06, 2018

Service Request No:R1800602

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

Laboratory Results for: Textron Injection

Dear Ms.Byers,

Enclosed are the results of the sample(s) submitted to our laboratory January 24, 2018
For your reference, these analyses have been assigned our service request number **R1800602**.

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



Client: APTIM, Inc
Project: Textron Injection
Sample Matrix: Water

Service Request: R1800602
Date Received: 01/23/2018 - 01/24/2018

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:

Nineteen water samples were received for analysis at ALS Environmental on 01/23/2018 - 01/24/2018. 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. Per client request, measurements made in the field are included on this report, but were not performed by ALS personnel. The field results were transcribed from the Chain of Custody to the ALS reporting system by ALS personnel. The client or their contractor assumes any responsibility for these measurements, including, but not limited to Quality Control, Quality systems and certification. Any method references listed on the report but not on the Chain of Custody are assumed and may or may not be accurate.

Semivolatile GC:

No significant anomalies were noted with this analysis.

General Chemistry:

Method 9056A: The analysis of one or more samples was initially attempted within holding time but was not useable due to an analytical system or QC failure. Efforts were made to reanalyze the sample(s) as soon as possible after the analytical system was back in control. However, the reanalysis of the sample(s) was performed past the recommended holding time. The results from the reanalysis are reported. The data is flagged to indicate the holding time violation.

Method SM 3500-Fe B.4.c: One or more samples were received with insufficient hold time remaining to complete the analysis within the recommended limit. The analysis was performed as soon as possible after receipt by the laboratory. The data is flagged to indicate the holding time violation.

Volatiles by GC:

No significant anomalies were noted with this analysis.

Volatiles by GC/MS:

Method 8260C, 01/29/2018: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8260C, 01/26/2018: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Approved by

A handwritten signature in black ink, appearing to read "Samantha", is written over a horizontal line.

Date

02/06/2018



SAMPLE DETECTION SUMMARY

CLIENT ID: BAT87-01 (1) 180123 **Lab ID: R1800602-001**

Analyte	Results	Flag	MDL	PQL	Units	Method
Alkalinity, Total as CaCO3	433		1.0	2.0	mg/L	SM 2320 B-
Bicarbonate Alkalinity as CaCO3	433		1.0	2.0	mg/L	SM 2320 B-
Carbon Dioxide	554			2.0	mg/L	SM 4500-
Carbon, Total Organic (TOC)	111		0.5	10	mg/L	SM 5310 C-
Chloride	406		5	80	mg/L	9056A
Iron, Divalent (Ferrous Iron)	0.40		0.03	0.10	mg/L	SM 3500-Fe
pH, Field	6.70				pH Units	SM 4500-H+
Sulfate	205		0.8	8.0	mg/L	9056A
Vinyl Chloride	320		3.2	10	ug/L	8260C
Methylene Chloride	16		6.0	10	ug/L	8260C
trans-1,2-Dichloroethene	5.2	J	3.3	10	ug/L	8260C
1,1-Dichloroethane	15		2.0	10	ug/L	8260C
cis-1,2-Dichloroethene	1200		3.0	10	ug/L	8260C
1,1,1-Trichloroethane	22		3.6	10	ug/L	8260C
Trichloroethene	23		2.2	10	ug/L	8260C
Ethane	1.1		0.17	1.0	ug/L	RSK 175
Ethene	24		0.14	1.0	ug/L	RSK 175
Methane	27		0.50	1.0	ug/L	RSK 175
Acetic Acid	210		2.0	2.0	mg/L	Organic
Butanoic Acid (Butyric Acid)	4.3		0.63	4.0	mg/L	Organic
Propionic Acid	16		0.38	2.0	mg/L	Organic

CLIENT ID: BAT87-12 (1) 180123 **Lab ID: R1800602-002**

Analyte	Results	Flag	MDL	PQL	Units	Method
Alkalinity, Total as CaCO3	466		1.0	2.0	mg/L	SM 2320 B-
Bicarbonate Alkalinity as CaCO3	466		1.0	2.0	mg/L	SM 2320 B-
Carbon Dioxide	479			2.0	mg/L	SM 4500-
Carbon, Total Organic (TOC)	10.1		0.05	1.0	mg/L	SM 5310 C-
Chloride	329		0.5	8.0	mg/L	9056A
pH, Field	7.13				pH Units	SM 4500-H+
Sulfate	550		8	80	mg/L	9056A
Acetic Acid	13		1.0	1.0	mg/L	Organic

CLIENT ID: BAT87-20 (1) 180123 **Lab ID: R1800602-003**

Analyte	Results	Flag	MDL	PQL	Units	Method
Alkalinity, Total as CaCO3	375		1.0	2.0	mg/L	SM 2320 B-
Bicarbonate Alkalinity as CaCO3	375		1.0	2.0	mg/L	SM 2320 B-
Carbon Dioxide	394			2.0	mg/L	SM 4500-
Carbon, Total Organic (TOC)	70.1		0.2	4.0	mg/L	SM 5310 C-
Chloride	217		3	40	mg/L	9056A
Iron, Divalent (Ferrous Iron)	0.14		0.03	0.10	mg/L	SM 3500-Fe
pH, Field	7.07				pH Units	SM 4500-H+



SAMPLE DETECTION SUMMARY

CLIENT ID: BAT87-20 (1) 180123 **Lab ID: R1800602-003**

Analyte	Results	Flag	MDL	PQL	Units	Method
Sulfate	779		4	40	mg/L	9056A
Vinyl Chloride	1600		16	50	ug/L	8260C
1,1-Dichloroethane	16	J	10	50	ug/L	8260C
cis-1,2-Dichloroethene	4800		15	50	ug/L	8260C
1,1,1-Trichloroethane	21	J	18	50	ug/L	8260C
Trichloroethene	39	J	11	50	ug/L	8260C
Ethane	2.4		0.17	1.0	ug/L	RSK 175
Ethene	81		0.14	1.0	ug/L	RSK 175
Methane	48		0.50	1.0	ug/L	RSK 175
Acetic Acid	140		1.0	1.0	mg/L	Organic

CLIENT ID: BAT87-22 (1) 180123 **Lab ID: R1800602-004**

Analyte	Results	Flag	MDL	PQL	Units	Method
Alkalinity, Total as CaCO3	378		1.0	2.0	mg/L	SM 2320 B-
Bicarbonate Alkalinity as CaCO3	378		1.0	2.0	mg/L	SM 2320 B-
Carbon Dioxide	391			2.0	mg/L	SM 4500-
Carbon, Total Organic (TOC)	4.9		0.05	1.0	mg/L	SM 5310 C-
Chloride	119		0.5	8.0	mg/L	9056A
pH, Field	7.11				pH Units	SM 4500-H+
Sulfate	1230		8	80	mg/L	9056A
Vinyl Chloride	1100	D	8.0	25	ug/L	8260C
trans-1,2-Dichloroethene	12	DJ	8.3	25	ug/L	8260C
1,1-Dichloroethane	9.3	DJ	5.0	25	ug/L	8260C
cis-1,2-Dichloroethene	2700	D	7.5	25	ug/L	8260C
Trichloroethene	70	D	5.5	25	ug/L	8260C
Ethane	5.7		0.17	1.0	ug/L	RSK 175
Ethene	49		0.14	1.0	ug/L	RSK 175
Methane	200	E	0.50	1.0	ug/L	RSK 175

CLIENT ID: BAT89-12 (1) 180123 **Lab ID: R1800602-005**

Analyte	Results	Flag	MDL	PQL	Units	Method
Alkalinity, Total as CaCO3	466		1.0	2.0	mg/L	SM 2320 B-
Bicarbonate Alkalinity as CaCO3	466		1.0	2.0	mg/L	SM 2320 B-
Carbon Dioxide	468			2.0	mg/L	SM 4500-
Carbon, Total Organic (TOC)	35.6		0.09	2.0	mg/L	SM 5310 C-
Chloride	319		3	40	mg/L	9056A
Iron, Divalent (Ferrous Iron)	0.17		0.03	0.10	mg/L	SM 3500-Fe
pH, Field	7.20				pH Units	SM 4500-H+
Sulfate	734		4	40	mg/L	9056A
Vinyl Chloride	800		3.2	10	ug/L	8260C
Carbon Disulfide	47		2.2	10	ug/L	8260C
trans-1,2-Dichloroethene	5.1	J	3.3	10	ug/L	8260C



SAMPLE DETECTION SUMMARY

CLIENT ID: BAT89-12 (1) 180123 **Lab ID: R1800602-005**

Analyte	Results	Flag	MDL	PQL	Units	Method
1,1-Dichloroethane	21		2.0	10	ug/L	8260C
cis-1,2-Dichloroethene	1900		3.0	10	ug/L	8260C
1,1,1-Trichloroethane	17		3.6	10	ug/L	8260C
Trichloroethene	42		2.2	10	ug/L	8260C
Ethane	1.9		0.17	1.0	ug/L	RSK 175
Ethene	150	E	0.14	1.0	ug/L	RSK 175
Methane	30		0.50	1.0	ug/L	RSK 175
Acetic Acid	51		1.0	1.0	mg/L	Organic

CLIENT ID: BAT89-10 (1) 180123 **Lab ID: R1800602-006**

Analyte	Results	Flag	MDL	PQL	Units	Method
Alkalinity, Total as CaCO3	433		1.0	2.0	mg/L	SM 2320 B-
Bicarbonate Alkalinity as CaCO3	433		1.0	2.0	mg/L	SM 2320 B-
Carbon Dioxide	504			2.0	mg/L	SM 4500-
Carbon, Total Organic (TOC)	100		5	100	mg/L	SM 5310 C-
Chloride	425		3	40	mg/L	9056A
Iron, Divalent (Ferrous Iron)	0.11		0.03	0.10	mg/L	SM 3500-Fe
pH, Field	6.85				pH Units	SM 4500-H+
Sulfate	897		4	40	mg/L	9056A
Vinyl Chloride	360		3.2	10	ug/L	8260C
1,1-Dichloroethene	20		5.7	10	ug/L	8260C
Carbon Disulfide	63		2.2	10	ug/L	8260C
Methylene Chloride	3700	D	120	200	ug/L	8260C
trans-1,2-Dichloroethene	12		3.3	10	ug/L	8260C
1,1-Dichloroethane	29		2.0	10	ug/L	8260C
cis-1,2-Dichloroethene	4300	D	60	200	ug/L	8260C
1,1,1-Trichloroethane	85		3.6	10	ug/L	8260C
Trichloroethene	17000	D	44	200	ug/L	8260C
Toluene	8.4	J	2.0	10	ug/L	8260C
Ethane	2.1		0.17	1.0	ug/L	RSK 175
Ethene	25		0.14	1.0	ug/L	RSK 175
Methane	33		0.50	1.0	ug/L	RSK 175
Acetic Acid	190		1.0	1.0	mg/L	Organic
Propionic Acid	5.1		0.19	1.0	mg/L	Organic

CLIENT ID: BAT-DW-11 180123 **Lab ID: R1800602-007**

Analyte	Results	Flag	MDL	PQL	Units	Method
Alkalinity, Total as CaCO3	194		1.0	2.0	mg/L	SM 2320 B-
Bicarbonate Alkalinity as CaCO3	194		1.0	2.0	mg/L	SM 2320 B-
Carbon Dioxide	177			2.0	mg/L	SM 4500-
Carbon, Total Organic (TOC)	9.2		0.05	1.0	mg/L	SM 5310 C-
Chloride	481		0.6	10	mg/L	9056A



SAMPLE DETECTION SUMMARY

CLIENT ID: BAT-DW-11 180123 **Lab ID: R1800602-007**

Analyte	Results	Flag	MDL	PQL	Units	Method
Iron, Divalent (Ferrous Iron)	0.76		0.03	0.10	mg/L	SM 3500-Fe
Nitrate as Nitrogen	2.4		0.04	1.0	mg/L	9056A
pH, Field	7.78				pH Units	SM 4500-H+
Sulfate	409		1.0	10	mg/L	9056A
Vinyl Chloride	13		0.32	1.0	ug/L	8260C
Acetone	48		1.3	5.0	ug/L	8260C
Carbon Disulfide	0.39	J	0.22	1.0	ug/L	8260C
Methylene Chloride	11		0.60	1.0	ug/L	8260C
1,1-Dichloroethane	0.88	J	0.20	1.0	ug/L	8260C
cis-1,2-Dichloroethene	23		0.30	1.0	ug/L	8260C
2-Butanone (MEK)	1.0	J	0.81	5.0	ug/L	8260C
1,1,1-Trichloroethane	3.3		0.36	1.0	ug/L	8260C
Benzene	0.84	J	0.20	1.0	ug/L	8260C
Trichloroethene	520	D	1.1	5.0	ug/L	8260C
Toluene	0.54	J	0.20	1.0	ug/L	8260C
Tetrachloroethene	0.46	J	0.30	1.0	ug/L	8260C
m,p-Xylenes	0.56	J	0.33	2.0	ug/L	8260C
Ethene	1.1		0.14	1.0	ug/L	RSK 175
Methane	4.2		0.50	1.0	ug/L	RSK 175
Acetic Acid	1.4		1.0	1.0	mg/L	Organic

CLIENT ID: BAT87-B-14 (1) 180123 **Lab ID: R1800602-008**

Analyte	Results	Flag	MDL	PQL	Units	Method
Alkalinity, Total as CaCO3	290		1.0	2.0	mg/L	SM 2320 B-
Bicarbonate Alkalinity as CaCO3	290		1.0	2.0	mg/L	SM 2320 B-
Carbon Dioxide	286			2.0	mg/L	SM 4500-
Carbon, Total Organic (TOC)	3.8		0.05	1.0	mg/L	SM 5310 C-
Chloride	117		0.5	8.0	mg/L	9056A
pH, Field	7.27				pH Units	SM 4500-H+
Sulfate	972		8	80	mg/L	9056A
Vinyl Chloride	180		0.64	2.0	ug/L	8260C
Carbon Disulfide	3.1		0.44	2.0	ug/L	8260C
trans-1,2-Dichloroethene	1.6	J	0.66	2.0	ug/L	8260C
1,1-Dichloroethane	15		0.40	2.0	ug/L	8260C
cis-1,2-Dichloroethene	100		0.60	2.0	ug/L	8260C
1,1,1-Trichloroethane	52		0.72	2.0	ug/L	8260C
Trichloroethene	1.6	J	0.44	2.0	ug/L	8260C
Ethane	1.1		0.17	1.0	ug/L	RSK 175
Ethene	12		0.14	1.0	ug/L	RSK 175
Methane	53		0.50	1.0	ug/L	RSK 175



SAMPLE DETECTION SUMMARY

CLIENT ID: BAT87-09 (1) 180123 **Lab ID: R1800602-009**

Analyte	Results	Flag	MDL	PQL	Units	Method
Alkalinity, Total as CaCO3	287		1.0	2.0	mg/L	SM 2320 B-
Bicarbonate Alkalinity as CaCO3	287		1.0	2.0	mg/L	SM 2320 B-
Carbon Dioxide	281			2.0	mg/L	SM 4500-
Carbon, Total Organic (TOC)	3.4		0.05	1.0	mg/L	SM 5310 C-
Chloride	116		0.5	8.0	mg/L	9056A
pH, Field	7.30				pH Units	SM 4500-H+
Sulfate	991		8	80	mg/L	9056A
Vinyl Chloride	200		0.64	2.0	ug/L	8260C
1,1-Dichloroethene	1.4	J	1.2	2.0	ug/L	8260C
Acetone	2.5	J	2.5	10	ug/L	8260C
Carbon Disulfide	2.2		0.44	2.0	ug/L	8260C
trans-1,2-Dichloroethene	1.6	J	0.66	2.0	ug/L	8260C
1,1-Dichloroethane	17		0.40	2.0	ug/L	8260C
cis-1,2-Dichloroethene	130		0.60	2.0	ug/L	8260C
1,1,1-Trichloroethane	79		0.72	2.0	ug/L	8260C
Trichloroethene	2.1		0.44	2.0	ug/L	8260C
Ethane	1.6		0.17	1.0	ug/L	RSK 175
Ethene	11		0.14	1.0	ug/L	RSK 175
Methane	64		0.50	1.0	ug/L	RSK 175

CLIENT ID: BAT87-02 (1) 180124 **Lab ID: R1800602-010**

Analyte	Results	Flag	MDL	PQL	Units	Method
Alkalinity, Total as CaCO3	562		1.0	2.0	mg/L	SM 2320 B-
Bicarbonate Alkalinity as CaCO3	562		1.0	2.0	mg/L	SM 2320 B-
Carbon Dioxide	764			2.0	mg/L	SM 4500-
Carbon, Total Organic (TOC)	241		0.5	10	mg/L	SM 5310 C-
Chloride	477		2	20	mg/L	9056A
Iron, Divalent (Ferrous Iron)	54.6		0.9	4.0	mg/L	SM 3500-Fe
pH, Field	6.62				pH Units	SM 4500-H+
Sulfate	63.1		0.2	2.0	mg/L	9056A
Vinyl Chloride	210		8.0	25	ug/L	8260C
Methylene Chloride	800		15	25	ug/L	8260C
trans-1,2-Dichloroethene	10	J	8.3	25	ug/L	8260C
1,1-Dichloroethane	19	J	5.0	25	ug/L	8260C
cis-1,2-Dichloroethene	3400		7.5	25	ug/L	8260C
1,1,1-Trichloroethane	31		9.0	25	ug/L	8260C
Trichloroethene	350		5.5	25	ug/L	8260C
Ethane	1.8		0.17	1.0	ug/L	RSK 175
Ethene	20		0.14	1.0	ug/L	RSK 175
Methane	63		0.50	1.0	ug/L	RSK 175
Acetic Acid	350		2.5	2.5	mg/L	Organic
Butanoic Acid (Butyric Acid)	43		0.78	5.0	mg/L	Organic



SAMPLE DETECTION SUMMARY

CLIENT ID: BAT87-02 (1) 180124 **Lab ID: R1800602-010**

Analyte	Results	Flag	MDL	PQL	Units	Method
Propionic Acid	71		0.47	2.5	mg/L	Organic

CLIENT ID: BAT-DW-12 180124 **Lab ID: R1800602-011**

Analyte	Results	Flag	MDL	PQL	Units	Method
Alkalinity, Total as CaCO3	66.4		1.0	2.0	mg/L	SM 2320 B-
Bicarbonate Alkalinity as CaCO3	66.4		1.0	2.0	mg/L	SM 2320 B-
Carbon Dioxide	62.6			2.0	mg/L	SM 4500-
Carbon, Total Organic (TOC)	2.2		0.05	1.0	mg/L	SM 5310 C-
Chloride	1050		3	40	mg/L	9056A
Nitrate as Nitrogen	1.5		0.04	1.0	mg/L	9056A
pH, Field	7.50				pH Units	SM 4500-H+
Sulfate	138		0.8	8.0	mg/L	9056A
cis-1,2-Dichloroethene	2.2		0.30	1.0	ug/L	8260C
Chloroform	0.35	J	0.25	1.0	ug/L	8260C
Trichloroethene	0.87	J	0.22	1.0	ug/L	8260C

CLIENT ID: BAT89-15 (1) 180124 **Lab ID: R1800602-012**

Analyte	Results	Flag	MDL	PQL	Units	Method
Alkalinity, Total as CaCO3	530		1.0	2.0	mg/L	SM 2320 B-
Bicarbonate Alkalinity as CaCO3	530		1.0	2.0	mg/L	SM 2320 B-
Carbon Dioxide	660			2.0	mg/L	SM 4500-
Carbon, Total Organic (TOC)	141		2	40	mg/L	SM 5310 C-
Chloride	76.0		0.2	2.0	mg/L	9056A
Iron, Divalent (Ferrous Iron)	4.3		0.3	1.0	mg/L	SM 3500-Fe
pH, Field	6.74				pH Units	SM 4500-H+
Sulfate	40.8		0.2	2.0	mg/L	9056A
Vinyl Chloride	270	D	1.6	5.0	ug/L	8260C
1,1-Dichloroethene	2.3		0.57	1.0	ug/L	8260C
Carbon Disulfide	5.5		0.22	1.0	ug/L	8260C
Methylene Chloride	360	D	3.0	5.0	ug/L	8260C
trans-1,2-Dichloroethene	3.0		0.33	1.0	ug/L	8260C
1,1-Dichloroethane	3.7		0.20	1.0	ug/L	8260C
cis-1,2-Dichloroethene	460	D	1.5	5.0	ug/L	8260C
2-Butanone (MEK)	5.3		0.81	5.0	ug/L	8260C
Chloroform	1.2		0.25	1.0	ug/L	8260C
1,1,1-Trichloroethane	2.2		0.36	1.0	ug/L	8260C
Benzene	0.21	J	0.20	1.0	ug/L	8260C
Trichloroethene	280	D	1.1	5.0	ug/L	8260C
Toluene	0.49	J	0.20	1.0	ug/L	8260C
Ethane	3.6		0.17	1.0	ug/L	RSK 175
Ethene	69		0.14	1.0	ug/L	RSK 175
Methane	30		0.50	1.0	ug/L	RSK 175



SAMPLE DETECTION SUMMARY

CLIENT ID: BAT89-15 (1) 180124 Lab ID: R1800602-012

Analyte	Results	Flag	MDL	PQL	Units	Method
Acetic Acid	280		2.0	2.0	mg/L	Organic
Propionic Acid	7.7		0.38	2.0	mg/L	Organic

CLIENT ID: BAT-DW-10 180124 Lab ID: R1800602-013

Analyte	Results	Flag	MDL	PQL	Units	Method
Alkalinity, Total as CaCO3	184		1.0	2.0	mg/L	SM 2320 B-
Bicarbonate Alkalinity as CaCO3	184		1.0	2.0	mg/L	SM 2320 B-
Carbon Dioxide	179			2.0	mg/L	SM 4500-
Carbon, Total Organic (TOC)	690		5	100	mg/L	SM 5310 C-
Chloride	35.3		0.2	2.0	mg/L	9056A
pH, Field	7.32				pH Units	SM 4500-H+
Sulfate	104		0.8	8.0	mg/L	9056A
Vinyl Chloride	260	D	80	250	ug/L	8260C
1,1-Dichloroethene	17		0.57	1.0	ug/L	8260C
Acetone	4.9	J	1.3	5.0	ug/L	8260C
Carbon Disulfide	14		0.22	1.0	ug/L	8260C
Methylene Chloride	16000	D	150	250	ug/L	8260C
trans-1,2-Dichloroethene	12		0.33	1.0	ug/L	8260C
1,1-Dichloroethane	15		0.20	1.0	ug/L	8260C
cis-1,2-Dichloroethene	1100	D	75	250	ug/L	8260C
Chloroform	5.4		0.25	1.0	ug/L	8260C
1,1,1-Trichloroethane	18		0.36	1.0	ug/L	8260C
Benzene	0.89	J	0.20	1.0	ug/L	8260C
Trichloroethene	36000	D	55	250	ug/L	8260C
Toluene	8.0		0.20	1.0	ug/L	8260C
1,1,2-Trichloroethane	0.75	J	0.34	1.0	ug/L	8260C
Tetrachloroethene	8.0		0.30	1.0	ug/L	8260C
Ethylbenzene	1.4		0.20	1.0	ug/L	8260C
m,p-Xylenes	4.6		0.33	2.0	ug/L	8260C
o-Xylene	1.7		0.20	1.0	ug/L	8260C
Ethane	7.2		0.17	1.0	ug/L	RSK 175
Ethene	24		0.14	1.0	ug/L	RSK 175
Methane	76		0.50	1.0	ug/L	RSK 175

CLIENT ID: BAT87-08 (1) 180124 Lab ID: R1800602-014

Analyte	Results	Flag	MDL	PQL	Units	Method
Alkalinity, Total as CaCO3	431		1.0	2.0	mg/L	SM 2320 B-
Bicarbonate Alkalinity as CaCO3	431		1.0	2.0	mg/L	SM 2320 B-
Carbon Dioxide	433			2.0	mg/L	SM 4500-
Carbon, Total Organic (TOC)	50.5		0.2	4.0	mg/L	SM 5310 C-
Chloride	13.5		0.2	2.0	mg/L	9056A
pH, Field	7.20				pH Units	SM 4500-H+



SAMPLE DETECTION SUMMARY

CLIENT ID: BAT87-08 (1) 180124 **Lab ID: R1800602-014**

Analyte	Results	Flag	MDL	PQL	Units	Method
Sulfate	122		0.8	8.0	mg/L	9056A
Vinyl Chloride	500		1.6	5.0	ug/L	8260C
1,1-Dichloroethene	4.2	J	2.9	5.0	ug/L	8260C
Acetone	9.3	J	6.2	25	ug/L	8260C
Carbon Disulfide	12		1.1	5.0	ug/L	8260C
Methylene Chloride	14		3.0	5.0	ug/L	8260C
trans-1,2-Dichloroethene	3.9	J	1.7	5.0	ug/L	8260C
1,1-Dichloroethane	6.4		1.0	5.0	ug/L	8260C
cis-1,2-Dichloroethene	780		1.5	5.0	ug/L	8260C
1,1,1-Trichloroethane	3.5	J	1.8	5.0	ug/L	8260C
Trichloroethene	39		1.1	5.0	ug/L	8260C
Ethene	69		0.14	1.0	ug/L	RSK 175
Methane	15		0.50	1.0	ug/L	RSK 175
Acetic Acid	96		1.0	1.0	mg/L	Organic
Propionic Acid	7.0		0.19	1.0	mg/L	Organic

CLIENT ID: BAT-DW-9 180124 **Lab ID: R1800602-015**

Analyte	Results	Flag	MDL	PQL	Units	Method
Alkalinity, Total as CaCO3	160		1.0	2.0	mg/L	SM 2320 B-
Bicarbonate Alkalinity as CaCO3	160		1.0	2.0	mg/L	SM 2320 B-
Carbon Dioxide	149			2.0	mg/L	SM 4500-
Carbon, Total Organic (TOC)	6.0		0.05	1.0	mg/L	SM 5310 C-
Chloride	5.3		0.2	2.0	mg/L	9056A
Nitrate as Nitrogen	5.3		0.04	1.0	mg/L	9056A
pH, Field	7.58				pH Units	SM 4500-H+
Sulfate	96.2		0.2	2.0	mg/L	9056A
Acetone	1.8	J	1.3	5.0	ug/L	8260C
cis-1,2-Dichloroethene	4.9		0.30	1.0	ug/L	8260C
Trichloroethene	20		0.22	1.0	ug/L	8260C

CLIENT ID: BAT B-10A (1) 180124 **Lab ID: R1800602-016**

Analyte	Results	Flag	MDL	PQL	Units	Method
Alkalinity, Total as CaCO3	549		1.0	2.0	mg/L	SM 2320 B-
Bicarbonate Alkalinity as CaCO3	549		1.0	2.0	mg/L	SM 2320 B-
Carbon Dioxide	508			2.0	mg/L	SM 4500-
Carbon, Total Organic (TOC)	56.9		0.2	4.0	mg/L	SM 5310 C-
Chloride	109		0.5	8.0	mg/L	9056A
pH, Field	7.64				pH Units	SM 4500-H+
Sulfate	123		0.8	8.0	mg/L	9056A
Vinyl Chloride	510		160	500	ug/L	8260C
1,1-Dichloroethene	380	J	290	500	ug/L	8260C
Methylene Chloride	3700		300	500	ug/L	8260C



SAMPLE DETECTION SUMMARY

CLIENT ID: BAT B-10A (1) 180124 **Lab ID: R1800602-016**

Analyte	Results	Flag	MDL	PQL	Units	Method
trans-1,2-Dichloroethene	250	J	170	500	ug/L	8260C
1,1-Dichloroethane	430	J	100	500	ug/L	8260C
cis-1,2-Dichloroethene	70000		150	500	ug/L	8260C
1,1,1-Trichloroethane	1100		180	500	ug/L	8260C
Trichloroethene	28000		110	500	ug/L	8260C
Ethane	2.2		0.17	1.0	ug/L	RSK 175
Ethene	19		0.14	1.0	ug/L	RSK 175
Methane	67		0.50	1.1	ug/L	RSK 175
Acetic Acid	82		1.0	1.0	mg/L	Organic
Propionic Acid	15		0.19	1.0	mg/L	Organic

CLIENT ID: BAT87-13 (1) 180124 **Lab ID: R1800602-017**

Analyte	Results	Flag	MDL	PQL	Units	Method
Alkalinity, Total as CaCO3	922		1.0	2.0	mg/L	SM 2320 B-
Bicarbonate Alkalinity as CaCO3	922		1.0	2.0	mg/L	SM 2320 B-
Carbon Dioxide	1220			2.0	mg/L	SM 4500-
Carbon, Total Organic (TOC)	10.7		0.05	1.0	mg/L	SM 5310 C-
Chloride	287		0.5	8.0	mg/L	9056A
Iron, Divalent (Ferrous Iron)	3.1		0.3	1.0	mg/L	SM 3500-Fe
pH, Field	6.65				pH Units	SM 4500-H+
Sulfate	451		2	20	mg/L	9056A
Vinyl Chloride	1600		64	200	ug/L	8260C
1,1-Dichloroethene	210		120	200	ug/L	8260C
Methylene Chloride	17000		120	200	ug/L	8260C
1,1-Dichloroethane	280		40	200	ug/L	8260C
cis-1,2-Dichloroethene	36000		60	200	ug/L	8260C
1,1,1-Trichloroethane	3300		72	200	ug/L	8260C
Trichloroethene	120000	D	440	2000	ug/L	8260C
Toluene	160	J	40	200	ug/L	8260C
Tetrachloroethene	310		60	200	ug/L	8260C
m,p-Xylenes	70	J	66	400	ug/L	8260C
Ethane	6.3		0.17	1.0	ug/L	RSK 175
Ethene	110		0.35	2.5	ug/L	RSK 175
Methane	130		1.3	2.6	ug/L	RSK 175
Acetic Acid	550		5.0	5.0	mg/L	Organic
Butanoic Acid (Butyric Acid)	12		1.6	10	mg/L	Organic
Lactic Acid	20		0.67	5.0	mg/L	Organic
Propionic Acid	78		0.94	5.0	mg/L	Organic

CLIENT ID: BAT87-17 (1) 180124 **Lab ID: R1800602-018**

Analyte	Results	Flag	MDL	PQL	Units	Method
Alkalinity, Total as CaCO3	291		1.0	2.0	mg/L	SM 2320 B-



SAMPLE DETECTION SUMMARY

CLIENT ID: BAT87-17 (1) 180124		Lab ID: R1800602-018				
Analyte	Results	Flag	MDL	PQL	Units	Method
Bicarbonate Alkalinity as CaCO3	291		1.0	2.0	mg/L	SM 2320 B-
Carbon Dioxide	300			2.0	mg/L	SM 4500-
Carbon, Total Organic (TOC)	4.7		0.05	1.0	mg/L	SM 5310 C-
Chloride	124		0.5	8.0	mg/L	9056A
Iron, Divalent (Ferrous Iron)	0.13		0.03	0.10	mg/L	SM 3500-Fe
pH, Field	7.12				pH Units	SM 4500-H+
Sulfate	1030		8	80	mg/L	9056A
Vinyl Chloride	320		0.64	2.0	ug/L	8260C
1,1-Dichloroethene	1.4	J	1.2	2.0	ug/L	8260C
Carbon Disulfide	1.4	J	0.44	2.0	ug/L	8260C
trans-1,2-Dichloroethene	2.3		0.66	2.0	ug/L	8260C
1,1-Dichloroethane	23		0.40	2.0	ug/L	8260C
cis-1,2-Dichloroethene	110		0.60	2.0	ug/L	8260C
1,1,1-Trichloroethane	100		0.72	2.0	ug/L	8260C
Trichloroethene	2.7		0.44	2.0	ug/L	8260C
Ethane	1.2		0.17	1.0	ug/L	RSK 175
Ethene	11		0.14	1.0	ug/L	RSK 175
Methane	66		0.50	1.1	ug/L	RSK 175

CLIENT ID: BAT87-12 (1) 180124		Lab ID: R1800602-019				
Analyte	Results	Flag	MDL	PQL	Units	Method
Vinyl Chloride	1400		3.2	10	ug/L	8260C
Carbon Disulfide	31		2.2	10	ug/L	8260C
Methylene Chloride	84		6.0	10	ug/L	8260C
trans-1,2-Dichloroethene	7.3	J	3.3	10	ug/L	8260C
1,1-Dichloroethane	24		2.0	10	ug/L	8260C
cis-1,2-Dichloroethene	970		3.0	10	ug/L	8260C
1,1,1-Trichloroethane	29		3.6	10	ug/L	8260C
Trichloroethene	17		2.2	10	ug/L	8260C
Ethane	3.6		0.17	1.0	ug/L	RSK 175
Ethene	310		1.4	10	ug/L	RSK 175
Methane	47		0.50	1.1	ug/L	RSK 175



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
Project: Textron Injection/631232612

Service Request:R1800602

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R1800602-001	BAT87-01 (1) 180123	1/23/2018	0945
R1800602-002	BAT87-12 (1) 180123	1/23/2018	1015
R1800602-003	BAT87-20 (1) 180123	1/23/2018	1110
R1800602-004	BAT87-22 (1) 180123	1/23/2018	1150
R1800602-005	BAT89-12 (1) 180123	1/23/2018	1300
R1800602-006	BAT89-10 (1) 180123	1/23/2018	1350
R1800602-007	BAT-DW-11 180123	1/23/2018	1420
R1800602-008	BAT87-B-14 (1) 180123	1/23/2018	1500
R1800602-009	BAT87-09 (1) 180123	1/23/2018	1525
R1800602-010	BAT87-02 (1) 180124	1/24/2018	0920
R1800602-011	BAT-DW-12 180124	1/24/2018	0950
R1800602-012	BAT89-15 (1) 180124	1/24/2018	1035
R1800602-013	BAT-DW-10 180124	1/24/2018	1110
R1800602-014	BAT87-08 (1) 180124	1/24/2018	1140
R1800602-015	BAT-DW-9 180124	1/24/2018	1200
R1800602-016	BAT B-10A (1) 180124	1/24/2018	1315
R1800602-017	BAT87-13 (1) 180124	1/24/2018	1350
R1800602-018	BAT87-17 (1) 180124	1/24/2018	1425
R1800602-019	BAT87-12 (1) 180124	1/23/2018	1015



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

49004

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Project Name TEXTRON INJECTION		Project Number 631232612		ANALYSIS REQUESTED (Include Method Number and Container Preservative)																				
Project Manager CECELIA CAMPBELL		Report CC		PRESERVATIVE																				
Company/Address APTIM		Email CECELIA.BYERS@APTIM.COM		NUMBER OF CONTAINERS	GC/MS VOAs • 8260 • 824 • CLP • 8270 • 825	GC/MS SVOAs • 8021 • 801/802	PESTICIDES • 8081 • 808	PCRs • 8082 • 808	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	TOC 531W	BOIS VOLATILE ETHANE-ETHANE-METH	CO2	9056A	BSK	Preservative Key								
13 BRITISH AMERICAN BLVD		APTIM.COM														0. NONE								
LATHAM, NY 12110		Kevin Cronin														1. HCL								
Phone # 518 783-1996		Sampler's Signature <i>Kevin Cronin</i>														2. HNO3								
Sampler's Signature <i>Kevin Cronin</i>		Sampler's Printed Name Kevin Cronin		3. H2SO4		REMARKS/ ALTERNATE DESCRIPTION																		
CLIENT SAMPLE ID		FOR OFFICE USE ONLY LAB ID		DATE		TIME		MATRIX																
BAT-87-02(1)180124				1/24/18		0920		GW 12		X		X		X		X								
BAT-DW-12-180124						0950																		
BAT-89-15(1)180124						1035																		
BAT-DW-10-180124						1110																		
BAT-87-08(1)180124						1140																		
BAT-DW-9-180124						1200																		
BAT-B-10A(1)180124						1315																		
BAT-87-13(1)180124						1350																		
BAT-87-07(1)180124						1425				V		V		V		V								
BAT-87-12(1)180124				1/24/18 1/23/18		1440 1015		GW 6		X						RETIREMENT VIAL								
SPECIAL INSTRUCTIONS/COMMENTS Metals <i>as per Bob Weber 1/25/18</i>					TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) STANDARD 1 day 2 day 3 day 4 day 5 day REQUESTED REPORT DATE					REPORT REQUIREMENTS <input checked="" type="checkbox"/> I. Results Only <input type="checkbox"/> II. Results + QC Summaries (LCS, DUP, MS/MSD as required) <input type="checkbox"/> III. Results + QC and Calibration Summaries <input type="checkbox"/> IV. Data Validation Report with Raw Data Edata Yes No					INVOICE INFORMATION PO # BILL TO:									
STATE WHERE SAMPLES WERE COLLECTED					RELINQUISHED BY					RECEIVED BY					RELINQUISHED BY					RECEIVED BY				
Signature <i>Kevin Cronin</i>					Signature <i>Kevin Cronin</i>					Signature <i>Bob Weber</i>					Signature <i>Kevin Cronin</i>					Signature <i>Kevin Cronin</i>				
Printed Name KEVIN CROWIN					Printed Name Kevin Cronin					Printed Name Bob Weber					Printed Name Kevin Cronin					Printed Name Kevin Cronin				
Firm APTIM					Firm APTIM					Firm APTIM					Firm APTIM					Firm APTIM				
Date/Time 1/24/18 1430					Date/Time 1/24/18 1430					Date/Time 1/24/18 1430					Date/Time 1/24/18 1630					Date/Time 1/24/18 1630				

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APTIM, Inc
Textron Injection

WELL	Final pH
MW 87-01(1)	6.70
MW 87-02(1)	6.62
MW 87-08(1)	7.20
MW 87-09(1)	7.30
MW 87-12(1)	7.13
MW 87-13(1)	6.65
MW 87-17(1)	7.12
MW 87-20(1)	7.07
MW 87-22(1)	7.11
MW 89-10(1)	6.85
MW 89-12(1)	7.20
MW 89-15(1)	6.74
B-10A(1)	7.64
B-14(1)	7.27
DW-9	7.58
DW-10	7.32
DW-11	7.78
DW-12	7.50

Aptim
Textron



Cooler Receipt and Preservation Check Form

R1800602

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APTIM, Inc
Texttron Injection



Project/Client APTIM Folder Number _____

Cooler received on 1/24/18 by: @

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	Y	<input checked="" type="radio"/> N
2	Custody papers properly completed (ink, signed)?	<input checked="" type="radio"/> Y	N
3	Did all bottles arrive in good condition (unbroken)?	<input checked="" type="radio"/> Y	N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<input checked="" type="radio"/> Y	N

5a	Perchlorate samples have required headspace?	Y	N	<input checked="" type="radio"/> NA
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y	<input checked="" type="radio"/> N	NA
6	Where did the bottles originate?	<u>ALS/ROC</u>	CLIENT	
7	Soil VOA received as:	Bulk	Encore	5035set <input checked="" type="radio"/> NA

8. Temperature Readings Date: 1/24/18 Time: 1630 ID: IR#7 IR#9 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>3.0</u>	<u>1.8</u>						
Correction Factor (°C)	<u>+1.0</u>	<u>+1.0</u>						
Corrected Temp (°C)	<u>4.0</u>	<u>2.8</u>						
Temp from: Type of bottle	<u>Cent. Ice</u> →							
Within 0-6°C?	<input checked="" type="radio"/> Y	N	<input checked="" type="radio"/> Y	N	Y	N	Y	N
If <0°C, were samples frozen?	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 @ on 1/24/18 at 1638
5035 samples placed in storage location: _____ by _____ on _____ at _____

Cooler Breakdown: Date: 1/25/18 Time: 1130 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 Canisters Pressurized Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
≤2		HNO ₃								
≤2	<u>201817</u>	H ₂ SO ₄	<input checked="" type="checkbox"/>		<u>2FG0235</u>	<u>10/10</u>				
<4		NaHSO ₄								
Residual Chlorine (-)		For CN Phenol and 522			If +, contact PM to add Na ₂ S ₂ O ₃ (CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃	-	-						
		ZnAcetate	-	-						
		HCl	**	**	<u>4/15/20</u>	<u>12/18</u>				

**Not to be tested before analysis – pH tested and recorded by VOAs on a separate worksheet

Bottle lot numbers: 7-080-001, 7-249-002, 111317-21900, 111217-15110
Explain all Discrepancies/ Other Comments:

H₃PO₄ lot: 185422 Exp: 1/19

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

Labels secondary reviewed by: @
PC Secondary Review: SMJ 1/26/18

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



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

49003

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Project Name TEXTRON INJECTION		Project Number 631232612		ANALYSIS REQUESTED (Include Method Number and Container Preservative)											
Project Manager CECELIA CAMPBELL		Report CC		PRESERVATIVE											
Company/Address APTIM 13 BRITISH-AMERICAN BVD. LATHAM, NY 12110		Email CECELIA.BYERS		NUMBER OF CONTAINERS GC/MS - VOAs GC/MS - SVOAs GC - VOAs PESTICIDES PCBs METALS, TOTAL METALS, DISSOLVED TOC VOL FATTY ACIDS SWI ETHANOL-ETHANE-METH CO2 9056A											
Phone # 510-783-1996		Sampler's Printed Name K. CROWIN / B. URBAN													
Sampler's Signature		Sampler's Printed Name		Preservative Key 0. NONE 1. HCL 2. HNO3 3. H2SO4 4. NaOH 5. Zn. Acetate 6. MeOH 7. NaHSO4 8. Other _____ REMARKS/ ALTERNATE DESCRIPTION											

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING		MATRIX	12	X	X	X	X	X
		DATE	TIME							
BAT 87-01(1)180123		1/23/18	0945	GW						
BAT 87-12(1)180123			1015							
BAT DW-12(1)180123			1035							
BAT 87-20(1)180123			1110							
BAT 87-22(1)180123			1150							
BAT 89-12(1)180123			1300							
BAT 89-10(1)180123			1350							
BAT-DW-11(1)180123			1420							
BAT-B-14(1)180123			1500							
BAT-87-09(1)180123			1525							

SPECIAL INSTRUCTIONS/COMMENTS Metals	TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) 1 day 2 day 3 day 4 day 5 day STANDARD REQUESTED REPORT DATE	REPORT REQUIREMENTS <input checked="" type="checkbox"/> I. Results Only <input type="checkbox"/> II. Results + QC Summaries (LCS, DUP, MS/MSD as required) <input type="checkbox"/> III. Results + QC and Calibration Summaries <input type="checkbox"/> IV. Data Validation Report with Raw Data Edata Yes No	INVOICE INFORMATION PO # BILL TO:
	See QAPP <input type="checkbox"/>		

STATE WHERE SAMPLES WERE COLLECTED			
RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature: <i>Kevin Crowin</i>	Signature: <i>Bob Urban</i>	Signature: <i>Kevin Crowin</i>	Signature: <i>Bob Urban</i>
Printed Name: KEVIN CROWIN	Printed Name: BOB URBAN	Printed Name: KEVIN CROWIN	Printed Name: BOB URBAN
Firm: APTIM	Firm: ALS	Firm: ALS	Firm: ALS
Date/Time: 1/23/18 1530	Date/Time: 1/23/18 1530	Date/Time: 1/23/18 0720	Date/Time: 1/23/18 1720

R1800602 5
 APTIM, Inc
 Textron Injection



Cooler Receipt and Preservation Check Form

R1800602

5

APTIM, Inc
Textron Injection



Project/Client _____ Folder Number _____

Cooler received on 1/23/18 by: slw

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	Y <input checked="" type="checkbox"/> N
2	Custody papers properly completed (ink, signed)?	<input checked="" type="checkbox"/> Y N
3	Did all bottles arrive in good condition (unbroken)?	<input checked="" type="checkbox"/> Y N
4	Circle: Wet Ice Dry Ice Gel packs present?	<input checked="" type="checkbox"/> Y N

5a	Perchlorate samples have required headspace?	Y N <input checked="" type="checkbox"/>
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y <input checked="" type="checkbox"/> NA
6	Where did the bottles originate?	<u>ALS/ROC</u> CLIENT
7	Soil VOA received as:	Bulk Encore 5035set <u>NA</u>

8. Temperature Readings Date: 1/23/18 Time: 1724 ID: IR#7 IR#9 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>4.5</u>						
Correction Factor (°C)	<u>0.0</u>						
Corrected Temp (°C)	<u>4.5</u>						
Temp from: Type of bottle							
Within 0-6°C?	<input checked="" type="checkbox"/> 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: Room by slw on 1/23/18 at 1724
5035 samples placed in storage location: _____ by _____ on _____ at _____

Cooler Breakdown: Date: 1/24/18 Time: 1355 by: e

- 9. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO data/trace
- 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
- 13. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
≤2		HNO ₃								
≤2	<u>201817</u>	H ₂ SO ₄	<input checked="" type="checkbox"/>		<u>2FG0235</u>	<u>10/18</u>				
<4		NaHSO ₄								
Residual Chlorine (-)		For CN Phenol and 522			If +, contact PM to add Na ₂ S ₂ O ₃ (CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃	-	-						
		ZnAcetate	-	-						
		HCl	**	**	<u>4/15/20</u>	<u>12/18</u>				

**Not to be tested before analysis – pH tested and recorded by VOAs on a separate worksheet

Bottle lot numbers: 7-080-001, 111317-2AAD, 100217-1BMC, 7-249-002

Explain all Discrepancies/ Other Comments:

Mixing VOC & RSLC for

BAF87 (12) (1)

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

Labels secondary reviewed by: [Signature]
PC Secondary Review: [Signature]

*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

- | | |
|---|--|
| <p>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.</p> <p>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/Aroclors).</p> <p>B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.</p> <p>E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.</p> <p>E Organics- Concentration has exceeded the calibration range for that specific analysis.</p> <p>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.</p> <p>* Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.</p> <p>H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.</p> <p># Spike was diluted out.</p> | <p>+ Correlation coefficient for MSA is <0.995.</p> <p>N Inorganics- Matrix spike recovery was outside laboratory limits.</p> <p>N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.</p> <p>S Concentration has been determined using Method of Standard Additions (MSA).</p> <p>W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.</p> <p>P Concentration >40% difference between the two GC columns.</p> <p>C Confirmed by GC/MS</p> <p>Q DoD reports: indicates a pesticide/Aroclor is not confirmed ($\times 100\%$ Difference between two GC columns).</p> <p>X See Case Narrative for discussion.</p> <p>MRL Method Reporting Limit. Also known as:</p> <p>LOQ Limit of Quantitation (LOQ)
The lowest concentration at which the method analyte may be reliably quantified under the method conditions.</p> <p>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).</p> <p>LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.</p> <p>ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.</p> |
|---|--|



Rochester Lab ID # for State Certifications¹

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID #
Delaware Approved	New Jersey ID # NY004	294100 A/B
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 laboratory's 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
Project: Textron Injection/631232612

Service Request: R1800602

Non-Certified Analytes

Certifying Agency: New York Department of Health

Method	Matrix	Analyte
Organic Acids	Water	Acetic Acid
Organic Acids	Water	Butanoic Acid (Butyric Acid)
Organic Acids	Water	Lactic Acid
Organic Acids	Water	Propionic Acid
Organic Acids	Water	Pyruvic Acid
SM 3500-Fe B.4.c	Water	Iron, Divalent (Ferrous Iron)
SM 4500-CO2 D	Water	Carbon Dioxide
SM 4500-H+ B	Water	pH, Field

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Analyst Summary report

Client: APTIM, Inc
Project: Textron Injection/631232612

Service Request: R1800602

Sample Name: BAT87-01 (1) 180123
Lab Code: R1800602-001
Sample Matrix: Water

Date Collected: 01/23/18
Date Received: 01/23/18

Analysis Method

Extracted/Digested By

Analyzed By

8260C		FNAEGLER
9056A		AMOSE
Organic Acids		BALLGEIER
RSK 175		AMOSE
SM 2320 B-1997(2011)		CWOODS
SM 3500-Fe B.4.c		MROGERSON
SM 4500-CO2 D		CWOODS
SM 4500-H+ B		JJANSON
SM 5310 C-2000(2011)		CWOODS

Sample Name: BAT87-12 (1) 180123
Lab Code: R1800602-002
Sample Matrix: Water

Date Collected: 01/23/18
Date Received: 01/23/18

Analysis Method

Extracted/Digested By

Analyzed By

9056A		AMOSE
Organic Acids		BALLGEIER
SM 2320 B-1997(2011)		CWOODS
SM 3500-Fe B.4.c		MROGERSON
SM 4500-CO2 D		CWOODS
SM 4500-H+ B		JJANSON
SM 5310 C-2000(2011)		TSANTIAGO

Sample Name: BAT87-20 (1) 180123
Lab Code: R1800602-003
Sample Matrix: Water

Date Collected: 01/23/18
Date Received: 01/23/18

Analysis Method

Extracted/Digested By

Analyzed By

8260C		FNAEGLER
9056A		AMOSE
Organic Acids		BALLGEIER
RSK 175		AMOSE

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Analyst Summary report

Client: APTIM, Inc
Project: Textron Injection/631232612

Service Request: R1800602

Sample Name: BAT87-20 (1) 180123
Lab Code: R1800602-003
Sample Matrix: Water

Date Collected: 01/23/18
Date Received: 01/23/18

Analysis Method	Extracted/Digested By	Analyzed By
SM 2320 B-1997(2011)		CWOODS
SM 3500-Fe B.4.c		MROGERSON
SM 4500-CO2 D		CWOODS
SM 4500-H+ B		JJANSON
SM 5310 C-2000(2011)		CWOODS

Sample Name: BAT87-22 (1) 180123
Lab Code: R1800602-004
Sample Matrix: Water

Date Collected: 01/23/18
Date Received: 01/23/18

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER
9056A		AMOSSES
Organic Acids		BALLGEIER
RSK 175		AMOSSES
SM 2320 B-1997(2011)		CWOODS
SM 3500-Fe B.4.c		MROGERSON
SM 4500-CO2 D		CWOODS
SM 4500-H+ B		JJANSON
SM 5310 C-2000(2011)		TSANTIAGO

Sample Name: BAT89-12 (1) 180123
Lab Code: R1800602-005
Sample Matrix: Water

Date Collected: 01/23/18
Date Received: 01/23/18

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER
9056A		AMOSSES
Organic Acids		BALLGEIER
RSK 175		AMOSSES
SM 2320 B-1997(2011)		CWOODS
SM 3500-Fe B.4.c		MROGERSON

ALS Group USA, Corp.
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Analyst Summary report

Client: APTIM, Inc
Project: Textron Injection/631232612

Service Request: R1800602

Sample Name: BAT89-12 (1) 180123
Lab Code: R1800602-005
Sample Matrix: Water

Date Collected: 01/23/18
Date Received: 01/23/18

Analysis Method

SM 4500-CO2 D
SM 4500-H+ B
SM 5310 C-2000(2011)

Extracted/Digested By

Analyzed By

CWOODS
JJANSON
CWOODS

Sample Name: BAT89-10 (1) 180123
Lab Code: R1800602-006
Sample Matrix: Water

Date Collected: 01/23/18
Date Received: 01/23/18

Analysis Method

8260C
9056A
Organic Acids
RSK 175
SM 2320 B-1997(2011)

SM 3500-Fe B.4.c
SM 4500-CO2 D
SM 4500-H+ B
SM 5310 C-2000(2011)

Extracted/Digested By

Analyzed By

FNAEGLER
AMOSSES
BALLGEIER
AMOSSES
CWOODS

MROGERSON
CWOODS
JJANSON
CWOODS

Sample Name: BAT-DW-11 180123
Lab Code: R1800602-007
Sample Matrix: Water

Date Collected: 01/23/18
Date Received: 01/23/18

Analysis Method

8260C
9056A
Organic Acids
RSK 175
SM 2320 B-1997(2011)

SM 3500-Fe B.4.c
SM 4500-CO2 D
SM 4500-H+ B

Extracted/Digested By

Analyzed By

FNAEGLER
AMOSSES
BALLGEIER
AMOSSES
CWOODS

MROGERSON
CWOODS
JJANSON

ALS Group USA, Corp.
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Analyst Summary report

Client: APTIM, Inc
Project: Textron Injection/631232612

Service Request: R1800602

Sample Name: BAT-DW-11 180123
Lab Code: R1800602-007
Sample Matrix: Water

Date Collected: 01/23/18
Date Received: 01/23/18

Analysis Method
SM 5310 C-2000(2011)

Extracted/Digested By

Analyzed By
TSANTIAGO

Sample Name: BAT87-B-14 (1) 180123
Lab Code: R1800602-008
Sample Matrix: Water

Date Collected: 01/23/18
Date Received: 01/23/18

Analysis Method
8260C
9056A
Organic Acids
RSK 175
SM 2320 B-1997(2011)

Extracted/Digested By

Analyzed By
FNAEGLER
AMOSE
BALLGEIER
AMOSE
CWOODS

SM 3500-Fe B.4.c
SM 4500-CO2 D
SM 4500-H+ B
SM 5310 C-2000(2011)

MROGERSON
CWOODS
JJANSON
TSANTIAGO

Sample Name: BAT87-09 (1) 180123
Lab Code: R1800602-009
Sample Matrix: Water

Date Collected: 01/23/18
Date Received: 01/23/18

Analysis Method
8260C
9056A
Organic Acids
RSK 175
SM 2320 B-1997(2011)

Extracted/Digested By

Analyzed By
FNAEGLER
AMOSE
BALLGEIER
AMOSE
CWOODS

SM 3500-Fe B.4.c
SM 4500-CO2 D
SM 4500-H+ B
SM 5310 C-2000(2011)

MROGERSON
CWOODS
JJANSON
TSANTIAGO

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Analyst Summary report

Client: APTIM, Inc
Project: Textron Injection/631232612

Service Request: R1800602

Sample Name: BAT87-02 (1) 180124
Lab Code: R1800602-010
Sample Matrix: Water

Date Collected: 01/24/18
Date Received: 01/24/18

Analysis Method

Extracted/Digested By

Analyzed By

8260C		FNAEGLER
9056A		CWOODS
Organic Acids		BALLGEIER
RSK 175		AMOSSES
SM 2320 B-1997(2011)		CWOODS
SM 3500-Fe B.4.c		MROGERSON
SM 4500-CO2 D		CWOODS
SM 4500-H+ B		JJANSON
SM 5310 C-2000(2011)		TSANTIAGO

Sample Name: BAT-DW-12 180124
Lab Code: R1800602-011
Sample Matrix: Water

Date Collected: 01/24/18
Date Received: 01/24/18

Analysis Method

Extracted/Digested By

Analyzed By

8260C		FNAEGLER
9056A		AMOSSES
9056A		CWOODS
Organic Acids		BALLGEIER
RSK 175		AMOSSES
SM 2320 B-1997(2011)		CWOODS
SM 3500-Fe B.4.c		MROGERSON
SM 4500-CO2 D		CWOODS
SM 4500-H+ B		JJANSON
SM 5310 C-2000(2011)		TSANTIAGO

Sample Name: BAT89-15 (1) 180124
Lab Code: R1800602-012
Sample Matrix: Water

Date Collected: 01/24/18
Date Received: 01/24/18

Analysis Method

Extracted/Digested By

Analyzed By

8260C		FNAEGLER
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Analyst Summary report

Client: APTIM, Inc
Project: Textron Injection/631232612

Service Request: R1800602

Sample Name: BAT89-15 (1) 180124
Lab Code: R1800602-012
Sample Matrix: Water

Date Collected: 01/24/18
Date Received: 01/24/18

Analysis Method	Extracted/Digested By	Analyzed By
9056A		CWOODS
Organic Acids		BALLGEIER
RSK 175		AMOSSES
SM 2320 B-1997(2011)		CWOODS
SM 3500-Fe B.4.c		MROGERSON
SM 4500-CO2 D		CWOODS
SM 4500-H+ B		JJANSON
SM 5310 C-2000(2011)		CWOODS

Sample Name: BAT-DW-10 180124
Lab Code: R1800602-013
Sample Matrix: Water

Date Collected: 01/24/18
Date Received: 01/24/18

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER
9056A		CWOODS
9056A		AMOSSES
Organic Acids		BALLGEIER
RSK 175		AMOSSES
SM 2320 B-1997(2011)		CWOODS
SM 3500-Fe B.4.c		MROGERSON
SM 4500-CO2 D		CWOODS
SM 4500-H+ B		JJANSON
SM 5310 C-2000(2011)		TSANTIAGO

Sample Name: BAT87-08 (1) 180124
Lab Code: R1800602-014
Sample Matrix: Water

Date Collected: 01/24/18
Date Received: 01/24/18

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER
9056A		CWOODS

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Analyst Summary report

Client: APTIM, Inc
Project: Textron Injection/631232612

Service Request: R1800602

Sample Name: BAT87-08 (1) 180124
Lab Code: R1800602-014
Sample Matrix: Water

Date Collected: 01/24/18
Date Received: 01/24/18

Analysis Method	Extracted/Digested By	Analyzed By
9056A		AMOSES
Organic Acids		BALLGEIER
RSK 175		AMOSES
SM 2320 B-1997(2011)		CWOODS
SM 3500-Fe B.4.c		MROGERSON
SM 4500-CO2 D		CWOODS
SM 4500-H+ B		JJANSON
SM 5310 C-2000(2011)		CWOODS

Sample Name: BAT-DW-9 180124
Lab Code: R1800602-015
Sample Matrix: Water

Date Collected: 01/24/18
Date Received: 01/24/18

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER
9056A		CWOODS
Organic Acids		BALLGEIER
RSK 175		AMOSES
SM 2320 B-1997(2011)		CWOODS
SM 3500-Fe B.4.c		MROGERSON
SM 4500-CO2 D		CWOODS
SM 4500-H+ B		JJANSON
SM 5310 C-2000(2011)		TSANTIAGO

Sample Name: BAT B-10A (1) 180124
Lab Code: R1800602-016
Sample Matrix: Water

Date Collected: 01/24/18
Date Received: 01/24/18

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER
9056A		CWOODS
Organic Acids		BALLGEIER

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Analyst Summary report

Client: APTIM, Inc
Project: Textron Injection/631232612

Service Request: R1800602

Sample Name: BAT B-10A (1) 180124
Lab Code: R1800602-016
Sample Matrix: Water

Date Collected: 01/24/18
Date Received: 01/24/18

Analysis Method	Extracted/Digested By	Analyzed By
RSK 175		AMOSES
SM 2320 B-1997(2011)		CWOODS
SM 3500-Fe B.4.c		MROGERSON
SM 4500-CO2 D		CWOODS
SM 4500-H+ B		JJANSON
SM 5310 C-2000(2011)		CWOODS

Sample Name: BAT87-13 (1) 180124
Lab Code: R1800602-017
Sample Matrix: Water

Date Collected: 01/24/18
Date Received: 01/24/18

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER
9056A		CWOODS
9056A		AMOSES
Organic Acids		BALLGEIER
RSK 175		AMOSES
SM 2320 B-1997(2011)		CWOODS
SM 3500-Fe B.4.c		MROGERSON
SM 4500-CO2 D		CWOODS
SM 4500-H+ B		JJANSON
SM 5310 C-2000(2011)		CWOODS

Sample Name: BAT87-17 (1) 180124
Lab Code: R1800602-018
Sample Matrix: Water

Date Collected: 01/24/18
Date Received: 01/24/18

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER
9056A		CWOODS
Organic Acids		BALLGEIER
RSK 175		AMOSES

ALS Group USA, Corp.
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Analyst Summary report

Client: APTIM, Inc
Project: Textron Injection/631232612

Service Request: R1800602

Sample Name: BAT87-17 (1) 180124
Lab Code: R1800602-018
Sample Matrix: Water

Date Collected: 01/24/18
Date Received: 01/24/18

Analysis Method

Extracted/Digested By

Analyzed By

SM 2320 B-1997(2011)

CWOODS

SM 3500-Fe B.4.c

MROGERSON

SM 4500-CO2 D

CWOODS

SM 4500-H+ B

JJANSON

SM 5310 C-2000(2011)

TSANTIAGO

Sample Name: BAT87-12 (1) 180124
Lab Code: R1800602-019
Sample Matrix: Water

Date Collected: 01/23/18
Date Received: 01/24/18

Analysis Method

Extracted/Digested By

Analyzed By

8260C

FNAEGLER

RSK 175

AMOSEs

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

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/23/18 09:45
Date Received: 01/23/18 17:20

Sample Name: BAT87-01 (1) 180123
Lab Code: R1800602-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	10 U	10	2.1	10	01/26/18 18:29	
Vinyl Chloride	320	10	3.2	10	01/26/18 18:29	
Chloroethane	10 U	10	2.4	10	01/26/18 18:29	
Bromomethane	10 U	10	2.9	10	01/26/18 18:29	
1,1-Dichloroethene	10 U	10	5.7	10	01/26/18 18:29	
Acetone	50 U	50	13	10	01/26/18 18:29	
Carbon Disulfide	10 U	10	2.2	10	01/26/18 18:29	
Methylene Chloride	16	10	6.0	10	01/26/18 18:29	
trans-1,2-Dichloroethene	5.2 J	10	3.3	10	01/26/18 18:29	
1,1-Dichloroethane	15	10	2.0	10	01/26/18 18:29	
cis-1,2-Dichloroethene	1200	10	3.0	10	01/26/18 18:29	
2-Butanone (MEK)	50 U	50	8.1	10	01/26/18 18:29	
Chloroform	10 U	10	2.5	10	01/26/18 18:29	
1,1,1-Trichloroethane	22	10	3.6	10	01/26/18 18:29	
Carbon Tetrachloride	10 U	10	4.5	10	01/26/18 18:29	
Benzene	10 U	10	2.0	10	01/26/18 18:29	
1,2-Dichloroethane	10 U	10	3.6	10	01/26/18 18:29	
Trichloroethene	23	10	2.2	10	01/26/18 18:29	
1,2-Dichloropropane	10 U	10	2.0	10	01/26/18 18:29	
Bromodichloromethane	10 U	10	3.2	10	01/26/18 18:29	
cis-1,3-Dichloropropene	10 U	10	2.4	10	01/26/18 18:29	
4-Methyl-2-pentanone (MIBK)	50 U	50	6.7	10	01/26/18 18:29	
Toluene	10 U	10	2.0	10	01/26/18 18:29	
trans-1,3-Dichloropropene	10 U	10	2.0	10	01/26/18 18:29	
1,1,2-Trichloroethane	10 U	10	3.4	10	01/26/18 18:29	
Tetrachloroethene	10 U	10	3.0	10	01/26/18 18:29	
2-Hexanone	50 U	50	17	10	01/26/18 18:29	
Dibromochloromethane	10 U	10	3.1	10	01/26/18 18:29	
Chlorobenzene	10 U	10	2.9	10	01/26/18 18:29	
Ethylbenzene	10 U	10	2.0	10	01/26/18 18:29	
m,p-Xylenes	20 U	20	3.3	10	01/26/18 18:29	
o-Xylene	10 U	10	2.0	10	01/26/18 18:29	
Styrene	10 U	10	2.0	10	01/26/18 18:29	
Bromoform	10 U	10	4.2	10	01/26/18 18:29	
1,1,2,2-Tetrachloroethane	10 U	10	2.5	10	01/26/18 18:29	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/23/18 09:45
Date Received: 01/23/18 17:20

Sample Name: BAT87-01 (1) 180123
Lab Code: R1800602-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	01/26/18 18:29	
Toluene-d8	100	87 - 121	01/26/18 18:29	
Dibromofluoromethane	97	89 - 119	01/26/18 18:29	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/23/18 11:10
Date Received: 01/23/18 17:20

Sample Name: BAT87-20 (1) 180123
Lab Code: R1800602-003

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	50 U	50	11	50	01/26/18 18:51	
Vinyl Chloride	1600	50	16	50	01/26/18 18:51	
Chloroethane	50 U	50	12	50	01/26/18 18:51	
Bromomethane	50 U	50	15	50	01/26/18 18:51	
1,1-Dichloroethene	50 U	50	29	50	01/26/18 18:51	
Acetone	250 U	250	62	50	01/26/18 18:51	
Carbon Disulfide	50 U	50	11	50	01/26/18 18:51	
Methylene Chloride	50 U	50	30	50	01/26/18 18:51	
trans-1,2-Dichloroethene	50 U	50	17	50	01/26/18 18:51	
1,1-Dichloroethane	16 J	50	10	50	01/26/18 18:51	
cis-1,2-Dichloroethene	4800	50	15	50	01/26/18 18:51	
2-Butanone (MEK)	250 U	250	41	50	01/26/18 18:51	
Chloroform	50 U	50	13	50	01/26/18 18:51	
1,1,1-Trichloroethane	21 J	50	18	50	01/26/18 18:51	
Carbon Tetrachloride	50 U	50	23	50	01/26/18 18:51	
Benzene	50 U	50	10	50	01/26/18 18:51	
1,2-Dichloroethane	50 U	50	18	50	01/26/18 18:51	
Trichloroethene	39 J	50	11	50	01/26/18 18:51	
1,2-Dichloropropane	50 U	50	10	50	01/26/18 18:51	
Bromodichloromethane	50 U	50	16	50	01/26/18 18:51	
cis-1,3-Dichloropropene	50 U	50	12	50	01/26/18 18:51	
4-Methyl-2-pentanone (MIBK)	250 U	250	34	50	01/26/18 18:51	
Toluene	50 U	50	10	50	01/26/18 18:51	
trans-1,3-Dichloropropene	50 U	50	10	50	01/26/18 18:51	
1,1,2-Trichloroethane	50 U	50	17	50	01/26/18 18:51	
Tetrachloroethene	50 U	50	15	50	01/26/18 18:51	
2-Hexanone	250 U	250	83	50	01/26/18 18:51	
Dibromochloromethane	50 U	50	16	50	01/26/18 18:51	
Chlorobenzene	50 U	50	15	50	01/26/18 18:51	
Ethylbenzene	50 U	50	10	50	01/26/18 18:51	
m,p-Xylenes	100 U	100	17	50	01/26/18 18:51	
o-Xylene	50 U	50	10	50	01/26/18 18:51	
Styrene	50 U	50	10	50	01/26/18 18:51	
Bromoform	50 U	50	21	50	01/26/18 18:51	
1,1,2,2-Tetrachloroethane	50 U	50	13	50	01/26/18 18:51	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/23/18 11:10
Date Received: 01/23/18 17:20

Sample Name: BAT87-20 (1) 180123
Lab Code: R1800602-003

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	01/26/18 18:51	
Toluene-d8	99	87 - 121	01/26/18 18:51	
Dibromofluoromethane	97	89 - 119	01/26/18 18:51	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/23/18 11:50
Date Received: 01/23/18 17:20

Sample Name: BAT87-22 (1) 180123
Lab Code: R1800602-004

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	25 U	25	5.3	25	01/29/18 20:32	
Vinyl Chloride	1100 D	25	8.0	25	01/29/18 20:32	
Chloroethane	25 U	25	6.0	25	01/29/18 20:32	
Bromomethane	25 U	25	7.3	25	01/29/18 20:32	
1,1-Dichloroethene	25 U	25	15	25	01/29/18 20:32	
Acetone	130 U	130	31	25	01/29/18 20:32	
Carbon Disulfide	25 U	25	5.5	25	01/29/18 20:32	
Methylene Chloride	25 U	25	15	25	01/29/18 20:32	
trans-1,2-Dichloroethene	12 DJ	25	8.3	25	01/29/18 20:32	
1,1-Dichloroethane	9.3 DJ	25	5.0	25	01/29/18 20:32	
cis-1,2-Dichloroethene	2700 D	25	7.5	25	01/29/18 20:32	
2-Butanone (MEK)	130 U	130	21	25	01/29/18 20:32	
Chloroform	25 U	25	6.3	25	01/29/18 20:32	
1,1,1-Trichloroethane	25 U	25	9.0	25	01/29/18 20:32	
Carbon Tetrachloride	25 U	25	12	25	01/29/18 20:32	
Benzene	25 U	25	5.0	25	01/29/18 20:32	
1,2-Dichloroethane	25 U	25	9.0	25	01/29/18 20:32	
Trichloroethene	70 D	25	5.5	25	01/29/18 20:32	
1,2-Dichloropropane	25 U	25	5.0	25	01/29/18 20:32	
Bromodichloromethane	25 U	25	8.0	25	01/29/18 20:32	
cis-1,3-Dichloropropene	25 U	25	6.0	25	01/29/18 20:32	
4-Methyl-2-pentanone (MIBK)	130 U	130	17	25	01/29/18 20:32	
Toluene	25 U	25	5.0	25	01/29/18 20:32	
trans-1,3-Dichloropropene	25 U	25	5.0	25	01/29/18 20:32	
1,1,2-Trichloroethane	25 U	25	8.5	25	01/29/18 20:32	
Tetrachloroethene	25 U	25	7.5	25	01/29/18 20:32	
2-Hexanone	130 U	130	42	25	01/29/18 20:32	
Dibromochloromethane	25 U	25	7.8	25	01/29/18 20:32	
Chlorobenzene	25 U	25	7.3	25	01/29/18 20:32	
Ethylbenzene	25 U	25	5.0	25	01/29/18 20:32	
m,p-Xylenes	50 U	50	8.3	25	01/29/18 20:32	
o-Xylene	25 U	25	5.0	25	01/29/18 20:32	
Styrene	25 U	25	5.0	25	01/29/18 20:32	
Bromoform	25 U	25	11	25	01/29/18 20:32	
1,1,2,2-Tetrachloroethane	25 U	25	6.3	25	01/29/18 20:32	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/23/18 11:50
Date Received: 01/23/18 17:20

Sample Name: BAT87-22 (1) 180123
Lab Code: R1800602-004

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85 - 122	01/29/18 20:32	
Toluene-d8	93	87 - 121	01/29/18 20:32	
Dibromofluoromethane	93	89 - 119	01/29/18 20:32	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/23/18 13:00
Date Received: 01/23/18 17:20

Sample Name: BAT89-12 (1) 180123
Lab Code: R1800602-005

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	10 U	10	2.1	10	01/26/18 19:35	
Vinyl Chloride	800	10	3.2	10	01/26/18 19:35	
Chloroethane	10 U	10	2.4	10	01/26/18 19:35	
Bromomethane	10 U	10	2.9	10	01/26/18 19:35	
1,1-Dichloroethene	10 U	10	5.7	10	01/26/18 19:35	
Acetone	50 U	50	13	10	01/26/18 19:35	
Carbon Disulfide	47	10	2.2	10	01/26/18 19:35	
Methylene Chloride	10 U	10	6.0	10	01/26/18 19:35	
trans-1,2-Dichloroethene	5.1 J	10	3.3	10	01/26/18 19:35	
1,1-Dichloroethane	21	10	2.0	10	01/26/18 19:35	
cis-1,2-Dichloroethene	1900	10	3.0	10	01/26/18 19:35	
2-Butanone (MEK)	50 U	50	8.1	10	01/26/18 19:35	
Chloroform	10 U	10	2.5	10	01/26/18 19:35	
1,1,1-Trichloroethane	17	10	3.6	10	01/26/18 19:35	
Carbon Tetrachloride	10 U	10	4.5	10	01/26/18 19:35	
Benzene	10 U	10	2.0	10	01/26/18 19:35	
1,2-Dichloroethane	10 U	10	3.6	10	01/26/18 19:35	
Trichloroethene	42	10	2.2	10	01/26/18 19:35	
1,2-Dichloropropane	10 U	10	2.0	10	01/26/18 19:35	
Bromodichloromethane	10 U	10	3.2	10	01/26/18 19:35	
cis-1,3-Dichloropropene	10 U	10	2.4	10	01/26/18 19:35	
4-Methyl-2-pentanone (MIBK)	50 U	50	6.7	10	01/26/18 19:35	
Toluene	10 U	10	2.0	10	01/26/18 19:35	
trans-1,3-Dichloropropene	10 U	10	2.0	10	01/26/18 19:35	
1,1,2-Trichloroethane	10 U	10	3.4	10	01/26/18 19:35	
Tetrachloroethene	10 U	10	3.0	10	01/26/18 19:35	
2-Hexanone	50 U	50	17	10	01/26/18 19:35	
Dibromochloromethane	10 U	10	3.1	10	01/26/18 19:35	
Chlorobenzene	10 U	10	2.9	10	01/26/18 19:35	
Ethylbenzene	10 U	10	2.0	10	01/26/18 19:35	
m,p-Xylenes	20 U	20	3.3	10	01/26/18 19:35	
o-Xylene	10 U	10	2.0	10	01/26/18 19:35	
Styrene	10 U	10	2.0	10	01/26/18 19:35	
Bromoform	10 U	10	4.2	10	01/26/18 19:35	
1,1,2,2-Tetrachloroethane	10 U	10	2.5	10	01/26/18 19:35	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT89-12 (1) 180123
Lab Code: R1800602-005

Service Request: R1800602
Date Collected: 01/23/18 13:00
Date Received: 01/23/18 17:20
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	01/26/18 19:35	
Toluene-d8	98	87 - 121	01/26/18 19:35	
Dibromofluoromethane	97	89 - 119	01/26/18 19:35	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/23/18 13:50
Date Received: 01/23/18 17:20

Sample Name: BAT89-10 (1) 180123
Lab Code: R1800602-006

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	10 U	10	2.1	10	01/26/18 19:57	
Vinyl Chloride	360	10	3.2	10	01/26/18 19:57	
Chloroethane	10 U	10	2.4	10	01/26/18 19:57	
Bromomethane	10 U	10	2.9	10	01/26/18 19:57	
1,1-Dichloroethene	20	10	5.7	10	01/26/18 19:57	
Acetone	50 U	50	13	10	01/26/18 19:57	
Carbon Disulfide	63	10	2.2	10	01/26/18 19:57	
Methylene Chloride	3700 D	200	120	200	01/29/18 20:10	
trans-1,2-Dichloroethene	12	10	3.3	10	01/26/18 19:57	
1,1-Dichloroethane	29	10	2.0	10	01/26/18 19:57	
cis-1,2-Dichloroethene	4300 D	200	60	200	01/29/18 20:10	
2-Butanone (MEK)	50 U	50	8.1	10	01/26/18 19:57	
Chloroform	10 U	10	2.5	10	01/26/18 19:57	
1,1,1-Trichloroethane	85	10	3.6	10	01/26/18 19:57	
Carbon Tetrachloride	10 U	10	4.5	10	01/26/18 19:57	
Benzene	10 U	10	2.0	10	01/26/18 19:57	
1,2-Dichloroethane	10 U	10	3.6	10	01/26/18 19:57	
Trichloroethene	17000 D	200	44	200	01/29/18 20:10	
1,2-Dichloropropane	10 U	10	2.0	10	01/26/18 19:57	
Bromodichloromethane	10 U	10	3.2	10	01/26/18 19:57	
cis-1,3-Dichloropropene	10 U	10	2.4	10	01/26/18 19:57	
4-Methyl-2-pentanone (MIBK)	50 U	50	6.7	10	01/26/18 19:57	
Toluene	8.4 J	10	2.0	10	01/26/18 19:57	
trans-1,3-Dichloropropene	10 U	10	2.0	10	01/26/18 19:57	
1,1,2-Trichloroethane	10 U	10	3.4	10	01/26/18 19:57	
Tetrachloroethene	10 U	10	3.0	10	01/26/18 19:57	
2-Hexanone	50 U	50	17	10	01/26/18 19:57	
Dibromochloromethane	10 U	10	3.1	10	01/26/18 19:57	
Chlorobenzene	10 U	10	2.9	10	01/26/18 19:57	
Ethylbenzene	10 U	10	2.0	10	01/26/18 19:57	
m,p-Xylenes	20 U	20	3.3	10	01/26/18 19:57	
o-Xylene	10 U	10	2.0	10	01/26/18 19:57	
Styrene	10 U	10	2.0	10	01/26/18 19:57	
Bromoform	10 U	10	4.2	10	01/26/18 19:57	
1,1,2,2-Tetrachloroethane	10 U	10	2.5	10	01/26/18 19:57	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT89-10 (1) 180123
Lab Code: R1800602-006

Service Request: R1800602
Date Collected: 01/23/18 13:50
Date Received: 01/23/18 17:20
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85 - 122	01/26/18 19:57	
Toluene-d8	99	87 - 121	01/26/18 19:57	
Dibromofluoromethane	99	89 - 119	01/26/18 19:57	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/23/18 14:20
Date Received: 01/23/18 17:20

Sample Name: BAT-DW-11 180123
Lab Code: R1800602-007

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	01/29/18 15:21	
Vinyl Chloride	13	1.0	0.32	1	01/29/18 15:21	
Chloroethane	1.0 U	1.0	0.24	1	01/29/18 15:21	
Bromomethane	1.0 U	1.0	0.29	1	01/29/18 15:21	
1,1-Dichloroethane	1.0 U	1.0	0.57	1	01/29/18 15:21	
Acetone	48	5.0	1.3	1	01/29/18 15:21	
Carbon Disulfide	0.39 J	1.0	0.22	1	01/29/18 15:21	
Methylene Chloride	11	1.0	0.60	1	01/29/18 15:21	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	01/29/18 15:21	
1,1-Dichloroethane	0.88 J	1.0	0.20	1	01/29/18 15:21	
cis-1,2-Dichloroethene	23	1.0	0.30	1	01/29/18 15:21	
2-Butanone (MEK)	1.0 J	5.0	0.81	1	01/29/18 15:21	
Chloroform	1.0 U	1.0	0.25	1	01/29/18 15:21	
1,1,1-Trichloroethane	3.3	1.0	0.36	1	01/29/18 15:21	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	01/29/18 15:21	
Benzene	0.84 J	1.0	0.20	1	01/29/18 15:21	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	01/29/18 15:21	
Trichloroethene	520 D	5.0	1.1	5	01/30/18 20:41	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	01/29/18 15:21	
Bromodichloromethane	1.0 U	1.0	0.32	1	01/29/18 15:21	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	01/29/18 15:21	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	01/29/18 15:21	
Toluene	0.54 J	1.0	0.20	1	01/29/18 15:21	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	01/29/18 15:21	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	01/29/18 15:21	
Tetrachloroethene	0.46 J	1.0	0.30	1	01/29/18 15:21	
2-Hexanone	5.0 U	5.0	1.7	1	01/29/18 15:21	
Dibromochloromethane	1.0 U	1.0	0.31	1	01/29/18 15:21	
Chlorobenzene	1.0 U	1.0	0.29	1	01/29/18 15:21	
Ethylbenzene	1.0 U	1.0	0.20	1	01/29/18 15:21	
m,p-Xylenes	0.56 J	2.0	0.33	1	01/29/18 15:21	
o-Xylene	1.0 U	1.0	0.20	1	01/29/18 15:21	
Styrene	1.0 U	1.0	0.20	1	01/29/18 15:21	
Bromoform	1.0 U	1.0	0.42	1	01/29/18 15:21	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	01/29/18 15:21	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/23/18 14:20
Date Received: 01/23/18 17:20

Sample Name: BAT-DW-11 180123
Lab Code: R1800602-007

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85 - 122	01/29/18 15:21	
Toluene-d8	93	87 - 121	01/29/18 15:21	
Dibromofluoromethane	92	89 - 119	01/29/18 15:21	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/23/18 15:00
Date Received: 01/23/18 17:20

Sample Name: BAT87-B-14 (1) 180123
Lab Code: R1800602-008

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	2.0 U	2.0	0.42	2	01/30/18 19:35	
Vinyl Chloride	180	2.0	0.64	2	01/30/18 19:35	
Chloroethane	2.0 U	2.0	0.48	2	01/30/18 19:35	
Bromomethane	2.0 U	2.0	0.58	2	01/30/18 19:35	
1,1-Dichloroethene	2.0 U	2.0	1.2	2	01/30/18 19:35	
Acetone	10 U	10	2.5	2	01/30/18 19:35	
Carbon Disulfide	3.1	2.0	0.44	2	01/30/18 19:35	
Methylene Chloride	2.0 U	2.0	1.2	2	01/30/18 19:35	
trans-1,2-Dichloroethene	1.6 J	2.0	0.66	2	01/30/18 19:35	
1,1-Dichloroethane	15	2.0	0.40	2	01/30/18 19:35	
cis-1,2-Dichloroethene	100	2.0	0.60	2	01/30/18 19:35	
2-Butanone (MEK)	10 U	10	1.7	2	01/30/18 19:35	
Chloroform	2.0 U	2.0	0.50	2	01/30/18 19:35	
1,1,1-Trichloroethane	52	2.0	0.72	2	01/30/18 19:35	
Carbon Tetrachloride	2.0 U	2.0	0.90	2	01/30/18 19:35	
Benzene	2.0 U	2.0	0.40	2	01/30/18 19:35	
1,2-Dichloroethane	2.0 U	2.0	0.72	2	01/30/18 19:35	
Trichloroethene	1.6 J	2.0	0.44	2	01/30/18 19:35	
1,2-Dichloropropane	2.0 U	2.0	0.40	2	01/30/18 19:35	
Bromodichloromethane	2.0 U	2.0	0.64	2	01/30/18 19:35	
cis-1,3-Dichloropropene	2.0 U	2.0	0.48	2	01/30/18 19:35	
4-Methyl-2-pentanone (MIBK)	10 U	10	1.4	2	01/30/18 19:35	
Toluene	2.0 U	2.0	0.40	2	01/30/18 19:35	
trans-1,3-Dichloropropene	2.0 U	2.0	0.40	2	01/30/18 19:35	
1,1,2-Trichloroethane	2.0 U	2.0	0.68	2	01/30/18 19:35	
Tetrachloroethene	2.0 U	2.0	0.60	2	01/30/18 19:35	
2-Hexanone	10 U	10	3.4	2	01/30/18 19:35	
Dibromochloromethane	2.0 U	2.0	0.62	2	01/30/18 19:35	
Chlorobenzene	2.0 U	2.0	0.58	2	01/30/18 19:35	
Ethylbenzene	2.0 U	2.0	0.40	2	01/30/18 19:35	
m,p-Xylenes	4.0 U	4.0	0.66	2	01/30/18 19:35	
o-Xylene	2.0 U	2.0	0.40	2	01/30/18 19:35	
Styrene	2.0 U	2.0	0.40	2	01/30/18 19:35	
Bromoform	2.0 U	2.0	0.84	2	01/30/18 19:35	
1,1,2,2-Tetrachloroethane	2.0 U	2.0	0.50	2	01/30/18 19:35	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/23/18 15:00
Date Received: 01/23/18 17:20

Sample Name: BAT87-B-14 (1) 180123
Lab Code: R1800602-008

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85 - 122	01/30/18 19:35	
Toluene-d8	93	87 - 121	01/30/18 19:35	
Dibromofluoromethane	92	89 - 119	01/30/18 19:35	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/23/18 15:25
Date Received: 01/23/18 17:20

Sample Name: BAT87-09 (1) 180123
Lab Code: R1800602-009

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	2.0 U	2.0	0.42	2	01/30/18 19:57	
Vinyl Chloride	200	2.0	0.64	2	01/30/18 19:57	
Chloroethane	2.0 U	2.0	0.48	2	01/30/18 19:57	
Bromomethane	2.0 U	2.0	0.58	2	01/30/18 19:57	
1,1-Dichloroethene	1.4 J	2.0	1.2	2	01/30/18 19:57	
Acetone	2.5 J	10	2.5	2	01/30/18 19:57	
Carbon Disulfide	2.2	2.0	0.44	2	01/30/18 19:57	
Methylene Chloride	2.0 U	2.0	1.2	2	01/30/18 19:57	
trans-1,2-Dichloroethene	1.6 J	2.0	0.66	2	01/30/18 19:57	
1,1-Dichloroethane	17	2.0	0.40	2	01/30/18 19:57	
cis-1,2-Dichloroethene	130	2.0	0.60	2	01/30/18 19:57	
2-Butanone (MEK)	10 U	10	1.7	2	01/30/18 19:57	
Chloroform	2.0 U	2.0	0.50	2	01/30/18 19:57	
1,1,1-Trichloroethane	79	2.0	0.72	2	01/30/18 19:57	
Carbon Tetrachloride	2.0 U	2.0	0.90	2	01/30/18 19:57	
Benzene	2.0 U	2.0	0.40	2	01/30/18 19:57	
1,2-Dichloroethane	2.0 U	2.0	0.72	2	01/30/18 19:57	
Trichloroethene	2.1	2.0	0.44	2	01/30/18 19:57	
1,2-Dichloropropane	2.0 U	2.0	0.40	2	01/30/18 19:57	
Bromodichloromethane	2.0 U	2.0	0.64	2	01/30/18 19:57	
cis-1,3-Dichloropropene	2.0 U	2.0	0.48	2	01/30/18 19:57	
4-Methyl-2-pentanone (MIBK)	10 U	10	1.4	2	01/30/18 19:57	
Toluene	2.0 U	2.0	0.40	2	01/30/18 19:57	
trans-1,3-Dichloropropene	2.0 U	2.0	0.40	2	01/30/18 19:57	
1,1,2-Trichloroethane	2.0 U	2.0	0.68	2	01/30/18 19:57	
Tetrachloroethene	2.0 U	2.0	0.60	2	01/30/18 19:57	
2-Hexanone	10 U	10	3.4	2	01/30/18 19:57	
Dibromochloromethane	2.0 U	2.0	0.62	2	01/30/18 19:57	
Chlorobenzene	2.0 U	2.0	0.58	2	01/30/18 19:57	
Ethylbenzene	2.0 U	2.0	0.40	2	01/30/18 19:57	
m,p-Xylenes	4.0 U	4.0	0.66	2	01/30/18 19:57	
o-Xylene	2.0 U	2.0	0.40	2	01/30/18 19:57	
Styrene	2.0 U	2.0	0.40	2	01/30/18 19:57	
Bromoform	2.0 U	2.0	0.84	2	01/30/18 19:57	
1,1,2,2-Tetrachloroethane	2.0 U	2.0	0.50	2	01/30/18 19:57	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT87-09 (1) 180123
Lab Code: R1800602-009

Service Request: R1800602
Date Collected: 01/23/18 15:25
Date Received: 01/23/18 17:20
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85 - 122	01/30/18 19:57	
Toluene-d8	97	87 - 121	01/30/18 19:57	
Dibromofluoromethane	96	89 - 119	01/30/18 19:57	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/24/18 09:20
Date Received: 01/24/18 16:30

Sample Name: BAT87-02 (1) 180124
Lab Code: R1800602-010

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	25 U	25	5.3	25	01/29/18 17:57	
Vinyl Chloride	210	25	8.0	25	01/29/18 17:57	
Chloroethane	25 U	25	6.0	25	01/29/18 17:57	
Bromomethane	25 U	25	7.3	25	01/29/18 17:57	
1,1-Dichloroethene	25 U	25	15	25	01/29/18 17:57	
Acetone	130 U	130	31	25	01/29/18 17:57	
Carbon Disulfide	25 U	25	5.5	25	01/29/18 17:57	
Methylene Chloride	800	25	15	25	01/29/18 17:57	
trans-1,2-Dichloroethene	10 J	25	8.3	25	01/29/18 17:57	
1,1-Dichloroethane	19 J	25	5.0	25	01/29/18 17:57	
cis-1,2-Dichloroethene	3400	25	7.5	25	01/29/18 17:57	
2-Butanone (MEK)	130 U	130	21	25	01/29/18 17:57	
Chloroform	25 U	25	6.3	25	01/29/18 17:57	
1,1,1-Trichloroethane	31	25	9.0	25	01/29/18 17:57	
Carbon Tetrachloride	25 U	25	12	25	01/29/18 17:57	
Benzene	25 U	25	5.0	25	01/29/18 17:57	
1,2-Dichloroethane	25 U	25	9.0	25	01/29/18 17:57	
Trichloroethene	350	25	5.5	25	01/29/18 17:57	
1,2-Dichloropropane	25 U	25	5.0	25	01/29/18 17:57	
Bromodichloromethane	25 U	25	8.0	25	01/29/18 17:57	
cis-1,3-Dichloropropene	25 U	25	6.0	25	01/29/18 17:57	
4-Methyl-2-pentanone (MIBK)	130 U	130	17	25	01/29/18 17:57	
Toluene	25 U	25	5.0	25	01/29/18 17:57	
trans-1,3-Dichloropropene	25 U	25	5.0	25	01/29/18 17:57	
1,1,2-Trichloroethane	25 U	25	8.5	25	01/29/18 17:57	
Tetrachloroethene	25 U	25	7.5	25	01/29/18 17:57	
2-Hexanone	130 U	130	42	25	01/29/18 17:57	
Dibromochloromethane	25 U	25	7.8	25	01/29/18 17:57	
Chlorobenzene	25 U	25	7.3	25	01/29/18 17:57	
Ethylbenzene	25 U	25	5.0	25	01/29/18 17:57	
m,p-Xylenes	50 U	50	8.3	25	01/29/18 17:57	
o-Xylene	25 U	25	5.0	25	01/29/18 17:57	
Styrene	25 U	25	5.0	25	01/29/18 17:57	
Bromoform	25 U	25	11	25	01/29/18 17:57	
1,1,2,2-Tetrachloroethane	25 U	25	6.3	25	01/29/18 17:57	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/24/18 09:20
Date Received: 01/24/18 16:30

Sample Name: BAT87-02 (1) 180124
Lab Code: R1800602-010

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85 - 122	01/29/18 17:57	
Toluene-d8	93	87 - 121	01/29/18 17:57	
Dibromofluoromethane	93	89 - 119	01/29/18 17:57	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/24/18 09:50
Date Received: 01/24/18 16:30

Sample Name: BAT-DW-12 180124
Lab Code: R1800602-011

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	01/30/18 18:51	
Vinyl Chloride	1.0 U	1.0	0.32	1	01/30/18 18:51	
Chloroethane	1.0 U	1.0	0.24	1	01/30/18 18:51	
Bromomethane	1.0 U	1.0	0.29	1	01/30/18 18:51	
1,1-Dichloroethane	1.0 U	1.0	0.57	1	01/30/18 18:51	
Acetone	5.0 U	5.0	1.3	1	01/30/18 18:51	
Carbon Disulfide	1.0 U	1.0	0.22	1	01/30/18 18:51	
Methylene Chloride	1.0 U	1.0	0.60	1	01/30/18 18:51	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	01/30/18 18:51	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	01/30/18 18:51	
cis-1,2-Dichloroethene	2.2	1.0	0.30	1	01/30/18 18:51	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	01/30/18 18:51	
Chloroform	0.35 J	1.0	0.25	1	01/30/18 18:51	
1,1,1-Trichloroethane	1.0 U	1.0	0.36	1	01/30/18 18:51	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	01/30/18 18:51	
Benzene	1.0 U	1.0	0.20	1	01/30/18 18:51	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	01/30/18 18:51	
Trichloroethene	0.87 J	1.0	0.22	1	01/30/18 18:51	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	01/30/18 18:51	
Bromodichloromethane	1.0 U	1.0	0.32	1	01/30/18 18:51	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	01/30/18 18:51	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	01/30/18 18:51	
Toluene	1.0 U	1.0	0.20	1	01/30/18 18:51	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	01/30/18 18:51	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	01/30/18 18:51	
Tetrachloroethene	1.0 U	1.0	0.30	1	01/30/18 18:51	
2-Hexanone	5.0 U	5.0	1.7	1	01/30/18 18:51	
Dibromochloromethane	1.0 U	1.0	0.31	1	01/30/18 18:51	
Chlorobenzene	1.0 U	1.0	0.29	1	01/30/18 18:51	
Ethylbenzene	1.0 U	1.0	0.20	1	01/30/18 18:51	
m,p-Xylenes	2.0 U	2.0	0.33	1	01/30/18 18:51	
o-Xylene	1.0 U	1.0	0.20	1	01/30/18 18:51	
Styrene	1.0 U	1.0	0.20	1	01/30/18 18:51	
Bromoform	1.0 U	1.0	0.42	1	01/30/18 18:51	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	01/30/18 18:51	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/24/18 09:50
Date Received: 01/24/18 16:30

Sample Name: BAT-DW-12 180124
Lab Code: R1800602-011

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85 - 122	01/30/18 18:51	
Toluene-d8	94	87 - 121	01/30/18 18:51	
Dibromofluoromethane	93	89 - 119	01/30/18 18:51	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/24/18 10:35
Date Received: 01/24/18 16:30

Sample Name: BAT89-15 (1) 180124
Lab Code: R1800602-012

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	01/29/18 16:06	
Vinyl Chloride	270 D	5.0	1.6	5	01/30/18 21:03	
Chloroethane	1.0 U	1.0	0.24	1	01/29/18 16:06	
Bromomethane	1.0 U	1.0	0.29	1	01/29/18 16:06	
1,1-Dichloroethene	2.3	1.0	0.57	1	01/29/18 16:06	
Acetone	5.0 U	5.0	1.3	1	01/29/18 16:06	
Carbon Disulfide	5.5	1.0	0.22	1	01/29/18 16:06	
Methylene Chloride	360 D	5.0	3.0	5	01/30/18 21:03	
trans-1,2-Dichloroethene	3.0	1.0	0.33	1	01/29/18 16:06	
1,1-Dichloroethane	3.7	1.0	0.20	1	01/29/18 16:06	
cis-1,2-Dichloroethene	460 D	5.0	1.5	5	01/30/18 21:03	
2-Butanone (MEK)	5.3	5.0	0.81	1	01/29/18 16:06	
Chloroform	1.2	1.0	0.25	1	01/29/18 16:06	
1,1,1-Trichloroethane	2.2	1.0	0.36	1	01/29/18 16:06	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	01/29/18 16:06	
Benzene	0.21 J	1.0	0.20	1	01/29/18 16:06	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	01/29/18 16:06	
Trichloroethene	280 D	5.0	1.1	5	01/30/18 21:03	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	01/29/18 16:06	
Bromodichloromethane	1.0 U	1.0	0.32	1	01/29/18 16:06	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	01/29/18 16:06	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	01/29/18 16:06	
Toluene	0.49 J	1.0	0.20	1	01/29/18 16:06	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	01/29/18 16:06	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	01/29/18 16:06	
Tetrachloroethene	1.0 U	1.0	0.30	1	01/29/18 16:06	
2-Hexanone	5.0 U	5.0	1.7	1	01/29/18 16:06	
Dibromochloromethane	1.0 U	1.0	0.31	1	01/29/18 16:06	
Chlorobenzene	1.0 U	1.0	0.29	1	01/29/18 16:06	
Ethylbenzene	1.0 U	1.0	0.20	1	01/29/18 16:06	
m,p-Xylenes	2.0 U	2.0	0.33	1	01/29/18 16:06	
o-Xylene	1.0 U	1.0	0.20	1	01/29/18 16:06	
Styrene	1.0 U	1.0	0.20	1	01/29/18 16:06	
Bromoform	1.0 U	1.0	0.42	1	01/29/18 16:06	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	01/29/18 16:06	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/24/18 10:35
Date Received: 01/24/18 16:30

Sample Name: BAT89-15 (1) 180124
Lab Code: R1800602-012

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	89	85 - 122	01/29/18 16:06	
Toluene-d8	91	87 - 121	01/29/18 16:06	
Dibromofluoromethane	90	89 - 119	01/29/18 16:06	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/24/18 11:10
Date Received: 01/24/18 16:30

Sample Name: BAT-DW-10 180124
Lab Code: R1800602-013

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	01/29/18 16:28	
Vinyl Chloride	260 D	250	80	250	01/30/18 21:47	
Chloroethane	1.0 U	1.0	0.24	1	01/29/18 16:28	
Bromomethane	1.0 U	1.0	0.29	1	01/29/18 16:28	
1,1-Dichloroethene	17	1.0	0.57	1	01/29/18 16:28	
Acetone	4.9 J	5.0	1.3	1	01/29/18 16:28	
Carbon Disulfide	14	1.0	0.22	1	01/29/18 16:28	
Methylene Chloride	16000 D	250	150	250	01/30/18 21:47	
trans-1,2-Dichloroethene	12	1.0	0.33	1	01/29/18 16:28	
1,1-Dichloroethane	15	1.0	0.20	1	01/29/18 16:28	
cis-1,2-Dichloroethene	1100 D	250	75	250	01/30/18 21:47	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	01/29/18 16:28	
Chloroform	5.4	1.0	0.25	1	01/29/18 16:28	
1,1,1-Trichloroethane	18	1.0	0.36	1	01/29/18 16:28	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	01/29/18 16:28	
Benzene	0.89 J	1.0	0.20	1	01/29/18 16:28	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	01/29/18 16:28	
Trichloroethene	36000 D	250	55	250	01/30/18 21:47	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	01/29/18 16:28	
Bromodichloromethane	1.0 U	1.0	0.32	1	01/29/18 16:28	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	01/29/18 16:28	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	01/29/18 16:28	
Toluene	8.0	1.0	0.20	1	01/29/18 16:28	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	01/29/18 16:28	
1,1,2-Trichloroethane	0.75 J	1.0	0.34	1	01/29/18 16:28	
Tetrachloroethene	8.0	1.0	0.30	1	01/29/18 16:28	
2-Hexanone	5.0 U	5.0	1.7	1	01/29/18 16:28	
Dibromochloromethane	1.0 U	1.0	0.31	1	01/29/18 16:28	
Chlorobenzene	1.0 U	1.0	0.29	1	01/29/18 16:28	
Ethylbenzene	1.4	1.0	0.20	1	01/29/18 16:28	
m,p-Xylenes	4.6	2.0	0.33	1	01/29/18 16:28	
o-Xylene	1.7	1.0	0.20	1	01/29/18 16:28	
Styrene	1.0 U	1.0	0.20	1	01/29/18 16:28	
Bromoform	1.0 U	1.0	0.42	1	01/29/18 16:28	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	01/29/18 16:28	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-DW-10 180124
Lab Code: R1800602-013

Service Request: R1800602
Date Collected: 01/24/18 11:10
Date Received: 01/24/18 16:30
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	89	85 - 122	01/29/18 16:28	
Toluene-d8	93	87 - 121	01/29/18 16:28	
Dibromofluoromethane	95	89 - 119	01/29/18 16:28	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/24/18 11:40
Date Received: 01/24/18 16:30

Sample Name: BAT87-08 (1) 180124
Lab Code: R1800602-014

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	5.0 U	5.0	1.1	5	01/29/18 18:19	
Vinyl Chloride	500	5.0	1.6	5	01/29/18 18:19	
Chloroethane	5.0 U	5.0	1.2	5	01/29/18 18:19	
Bromomethane	5.0 U	5.0	1.5	5	01/29/18 18:19	
1,1-Dichloroethene	4.2 J	5.0	2.9	5	01/29/18 18:19	
Acetone	9.3 J	25	6.2	5	01/29/18 18:19	
Carbon Disulfide	12	5.0	1.1	5	01/29/18 18:19	
Methylene Chloride	14	5.0	3.0	5	01/29/18 18:19	
trans-1,2-Dichloroethene	3.9 J	5.0	1.7	5	01/29/18 18:19	
1,1-Dichloroethane	6.4	5.0	1.0	5	01/29/18 18:19	
cis-1,2-Dichloroethene	780	5.0	1.5	5	01/29/18 18:19	
2-Butanone (MEK)	25 U	25	4.1	5	01/29/18 18:19	
Chloroform	5.0 U	5.0	1.3	5	01/29/18 18:19	
1,1,1-Trichloroethane	3.5 J	5.0	1.8	5	01/29/18 18:19	
Carbon Tetrachloride	5.0 U	5.0	2.3	5	01/29/18 18:19	
Benzene	5.0 U	5.0	1.0	5	01/29/18 18:19	
1,2-Dichloroethane	5.0 U	5.0	1.8	5	01/29/18 18:19	
Trichloroethene	39	5.0	1.1	5	01/29/18 18:19	
1,2-Dichloropropane	5.0 U	5.0	1.0	5	01/29/18 18:19	
Bromodichloromethane	5.0 U	5.0	1.6	5	01/29/18 18:19	
cis-1,3-Dichloropropene	5.0 U	5.0	1.2	5	01/29/18 18:19	
4-Methyl-2-pentanone (MIBK)	25 U	25	3.4	5	01/29/18 18:19	
Toluene	5.0 U	5.0	1.0	5	01/29/18 18:19	
trans-1,3-Dichloropropene	5.0 U	5.0	1.0	5	01/29/18 18:19	
1,1,2-Trichloroethane	5.0 U	5.0	1.7	5	01/29/18 18:19	
Tetrachloroethene	5.0 U	5.0	1.5	5	01/29/18 18:19	
2-Hexanone	25 U	25	8.3	5	01/29/18 18:19	
Dibromochloromethane	5.0 U	5.0	1.6	5	01/29/18 18:19	
Chlorobenzene	5.0 U	5.0	1.5	5	01/29/18 18:19	
Ethylbenzene	5.0 U	5.0	1.0	5	01/29/18 18:19	
m,p-Xylenes	10 U	10	1.7	5	01/29/18 18:19	
o-Xylene	5.0 U	5.0	1.0	5	01/29/18 18:19	
Styrene	5.0 U	5.0	1.0	5	01/29/18 18:19	
Bromoform	5.0 U	5.0	2.1	5	01/29/18 18:19	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1.3	5	01/29/18 18:19	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/24/18 11:40
Date Received: 01/24/18 16:30

Sample Name: BAT87-08 (1) 180124
Lab Code: R1800602-014

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85 - 122	01/29/18 18:19	
Toluene-d8	94	87 - 121	01/29/18 18:19	
Dibromofluoromethane	94	89 - 119	01/29/18 18:19	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/24/18 12:00
Date Received: 01/24/18 16:30

Sample Name: BAT-DW-9 180124
Lab Code: R1800602-015

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	01/31/18 21:41	
Vinyl Chloride	1.0 U	1.0	0.32	1	01/31/18 21:41	
Chloroethane	1.0 U	1.0	0.24	1	01/31/18 21:41	
Bromomethane	1.0 U	1.0	0.29	1	01/31/18 21:41	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	01/31/18 21:41	
Acetone	1.8 J	5.0	1.3	1	01/31/18 21:41	
Carbon Disulfide	1.0 U	1.0	0.22	1	01/31/18 21:41	
Methylene Chloride	1.0 U	1.0	0.60	1	01/31/18 21:41	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	01/31/18 21:41	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	01/31/18 21:41	
cis-1,2-Dichloroethene	4.9	1.0	0.30	1	01/31/18 21:41	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	01/31/18 21:41	
Chloroform	1.0 U	1.0	0.25	1	01/31/18 21:41	
1,1,1-Trichloroethane	1.0 U	1.0	0.36	1	01/31/18 21:41	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	01/31/18 21:41	
Benzene	1.0 U	1.0	0.20	1	01/31/18 21:41	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	01/31/18 21:41	
Trichloroethene	20	1.0	0.22	1	01/31/18 21:41	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	01/31/18 21:41	
Bromodichloromethane	1.0 U	1.0	0.32	1	01/31/18 21:41	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	01/31/18 21:41	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	01/31/18 21:41	
Toluene	1.0 U	1.0	0.20	1	01/31/18 21:41	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	01/31/18 21:41	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	01/31/18 21:41	
Tetrachloroethene	1.0 U	1.0	0.30	1	01/31/18 21:41	
2-Hexanone	5.0 U	5.0	1.7	1	01/31/18 21:41	
Dibromochloromethane	1.0 U	1.0	0.31	1	01/31/18 21:41	
Chlorobenzene	1.0 U	1.0	0.29	1	01/31/18 21:41	
Ethylbenzene	1.0 U	1.0	0.20	1	01/31/18 21:41	
m,p-Xylenes	2.0 U	2.0	0.33	1	01/31/18 21:41	
o-Xylene	1.0 U	1.0	0.20	1	01/31/18 21:41	
Styrene	1.0 U	1.0	0.20	1	01/31/18 21:41	
Bromoform	1.0 U	1.0	0.42	1	01/31/18 21:41	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	01/31/18 21:41	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/24/18 12:00
Date Received: 01/24/18 16:30

Sample Name: BAT-DW-9 180124
Lab Code: R1800602-015

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85 - 122	01/31/18 21:41	
Toluene-d8	94	87 - 121	01/31/18 21:41	
Dibromofluoromethane	92	89 - 119	01/31/18 21:41	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/24/18 13:15
Date Received: 01/24/18 16:30

Sample Name: BAT B-10A (1) 180124
Lab Code: R1800602-016

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	500 U	500	110	500	01/29/18 18:41	
Vinyl Chloride	510	500	160	500	01/29/18 18:41	
Chloroethane	500 U	500	120	500	01/29/18 18:41	
Bromomethane	500 U	500	150	500	01/29/18 18:41	
1,1-Dichloroethene	380 J	500	290	500	01/29/18 18:41	
Acetone	2500 U	2500	620	500	01/29/18 18:41	
Carbon Disulfide	500 U	500	110	500	01/29/18 18:41	
Methylene Chloride	3700	500	300	500	01/29/18 18:41	
trans-1,2-Dichloroethene	250 J	500	170	500	01/29/18 18:41	
1,1-Dichloroethane	430 J	500	100	500	01/29/18 18:41	
cis-1,2-Dichloroethene	70000	500	150	500	01/29/18 18:41	
2-Butanone (MEK)	2500 U	2500	410	500	01/29/18 18:41	
Chloroform	500 U	500	130	500	01/29/18 18:41	
1,1,1-Trichloroethane	1100	500	180	500	01/29/18 18:41	
Carbon Tetrachloride	500 U	500	230	500	01/29/18 18:41	
Benzene	500 U	500	100	500	01/29/18 18:41	
1,2-Dichloroethane	500 U	500	180	500	01/29/18 18:41	
Trichloroethene	28000	500	110	500	01/29/18 18:41	
1,2-Dichloropropane	500 U	500	100	500	01/29/18 18:41	
Bromodichloromethane	500 U	500	160	500	01/29/18 18:41	
cis-1,3-Dichloropropene	500 U	500	120	500	01/29/18 18:41	
4-Methyl-2-pentanone (MIBK)	2500 U	2500	340	500	01/29/18 18:41	
Toluene	500 U	500	100	500	01/29/18 18:41	
trans-1,3-Dichloropropene	500 U	500	100	500	01/29/18 18:41	
1,1,2-Trichloroethane	500 U	500	170	500	01/29/18 18:41	
Tetrachloroethene	500 U	500	150	500	01/29/18 18:41	
2-Hexanone	2500 U	2500	830	500	01/29/18 18:41	
Dibromochloromethane	500 U	500	160	500	01/29/18 18:41	
Chlorobenzene	500 U	500	150	500	01/29/18 18:41	
Ethylbenzene	500 U	500	100	500	01/29/18 18:41	
m,p-Xylenes	1000 U	1000	170	500	01/29/18 18:41	
o-Xylene	500 U	500	100	500	01/29/18 18:41	
Styrene	500 U	500	100	500	01/29/18 18:41	
Bromoform	500 U	500	210	500	01/29/18 18:41	
1,1,2,2-Tetrachloroethane	500 U	500	130	500	01/29/18 18:41	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT B-10A (1) 180124
Lab Code: R1800602-016

Service Request: R1800602
Date Collected: 01/24/18 13:15
Date Received: 01/24/18 16:30
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85 - 122	01/29/18 18:41	
Toluene-d8	92	87 - 121	01/29/18 18:41	
Dibromofluoromethane	93	89 - 119	01/29/18 18:41	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/24/18 13:50
Date Received: 01/24/18 16:30

Sample Name: BAT87-13 (1) 180124
Lab Code: R1800602-017

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	200 U	200	42	200	01/29/18 19:03	
Vinyl Chloride	1600	200	64	200	01/29/18 19:03	
Chloroethane	200 U	200	48	200	01/29/18 19:03	
Bromomethane	200 U	200	58	200	01/29/18 19:03	
1,1-Dichloroethene	210	200	120	200	01/29/18 19:03	
Acetone	1000 U	1000	250	200	01/29/18 19:03	
Carbon Disulfide	200 U	200	44	200	01/29/18 19:03	
Methylene Chloride	17000	200	120	200	01/29/18 19:03	
trans-1,2-Dichloroethene	200 U	200	66	200	01/29/18 19:03	
1,1-Dichloroethane	280	200	40	200	01/29/18 19:03	
cis-1,2-Dichloroethene	36000	200	60	200	01/29/18 19:03	
2-Butanone (MEK)	1000 U	1000	170	200	01/29/18 19:03	
Chloroform	200 U	200	50	200	01/29/18 19:03	
1,1,1-Trichloroethane	3300	200	72	200	01/29/18 19:03	
Carbon Tetrachloride	200 U	200	90	200	01/29/18 19:03	
Benzene	200 U	200	40	200	01/29/18 19:03	
1,2-Dichloroethane	200 U	200	72	200	01/29/18 19:03	
Trichloroethene	120000 D	2000	440	2000	01/30/18 22:09	
1,2-Dichloropropane	200 U	200	40	200	01/29/18 19:03	
Bromodichloromethane	200 U	200	64	200	01/29/18 19:03	
cis-1,3-Dichloropropene	200 U	200	48	200	01/29/18 19:03	
4-Methyl-2-pentanone (MIBK)	1000 U	1000	140	200	01/29/18 19:03	
Toluene	160 J	200	40	200	01/29/18 19:03	
trans-1,3-Dichloropropene	200 U	200	40	200	01/29/18 19:03	
1,1,2-Trichloroethane	200 U	200	68	200	01/29/18 19:03	
Tetrachloroethene	310	200	60	200	01/29/18 19:03	
2-Hexanone	1000 U	1000	340	200	01/29/18 19:03	
Dibromochloromethane	200 U	200	62	200	01/29/18 19:03	
Chlorobenzene	200 U	200	58	200	01/29/18 19:03	
Ethylbenzene	200 U	200	40	200	01/29/18 19:03	
m,p-Xylenes	70 J	400	66	200	01/29/18 19:03	
o-Xylene	200 U	200	40	200	01/29/18 19:03	
Styrene	200 U	200	40	200	01/29/18 19:03	
Bromoform	200 U	200	84	200	01/29/18 19:03	
1,1,2,2-Tetrachloroethane	200 U	200	50	200	01/29/18 19:03	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/24/18 13:50
Date Received: 01/24/18 16:30

Sample Name: BAT87-13 (1) 180124
Lab Code: R1800602-017

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	01/29/18 19:03	
Toluene-d8	95	87 - 121	01/29/18 19:03	
Dibromofluoromethane	95	89 - 119	01/29/18 19:03	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/24/18 14:25
Date Received: 01/24/18 16:30

Sample Name: BAT87-17 (1) 180124
Lab Code: R1800602-018

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	2.0 U	2.0	0.42	2	01/30/18 20:19	
Vinyl Chloride	320	2.0	0.64	2	01/30/18 20:19	
Chloroethane	2.0 U	2.0	0.48	2	01/30/18 20:19	
Bromomethane	2.0 U	2.0	0.58	2	01/30/18 20:19	
1,1-Dichloroethene	1.4 J	2.0	1.2	2	01/30/18 20:19	
Acetone	10 U	10	2.5	2	01/30/18 20:19	
Carbon Disulfide	1.4 J	2.0	0.44	2	01/30/18 20:19	
Methylene Chloride	2.0 U	2.0	1.2	2	01/30/18 20:19	
trans-1,2-Dichloroethene	2.3	2.0	0.66	2	01/30/18 20:19	
1,1-Dichloroethane	23	2.0	0.40	2	01/30/18 20:19	
cis-1,2-Dichloroethene	110	2.0	0.60	2	01/30/18 20:19	
2-Butanone (MEK)	10 U	10	1.7	2	01/30/18 20:19	
Chloroform	2.0 U	2.0	0.50	2	01/30/18 20:19	
1,1,1-Trichloroethane	100	2.0	0.72	2	01/30/18 20:19	
Carbon Tetrachloride	2.0 U	2.0	0.90	2	01/30/18 20:19	
Benzene	2.0 U	2.0	0.40	2	01/30/18 20:19	
1,2-Dichloroethane	2.0 U	2.0	0.72	2	01/30/18 20:19	
Trichloroethene	2.7	2.0	0.44	2	01/30/18 20:19	
1,2-Dichloropropane	2.0 U	2.0	0.40	2	01/30/18 20:19	
Bromodichloromethane	2.0 U	2.0	0.64	2	01/30/18 20:19	
cis-1,3-Dichloropropene	2.0 U	2.0	0.48	2	01/30/18 20:19	
4-Methyl-2-pentanone (MIBK)	10 U	10	1.4	2	01/30/18 20:19	
Toluene	2.0 U	2.0	0.40	2	01/30/18 20:19	
trans-1,3-Dichloropropene	2.0 U	2.0	0.40	2	01/30/18 20:19	
1,1,2-Trichloroethane	2.0 U	2.0	0.68	2	01/30/18 20:19	
Tetrachloroethene	2.0 U	2.0	0.60	2	01/30/18 20:19	
2-Hexanone	10 U	10	3.4	2	01/30/18 20:19	
Dibromochloromethane	2.0 U	2.0	0.62	2	01/30/18 20:19	
Chlorobenzene	2.0 U	2.0	0.58	2	01/30/18 20:19	
Ethylbenzene	2.0 U	2.0	0.40	2	01/30/18 20:19	
m,p-Xylenes	4.0 U	4.0	0.66	2	01/30/18 20:19	
o-Xylene	2.0 U	2.0	0.40	2	01/30/18 20:19	
Styrene	2.0 U	2.0	0.40	2	01/30/18 20:19	
Bromoform	2.0 U	2.0	0.84	2	01/30/18 20:19	
1,1,2,2-Tetrachloroethane	2.0 U	2.0	0.50	2	01/30/18 20:19	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/24/18 14:25
Date Received: 01/24/18 16:30

Sample Name: BAT87-17 (1) 180124
Lab Code: R1800602-018

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85 - 122	01/30/18 20:19	
Toluene-d8	94	87 - 121	01/30/18 20:19	
Dibromofluoromethane	94	89 - 119	01/30/18 20:19	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/23/18 10:15
Date Received: 01/24/18 16:30

Sample Name: BAT87-12 (1) 180124
Lab Code: R1800602-019

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	10 U	10	2.1	10	01/30/18 21:25	
Vinyl Chloride	1400	10	3.2	10	01/30/18 21:25	
Chloroethane	10 U	10	2.4	10	01/30/18 21:25	
Bromomethane	10 U	10	2.9	10	01/30/18 21:25	
1,1-Dichloroethene	10 U	10	5.7	10	01/30/18 21:25	
Acetone	50 U	50	13	10	01/30/18 21:25	
Carbon Disulfide	31	10	2.2	10	01/30/18 21:25	
Methylene Chloride	84	10	6.0	10	01/30/18 21:25	
trans-1,2-Dichloroethene	7.3 J	10	3.3	10	01/30/18 21:25	
1,1-Dichloroethane	24	10	2.0	10	01/30/18 21:25	
cis-1,2-Dichloroethene	970	10	3.0	10	01/30/18 21:25	
2-Butanone (MEK)	50 U	50	8.1	10	01/30/18 21:25	
Chloroform	10 U	10	2.5	10	01/30/18 21:25	
1,1,1-Trichloroethane	29	10	3.6	10	01/30/18 21:25	
Carbon Tetrachloride	10 U	10	4.5	10	01/30/18 21:25	
Benzene	10 U	10	2.0	10	01/30/18 21:25	
1,2-Dichloroethane	10 U	10	3.6	10	01/30/18 21:25	
Trichloroethene	17	10	2.2	10	01/30/18 21:25	
1,2-Dichloropropane	10 U	10	2.0	10	01/30/18 21:25	
Bromodichloromethane	10 U	10	3.2	10	01/30/18 21:25	
cis-1,3-Dichloropropene	10 U	10	2.4	10	01/30/18 21:25	
4-Methyl-2-pentanone (MIBK)	50 U	50	6.7	10	01/30/18 21:25	
Toluene	10 U	10	2.0	10	01/30/18 21:25	
trans-1,3-Dichloropropene	10 U	10	2.0	10	01/30/18 21:25	
1,1,2-Trichloroethane	10 U	10	3.4	10	01/30/18 21:25	
Tetrachloroethene	10 U	10	3.0	10	01/30/18 21:25	
2-Hexanone	50 U	50	17	10	01/30/18 21:25	
Dibromochloromethane	10 U	10	3.1	10	01/30/18 21:25	
Chlorobenzene	10 U	10	2.9	10	01/30/18 21:25	
Ethylbenzene	10 U	10	2.0	10	01/30/18 21:25	
m,p-Xylenes	20 U	20	3.3	10	01/30/18 21:25	
o-Xylene	10 U	10	2.0	10	01/30/18 21:25	
Styrene	10 U	10	2.0	10	01/30/18 21:25	
Bromoform	10 U	10	4.2	10	01/30/18 21:25	
1,1,2,2-Tetrachloroethane	10 U	10	2.5	10	01/30/18 21:25	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/23/18 10:15
Date Received: 01/24/18 16:30

Sample Name: BAT87-12 (1) 180124
Lab Code: R1800602-019

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	01/30/18 21:25	
Toluene-d8	96	87 - 121	01/30/18 21:25	
Dibromofluoromethane	96	89 - 119	01/30/18 21:25	



Volatile Organic Compounds by GC

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

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/23/18 09:45
Date Received: 01/23/18 17:20

Sample Name: BAT87-01 (1) 180123
Lab Code: R1800602-001

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	1.1	1.0	1	01/30/18 12:58	
Ethene	24	1.0	1	01/30/18 12:58	
Methane	27	1.0	1	01/30/18 12:58	

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dba ALS Environmental

Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/23/18 11:10
Date Received: 01/23/18 17:20

Sample Name: BAT87-20 (1) 180123
Lab Code: R1800602-003

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	2.4	1.0	1	01/30/18 13:08	
Ethene	81	1.0	1	01/30/18 13:08	
Methane	48	1.0	1	01/30/18 13:08	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT87-22 (1) 180123
Lab Code: R1800602-004

Service Request: R1800602
Date Collected: 1/23/18 1150
Date Received: 1/23/18
Units: µg/L
Basis: NA

Dissolved Gases by GC/FID

Analytical Method: RSK 175

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Ethane	5.7		1.0	1	NA	1/30/18 13:17		578642	
Ethene	49		1.0	1	NA	1/30/18 13:17		578642	
Methane	190		5.0	5	NA	1/30/18 13:45		578642	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT89-12 (1) 180123
Lab Code: R1800602-005

Service Request: R1800602
Date Collected: 1/23/18 1300
Date Received: 1/23/18
Units: µg/L
Basis: NA

Dissolved Gases by GC/FID

Analytical Method: RSK 175

Analyte Name	Result	Q	MRL	Dilution Factor	Date Extracted	Date Analyzed	Extraction Lot	Analysis Lot	Note
Ethane	1.9		1.0	1	NA	1/30/18 13:57		578642	
Ethene	140		2.5	2.5	NA	1/30/18 14:08		578642	
Methane	30		1.0	1	NA	1/30/18 13:57		578642	

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dba ALS Environmental

Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/23/18 13:50
Date Received: 01/23/18 17:20

Sample Name: BAT89-10 (1) 180123
Lab Code: R1800602-006

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	2.1	1.0	1	01/30/18 14:18	
Ethene	25	1.0	1	01/30/18 14:18	
Methane	33	1.0	1	01/30/18 14:18	

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dba ALS Environmental

Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/23/18 14:20
Date Received: 01/23/18 17:20

Sample Name: BAT-DW-11 180123
Lab Code: R1800602-007

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	1.0 U	1.0	1	01/30/18 14:29	
Ethene	1.1	1.0	1	01/30/18 14:29	
Methane	4.2	1.0	1	01/30/18 14:29	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/23/18 15:00
Date Received: 01/23/18 17:20

Sample Name: BAT87-B-14 (1) 180123
Lab Code: R1800602-008

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	1.1	1.0	1	01/30/18 14:39	
Ethene	12	1.0	1	01/30/18 14:39	
Methane	53	1.0	1	01/30/18 14:39	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/23/18 15:25
Date Received: 01/23/18 17:20

Sample Name: BAT87-09 (1) 180123
Lab Code: R1800602-009

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	1.6	1.0	1	01/30/18 15:00	
Ethene	11	1.0	1	01/30/18 15:00	
Methane	64	1.0	1	01/30/18 15:00	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/24/18 09:20
Date Received: 01/24/18 16:30

Sample Name: BAT87-02 (1) 180124
Lab Code: R1800602-010

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	1.8	1.0	1	01/30/18 15:11	
Ethene	20	1.0	1	01/30/18 15:11	
Methane	63	1.0	1	01/30/18 15:11	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/24/18 09:50
Date Received: 01/24/18 16:30

Sample Name: BAT-DW-12 180124
Lab Code: R1800602-011

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	1.0 U	1.0	1	01/30/18 15:22	
Ethene	1.0 U	1.0	1	01/30/18 15:22	
Methane	1.0 U	1.0	1	01/30/18 15:22	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT89-15 (1) 180124
Lab Code: R1800602-012

Service Request: R1800602
Date Collected: 01/24/18 10:35
Date Received: 01/24/18 16:30
Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	3.6	1.0	1	01/30/18 15:32	
Ethene	69	1.0	1	01/30/18 15:32	
Methane	30	1.0	1	01/30/18 15:32	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/24/18 11:10
Date Received: 01/24/18 16:30

Sample Name: BAT-DW-10 180124
Lab Code: R1800602-013

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	7.2	1.0	1	01/30/18 15:44	
Ethene	24	1.0	1	01/30/18 15:44	
Methane	76	1.0	1	01/30/18 15:44	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/24/18 11:40
Date Received: 01/24/18 16:30

Sample Name: BAT87-08 (1) 180124
Lab Code: R1800602-014

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	1.0 U	1.0	1	01/30/18 16:08	
Ethene	69	1.0	1	01/30/18 16:08	
Methane	15	1.0	1	01/30/18 16:08	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/24/18 12:00
Date Received: 01/24/18 16:30

Sample Name: BAT-DW-9 180124
Lab Code: R1800602-015

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	1.0 U	1.0	1	02/02/18 13:46	
Ethene	1.0 U	1.0	1	02/02/18 13:46	
Methane	1.1 U	1.1	1	02/02/18 13:46	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/24/18 13:15
Date Received: 01/24/18 16:30

Sample Name: BAT B-10A (1) 180124
Lab Code: R1800602-016

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	2.2	1.0	1	02/02/18 13:59	
Ethene	19	1.0	1	02/02/18 13:59	
Methane	67	1.1	1	02/02/18 13:59	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT87-13 (1) 180124
Lab Code: R1800602-017

Service Request: R1800602
Date Collected: 01/24/18 13:50
Date Received: 01/24/18 16:30
Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	6.3	1.0	1	02/02/18 14:09	
Ethene	110	2.5	2.5	02/02/18 14:40	
Methane	130	2.6	2.5	02/02/18 14:40	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/24/18 14:25
Date Received: 01/24/18 16:30

Sample Name: BAT87-17 (1) 180124
Lab Code: R1800602-018

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	1.2	1.0	1	02/02/18 14:19	
Ethene	11	1.0	1	02/02/18 14:19	
Methane	66	1.1	1	02/02/18 14:19	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/23/18 10:15
Date Received: 01/24/18 16:30

Sample Name: BAT87-12 (1) 180124
Lab Code: R1800602-019

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	3.6	1.0	1	02/02/18 14:30	
Ethene	310	10	10	02/02/18 14:51	
Methane	47	1.1	1	02/02/18 14:30	



Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/23/18 09:45
Date Received: 01/23/18 17:20

Sample Name: BAT87-01 (1) 180123
Lab Code: R1800602-001

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	1.0 U	1.0	2	01/31/18 18:50	
Acetic Acid	210	2.0	2	01/31/18 18:50	
Butanoic Acid (Butyric Acid)	4.3	4.0	2	01/31/18 18:50	
Lactic Acid	2.0 U	2.0	2	01/31/18 18:50	
Propionic Acid	16	2.0	2	01/31/18 18:50	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/23/18 10:15
Date Received: 01/23/18 17:20

Sample Name: BAT87-12 (1) 180123
Lab Code: R1800602-002

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	01/30/18 17:43	
Acetic Acid	13	1.0	1	01/30/18 17:43	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	01/30/18 17:43	
Lactic Acid	1.0 U	1.0	1	01/30/18 17:43	
Propionic Acid	1.0 U	1.0	1	01/30/18 17:43	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/23/18 11:10
Date Received: 01/23/18 17:20

Sample Name: BAT87-20 (1) 180123
Lab Code: R1800602-003

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	01/30/18 17:48	
Acetic Acid	140	1.0	1	01/30/18 17:48	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	01/30/18 17:48	
Lactic Acid	1.0 U	1.0	1	01/30/18 17:48	
Propionic Acid	1.0 U	1.0	1	01/30/18 17:48	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/23/18 11:50
Date Received: 01/23/18 17:20

Sample Name: BAT87-22 (1) 180123
Lab Code: R1800602-004

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	01/30/18 19:13	
Acetic Acid	1.0 U	1.0	1	01/30/18 19:13	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	01/30/18 19:13	
Lactic Acid	1.0 U	1.0	1	01/30/18 19:13	
Propionic Acid	1.0 U	1.0	1	01/30/18 19:13	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/23/18 13:00
Date Received: 01/23/18 17:20

Sample Name: BAT89-12 (1) 180123
Lab Code: R1800602-005

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	01/30/18 20:42	
Acetic Acid	51	1.0	1	01/30/18 20:42	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	01/30/18 20:42	
Lactic Acid	1.0 U	1.0	1	01/30/18 20:42	
Propionic Acid	1.0 U	1.0	1	01/30/18 20:42	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/23/18 13:50
Date Received: 01/23/18 17:20

Sample Name: BAT89-10 (1) 180123
Lab Code: R1800602-006

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	01/30/18 21:27	
Acetic Acid	190	1.0	1	01/30/18 21:27	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	01/30/18 21:27	
Lactic Acid	1.0 U	1.0	1	01/30/18 21:27	
Propionic Acid	5.1	1.0	1	01/30/18 21:27	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/23/18 14:20
Date Received: 01/23/18 17:20

Sample Name: BAT-DW-11 180123
Lab Code: R1800602-007

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	01/30/18 22:12	
Acetic Acid	1.4	1.0	1	01/30/18 22:12	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	01/30/18 22:12	
Lactic Acid	1.0 U	1.0	1	01/30/18 22:12	
Propionic Acid	1.0 U	1.0	1	01/30/18 22:12	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/23/18 15:00
Date Received: 01/23/18 17:20

Sample Name: BAT87-B-14 (1) 180123
Lab Code: R1800602-008

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	01/30/18 22:57	
Acetic Acid	1.0 U	1.0	1	01/30/18 22:57	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	01/30/18 22:57	
Lactic Acid	1.0 U	1.0	1	01/30/18 22:57	
Propionic Acid	1.0 U	1.0	1	01/30/18 22:57	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/23/18 15:25
Date Received: 01/23/18 17:20

Sample Name: BAT87-09 (1) 180123
Lab Code: R1800602-009

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	01/30/18 23:42	
Acetic Acid	1.0 U	1.0	1	01/30/18 23:42	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	01/30/18 23:42	
Lactic Acid	1.0 U	1.0	1	01/30/18 23:42	
Propionic Acid	1.0 U	1.0	1	01/30/18 23:42	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/24/18 09:20
Date Received: 01/24/18 16:30

Sample Name: BAT87-02 (1) 180124
Lab Code: R1800602-010

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	1.3 U	1.3	2.5	01/31/18 19:30	
Acetic Acid	350	2.5	2.5	01/31/18 19:30	
Butanoic Acid (Butyric Acid)	43	5.0	2.5	01/31/18 19:30	
Lactic Acid	2.5 U	2.5	2.5	01/31/18 19:30	
Propionic Acid	71	2.5	2.5	01/31/18 19:30	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/24/18 09:50
Date Received: 01/24/18 16:30

Sample Name: BAT-DW-12 180124
Lab Code: R1800602-011

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	01/31/18 01:12	
Acetic Acid	1.0 U	1.0	1	01/31/18 01:12	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	01/31/18 01:12	
Lactic Acid	1.0 U	1.0	1	01/31/18 01:12	
Propionic Acid	1.0 U	1.0	1	01/31/18 01:12	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/24/18 10:35
Date Received: 01/24/18 16:30

Sample Name: BAT89-15 (1) 180124
Lab Code: R1800602-012

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	1.0 U	1.0	2	01/31/18 20:16	
Acetic Acid	280	2.0	2	01/31/18 20:16	
Butanoic Acid (Butyric Acid)	4.0 U	4.0	2	01/31/18 20:16	
Lactic Acid	2.0 U	2.0	2	01/31/18 20:16	
Propionic Acid	7.7	2.0	2	01/31/18 20:16	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/24/18 11:10
Date Received: 01/24/18 16:30

Sample Name: BAT-DW-10 180124
Lab Code: R1800602-013

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	01/31/18 14:00	
Acetic Acid	1.0 U	1.0	1	01/31/18 14:00	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	01/31/18 14:00	
Lactic Acid	1.0 U	1.0	1	01/31/18 14:00	
Propionic Acid	1.0 U	1.0	1	01/31/18 14:00	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/24/18 11:40
Date Received: 01/24/18 16:30

Sample Name: BAT87-08 (1) 180124
Lab Code: R1800602-014

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	01/31/18 02:42	
Acetic Acid	96	1.0	1	01/31/18 02:42	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	01/31/18 02:42	
Lactic Acid	1.0 U	1.0	1	01/31/18 02:42	
Propionic Acid	7.0	1.0	1	01/31/18 02:42	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/24/18 12:00
Date Received: 01/24/18 16:30

Sample Name: BAT-DW-9 180124
Lab Code: R1800602-015

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	01/31/18 03:25	
Acetic Acid	1.0 U	1.0	1	01/31/18 03:25	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	01/31/18 03:25	
Lactic Acid	1.0 U	1.0	1	01/31/18 03:25	
Propionic Acid	1.0 U	1.0	1	01/31/18 03:25	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/24/18 13:15
Date Received: 01/24/18 16:30

Sample Name: BAT B-10A (1) 180124
Lab Code: R1800602-016

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	01/31/18 14:45	
Acetic Acid	82	1.0	1	01/31/18 14:45	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	01/31/18 14:45	
Lactic Acid	1.0 U	1.0	1	01/31/18 14:45	
Propionic Acid	15	1.0	1	01/31/18 14:45	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/24/18 13:50
Date Received: 01/24/18 16:30

Sample Name: BAT87-13 (1) 180124
Lab Code: R1800602-017

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	2.5 U	2.5	5	01/31/18 22:19	
Acetic Acid	550	5.0	5	01/31/18 22:19	
Butanoic Acid (Butyric Acid)	12	10	5	01/31/18 22:19	
Lactic Acid	20	5.0	5	01/31/18 22:19	
Propionic Acid	78	5.0	5	01/31/18 22:19	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/24/18 14:25
Date Received: 01/24/18 16:30

Sample Name: BAT87-17 (1) 180124
Lab Code: R1800602-018

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	01/31/18 04:56	
Acetic Acid	1.0 U	1.0	1	01/31/18 04:56	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	01/31/18 04:56	
Lactic Acid	1.0 U	1.0	1	01/31/18 04:56	
Propionic Acid	1.0 U	1.0	1	01/31/18 04:56	



General Chemistry

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

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT87-01 (1) 180123
Lab Code: R1800602-001

Service Request: R1800602
Date Collected: 01/23/18 09:45
Date Received: 01/23/18 17:20

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	433	mg/L	2.0	1	01/29/18 12:59	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	433	mg/L	2.0	1	01/29/18 12:59	
Carbon Dioxide	SM 4500-CO2 D	554	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	111	mg/L	10	10	02/01/18 18:59	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	01/29/18 12:59	
Chloride	9056A	406	mg/L	80	400	01/25/18 01:31	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.40	mg/L	0.10	1	01/23/18 18:15	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	01/25/18 01:06	
Sulfate	9056A	205	mg/L	8.0	40	01/25/18 01:18	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT87-12 (1) 180123
Lab Code: R1800602-002

Service Request: R1800602
Date Collected: 01/23/18 10:15
Date Received: 01/23/18 17:20
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	466	mg/L	2.0	1	01/29/18 13:06	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	466	mg/L	2.0	1	01/29/18 13:06	
Carbon Dioxide	SM 4500-CO2 D	479	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	10.1	mg/L	1.0	1	01/31/18 21:15	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	01/29/18 13:06	
Chloride	9056A	329	mg/L	8.0	40	01/25/18 01:55	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.10 U	mg/L	0.10	1	01/23/18 18:15	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	01/25/18 01:43	
Sulfate	9056A	550	mg/L	80	400	01/25/18 02:07	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT87-20 (1) 180123
Lab Code: R1800602-003

Service Request: R1800602
Date Collected: 01/23/18 11:10
Date Received: 01/23/18 17:20
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	375	mg/L	2.0	1	01/29/18 13:12	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	375	mg/L	2.0	1	01/29/18 13:12	
Carbon Dioxide	SM 4500-CO2 D	394	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	70.1	mg/L	4.0	4	02/01/18 19:20	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	01/29/18 13:12	
Chloride	9056A	217	mg/L	40	200	01/25/18 03:46	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.14	mg/L	0.10	1	01/23/18 18:15	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	01/25/18 02:44	
Sulfate	9056A	779	mg/L	40	200	01/25/18 03:46	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT87-22 (1) 180123
Lab Code: R1800602-004

Service Request: R1800602
Date Collected: 01/23/18 11:50
Date Received: 01/23/18 17:20
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	378	mg/L	2.0	1	01/29/18 13:19	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	378	mg/L	2.0	1	01/29/18 13:19	
Carbon Dioxide	SM 4500-CO2 D	391	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	4.9	mg/L	1.0	1	01/31/18 21:56	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	01/29/18 13:19	
Chloride	9056A	119	mg/L	8.0	40	02/01/18 05:50	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.10 U	mg/L	0.10	1	01/23/18 18:15	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	01/25/18 00:17	
Sulfate	9056A	1230	mg/L	80	400	01/25/18 00:29	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT89-12 (1) 180123
Lab Code: R1800602-005

Service Request: R1800602
Date Collected: 01/23/18 13:00
Date Received: 01/23/18 17:20

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	466	mg/L	2.0	1	01/29/18 13:25	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	466	mg/L	2.0	1	01/29/18 13:25	
Carbon Dioxide	SM 4500-CO2 D	468	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	35.6	mg/L	2.0	2	02/01/18 19:41	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	01/29/18 13:25	
Chloride	9056A	319	mg/L	40	200	01/25/18 04:47	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.17	mg/L	0.10	1	01/23/18 18:15	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	01/25/18 04:23	
Sulfate	9056A	734	mg/L	40	200	01/25/18 04:47	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT89-10 (1) 180123
Lab Code: R1800602-006

Service Request: R1800602
Date Collected: 01/23/18 13:50
Date Received: 01/23/18 17:20

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	433	mg/L	2.0	1	01/29/18 13:43	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	433	mg/L	2.0	1	01/29/18 13:43	
Carbon Dioxide	SM 4500-CO2 D	504	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	100	mg/L	100	100	02/01/18 20:02	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	01/29/18 13:43	
Chloride	9056A	425	mg/L	40	200	01/25/18 05:24	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.11	mg/L	0.10	1	01/23/18 18:15	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	01/25/18 04:59	
Sulfate	9056A	897	mg/L	40	200	01/25/18 05:24	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-DW-11 180123
Lab Code: R1800602-007

Service Request: R1800602
Date Collected: 01/23/18 14:20
Date Received: 01/23/18 17:20
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	194	mg/L	2.0	1	01/29/18 22:13	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	194	mg/L	2.0	1	01/29/18 22:13	
Carbon Dioxide	SM 4500-CO2 D	177	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	9.2	mg/L	1.0	1	01/31/18 22:59	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	01/29/18 22:13	
Chloride	9056A	481	mg/L	10	50	01/25/18 06:13	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.76	mg/L	0.10	1	01/23/18 18:15	H
Nitrate as Nitrogen	9056A	2.4	mg/L	1.0	10	01/25/18 06:01	
Sulfate	9056A	409	mg/L	10	50	01/25/18 06:13	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT87-B-14 (1) 180123
Lab Code: R1800602-008

Service Request: R1800602
Date Collected: 01/23/18 15:00
Date Received: 01/23/18 17:20
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	290	mg/L	2.0	1	01/29/18 22:25	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	290	mg/L	2.0	1	01/29/18 22:25	
Carbon Dioxide	SM 4500-CO2 D	286	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	3.8	mg/L	1.0	1	02/01/18 00:02	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	01/29/18 22:25	
Chloride	9056A	117	mg/L	8.0	40	01/25/18 07:02	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.10 U	mg/L	0.10	1	01/23/18 18:15	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	01/25/18 06:50	
Sulfate	9056A	972	mg/L	80	400	01/25/18 07:15	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT87-09 (1) 180123
Lab Code: R1800602-009

Service Request: R1800602
Date Collected: 01/23/18 15:25
Date Received: 01/23/18 17:20

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	287	mg/L	2.0	1	01/29/18 22:36	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	287	mg/L	2.0	1	01/29/18 22:36	
Carbon Dioxide	SM 4500-CO2 D	281	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	3.4	mg/L	1.0	1	02/01/18 00:22	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	01/29/18 22:36	
Chloride	9056A	116	mg/L	8.0	40	01/25/18 07:39	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.10 U	mg/L	0.10	1	01/23/18 18:15	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	01/25/18 07:27	
Sulfate	9056A	991	mg/L	80	400	01/25/18 07:51	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT87-02 (1) 180124
Lab Code: R1800602-010

Service Request: R1800602
Date Collected: 01/24/18 09:20
Date Received: 01/24/18 16:30
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	562	mg/L	2.0	1	01/29/18 20:28	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	562	mg/L	2.0	1	01/29/18 20:21	
Carbon Dioxide	SM 4500-CO2 D	764	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	241	mg/L	10	10	02/01/18 00:43	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	01/29/18 20:21	
Chloride	9056A	477	mg/L	20	100	01/27/18 08:19	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	54.6	mg/L	4.0	40	01/24/18 19:35	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	01/26/18 10:06	*
Sulfate	9056A	63.1	mg/L	2.0	10	01/26/18 10:06	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-DW-12 180124
Lab Code: R1800602-011

Service Request: R1800602
Date Collected: 01/24/18 09:50
Date Received: 01/24/18 16:30
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	66.4	mg/L	2.0	1	01/29/18 20:34	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	66.4	mg/L	2.0	1	01/29/18 20:34	
Carbon Dioxide	SM 4500-CO2 D	62.6	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	2.2	mg/L	1.0	1	02/01/18 01:04	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	01/29/18 20:34	
Chloride	9056A	1050	mg/L	40	200	02/01/18 06:03	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.10 U	mg/L	0.10	1	01/25/18 18:25	H
Nitrate as Nitrogen	9056A	1.5	mg/L	1.0	10	01/26/18 10:18	*
Sulfate	9056A	138	mg/L	8.0	40	01/27/18 08:30	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT89-15 (1) 180124
Lab Code: R1800602-012

Service Request: R1800602
Date Collected: 01/24/18 10:35
Date Received: 01/24/18 16:30
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	530	mg/L	2.0	1	01/29/18 20:50	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	530	mg/L	2.0	1	01/29/18 20:50	
Carbon Dioxide	SM 4500-CO2 D	660	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	141	mg/L	40	40	02/01/18 20:22	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	01/29/18 20:50	
Chloride	9056A	76.0	mg/L	2.0	10	01/26/18 10:30	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	4.3	mg/L	1.0	10	01/24/18 19:35	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	01/26/18 10:30	
Sulfate	9056A	40.8	mg/L	2.0	10	01/26/18 10:30	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-DW-10 180124
Lab Code: R1800602-013

Service Request: R1800602
Date Collected: 01/24/18 11:10
Date Received: 01/24/18 16:30
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	184	mg/L	2.0	1	01/29/18 20:56	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	184	mg/L	2.0	1	01/29/18 20:56	
Carbon Dioxide	SM 4500-CO2 D	179	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	690	mg/L	100	100	02/01/18 02:07	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	01/29/18 20:56	
Chloride	9056A	35.3	mg/L	2.0	10	01/26/18 11:04	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	4.0 U	mg/L	4.0	40	01/24/18 19:35	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	01/26/18 11:04	
Sulfate	9056A	104	mg/L	8.0	40	02/01/18 04:44	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT87-08 (1) 180124
Lab Code: R1800602-014

Service Request: R1800602
Date Collected: 01/24/18 11:40
Date Received: 01/24/18 16:30

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	431	mg/L	2.0	1	01/29/18 21:03	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	431	mg/L	2.0	1	01/29/18 21:03	
Carbon Dioxide	SM 4500-CO2 D	433	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	50.5	mg/L	4.0	4	02/01/18 20:43	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	01/29/18 21:03	
Chloride	9056A	13.5	mg/L	2.0	10	01/26/18 11:16	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.10 U	mg/L	0.10	1	01/24/18 19:35	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	01/26/18 11:16	
Sulfate	9056A	122	mg/L	8.0	40	02/01/18 04:57	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-DW-9 180124
Lab Code: R1800602-015

Service Request: R1800602
Date Collected: 01/24/18 12:00
Date Received: 01/24/18 16:30
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	160	mg/L	2.0	1	01/29/18 21:09	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	160	mg/L	2.0	1	01/29/18 21:09	
Carbon Dioxide	SM 4500-CO2 D	149	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	6.0	mg/L	1.0	1	02/01/18 02:49	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	01/29/18 21:09	
Chloride	9056A	5.3	mg/L	2.0	10	01/26/18 11:27	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.10 U	mg/L	0.10	1	01/24/18 19:35	H
Nitrate as Nitrogen	9056A	5.3	mg/L	1.0	10	01/26/18 11:27	
Sulfate	9056A	96.2	mg/L	2.0	10	01/26/18 11:27	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT B-10A (1) 180124
Lab Code: R1800602-016

Service Request: R1800602
Date Collected: 01/24/18 13:15
Date Received: 01/24/18 16:30
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	549	mg/L	2.0	1	01/29/18 21:15	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	549	mg/L	2.0	1	01/29/18 21:15	
Carbon Dioxide	SM 4500-CO2 D	508	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	56.9	mg/L	4.0	4	02/01/18 21:04	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	01/29/18 21:15	
Chloride	9056A	109	mg/L	8.0	40	01/27/18 09:17	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.10 U	mg/L	0.10	1	01/24/18 19:35	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	01/26/18 11:39	
Sulfate	9056A	123	mg/L	8.0	40	01/27/18 09:17	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT87-13 (1) 180124
Lab Code: R1800602-017

Service Request: R1800602
Date Collected: 01/24/18 13:50
Date Received: 01/24/18 16:30
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	922	mg/L	2.0	1	01/29/18 21:22	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	922	mg/L	2.0	1	01/29/18 21:22	
Carbon Dioxide	SM 4500-CO2 D	1220	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	10.7	mg/L	1.0	1	02/01/18 21:25	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	01/29/18 21:22	
Chloride	9056A	287	mg/L	8.0	40	01/27/18 09:28	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	3.1	mg/L	1.0	10	01/24/18 19:35	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	01/26/18 11:51	
Sulfate	9056A	451	mg/L	20	100	02/01/18 06:42	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT87-17 (1) 180124
Lab Code: R1800602-018

Service Request: R1800602
Date Collected: 01/24/18 14:25
Date Received: 01/24/18 16:30

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	291	mg/L	2.0	1	01/29/18 21:28	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	291	mg/L	2.0	1	01/29/18 21:28	
Carbon Dioxide	SM 4500-CO2 D	300	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	4.7	mg/L	1.0	1	02/01/18 04:33	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	01/29/18 21:28	
Chloride	9056A	124	mg/L	8.0	40	01/27/18 09:51	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.13	mg/L	0.10	1	01/24/18 19:35	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	01/26/18 12:02	
Sulfate	9056A	1030	mg/L	80	400	01/27/18 10:26	



Field Data

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

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT87-01 (1) 180123
Lab Code: R1800602-001

Service Request: R1800602
Date Collected: 01/23/18 09:45
Date Received: 01/23/18 17:20
Basis: NA

Field Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
pH, Field	SM 4500-H+ B	6.70	pH Units	-	1	01/23/18 09:45	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT87-12 (1) 180123
Lab Code: R1800602-002

Service Request: R1800602
Date Collected: 01/23/18 10:15
Date Received: 01/23/18 17:20
Basis: NA

Field Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
pH, Field	SM 4500-H+ B	7.13	pH Units	-	1	01/23/18 10:15	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT87-20 (1) 180123
Lab Code: R1800602-003

Service Request: R1800602
Date Collected: 01/23/18 11:10
Date Received: 01/23/18 17:20
Basis: NA

Field Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
pH, Field	SM 4500-H+ B	7.07	pH Units	-	1	01/23/18 11:10	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT87-22 (1) 180123
Lab Code: R1800602-004

Service Request: R1800602
Date Collected: 01/23/18 11:50
Date Received: 01/23/18 17:20
Basis: NA

Field Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
pH, Field	SM 4500-H+ B	7.11	pH Units	-	1	01/23/18 11:50	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT89-12 (1) 180123
Lab Code: R1800602-005

Service Request: R1800602
Date Collected: 01/23/18 13:00
Date Received: 01/23/18 17:20
Basis: NA

Field Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
pH, Field	SM 4500-H+ B	7.20	pH Units	-	1	01/23/18 13:00	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT89-10 (1) 180123
Lab Code: R1800602-006

Service Request: R1800602
Date Collected: 01/23/18 13:50
Date Received: 01/23/18 17:20
Basis: NA

Field Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
pH, Field	SM 4500-H+ B	6.85	pH Units	-	1	01/23/18 13:50	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-DW-11 180123
Lab Code: R1800602-007

Service Request: R1800602
Date Collected: 01/23/18 14:20
Date Received: 01/23/18 17:20
Basis: NA

Field Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
pH, Field	SM 4500-H+ B	7.78	pH Units	-	1	01/23/18 14:20	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT87-B-14 (1) 180123
Lab Code: R1800602-008

Service Request: R1800602
Date Collected: 01/23/18 15:00
Date Received: 01/23/18 17:20
Basis: NA

Field Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
pH, Field	SM 4500-H+ B	7.27	pH Units	-	1	01/23/18 15:00	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT87-09 (1) 180123
Lab Code: R1800602-009

Service Request: R1800602
Date Collected: 01/23/18 15:25
Date Received: 01/23/18 17:20
Basis: NA

Field Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
pH, Field	SM 4500-H+ B	7.30	pH Units	-	1	01/23/18 15:25	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT87-02 (1) 180124
Lab Code: R1800602-010

Service Request: R1800602
Date Collected: 01/24/18 09:20
Date Received: 01/24/18 16:30
Basis: NA

Field Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
pH, Field	SM 4500-H+ B	6.62	pH Units	-	1	01/23/18 09:20	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-DW-12 180124
Lab Code: R1800602-011

Service Request: R1800602
Date Collected: 01/24/18 09:50
Date Received: 01/24/18 16:30
Basis: NA

Field Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
pH, Field	SM 4500-H+ B	7.50	pH Units	-	1	01/23/18 09:50	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT89-15 (1) 180124
Lab Code: R1800602-012

Service Request: R1800602
Date Collected: 01/24/18 10:35
Date Received: 01/24/18 16:30
Basis: NA

Field Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
pH, Field	SM 4500-H+ B	6.74	pH Units	-	1	01/23/18 10:35	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-DW-10 180124
Lab Code: R1800602-013

Service Request: R1800602
Date Collected: 01/24/18 11:10
Date Received: 01/24/18 16:30
Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
pH, Field	SM 4500-H+ B	7.32	pH Units	-	1	01/23/18 11:10	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT87-08 (1) 180124
Lab Code: R1800602-014

Service Request: R1800602
Date Collected: 01/24/18 11:40
Date Received: 01/24/18 16:30
Basis: NA

Field Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
pH, Field	SM 4500-H+ B	7.20	pH Units	-	1	01/23/18 11:40	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-DW-9 180124
Lab Code: R1800602-015

Service Request: R1800602
Date Collected: 01/24/18 12:00
Date Received: 01/24/18 16:30
Basis: NA

Field Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
pH, Field	SM 4500-H+ B	7.58	pH Units	-	1	01/23/18 12:00	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT B-10A (1) 180124
Lab Code: R1800602-016

Service Request: R1800602
Date Collected: 01/24/18 13:15
Date Received: 01/24/18 16:30
Basis: NA

Field Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
pH, Field	SM 4500-H+ B	7.64	pH Units	-	1	01/23/18 13:15	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT87-13 (1) 180124
Lab Code: R1800602-017

Service Request: R1800602
Date Collected: 01/24/18 13:50
Date Received: 01/24/18 16:30
Basis: NA

Field Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
pH, Field	SM 4500-H+ B	6.65	pH Units	-	1	01/23/18 13:50	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT87-17 (1) 180124
Lab Code: R1800602-018

Service Request: R1800602
Date Collected: 01/24/18 14:25
Date Received: 01/24/18 16:30
Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
pH, Field	SM 4500-H+ B	7.12	pH Units	-	1	01/23/18 14:25	



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
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QA/QC Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
		85 - 122	89 - 119	87 - 121
BAT87-01 (1) 180123	R1800602-001	99	97	100
BAT87-20 (1) 180123	R1800602-003	98	97	99
BAT87-22 (1) 180123	R1800602-004	92	93	93
BAT89-12 (1) 180123	R1800602-005	98	97	98
BAT89-10 (1) 180123	R1800602-006	100	99	99
BAT-DW-11 180123	R1800602-007	92	92	93
BAT87-B-14 (1) 180123	R1800602-008	91	92	93
BAT87-09 (1) 180123	R1800602-009	92	96	97
BAT87-02 (1) 180124	R1800602-010	90	93	93
BAT-DW-12 180124	R1800602-011	91	93	94
BAT89-15 (1) 180124	R1800602-012	89	90	91
BAT-DW-10 180124	R1800602-013	89	95	93
BAT87-08 (1) 180124	R1800602-014	92	94	94
BAT-DW-9 180124	R1800602-015	92	92	94
BAT B-10A (1) 180124	R1800602-016	90	93	92
BAT87-13 (1) 180124	R1800602-017	93	95	95
BAT87-17 (1) 180124	R1800602-018	91	94	94
BAT87-12 (1) 180124	R1800602-019	93	96	96
Lab Control Sample	RQ1800765-03	98	98	99
Method Blank	RQ1800765-04	100	96	98
BAT89-10 (1) 180123 MS	RQ1800765-05	100	98	99
BAT89-10 (1) 180123 DMS	RQ1800765-06	97	99	98
Lab Control Sample	RQ1800815-03	92	95	95
Method Blank	RQ1800815-04	91	91	93
BAT87-22 (1) 180123 MS	RQ1800815-05	91	94	94
BAT87-22 (1) 180123 DMS	RQ1800815-06	92	95	95
Lab Control Sample	RQ1800921-03	93	93	95
Method Blank	RQ1800921-04	91	92	95
Lab Control Sample	RQ1800966-03	89	94	94
Method Blank	RQ1800966-04	89	94	96

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QA/QC Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/23/18
Date Received: 01/23/18
Date Analyzed: 01/26/18
Date Extracted: NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: BAT89-10 (1) 180123
Lab Code: R1800602-006
Analysis Method: 8260C
Prep Method: EPA 5030C

Units: ug/L
Basis: NA

Analyte Name	Matrix Spike RQ1800765-05				Duplicate Matrix Spike RQ1800765-06				RPD	RPD Limit
	Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits		
Chloromethane	10 U	400	500	80	403	500	81	55-160	<1	30
Vinyl Chloride	360	885	500	105	909	500	110	60-157	3	30
Chloroethane	10 U	503	500	101	543	500	109	70-140	8	30
Bromomethane	10 U	147	500	29	152	500	30	10-162	4	30
1,1-Dichloroethene	20	544	500	105	558	500	108	74-139	3	30
Acetone	50 U	418	500	84	402	500	80	29-151	4	30
Carbon Disulfide	63	569	500	101	594	500	106	34-162	4	30
Methylene Chloride	3700 D	3560 E	500	-32 #	3670 E	500	-10 #	75-121	3	30
trans-1,2-Dichloroethene	12	536	500	105	557	500	109	77-125	4	30
1,1-Dichloroethane	29	558	500	106	581	500	110	74-132	4	30
cis-1,2-Dichloroethene	4300 D	4260 E	500	-17 #	4390 E	500	8 #	72-133	3	30
2-Butanone (MEK)	50 U	506	500	101	500	500	100	46-141	1	30
Chloroform	10 U	525	500	105	540	500	108	75-130	3	30
1,1,1-Trichloroethane	85	611	500	105	631	500	109	74-127	3	30
Carbon Tetrachloride	10 U	512	500	102	536	500	107	65-135	5	30
Benzene	10 U	507	500	101	536	500	107	76-129	5	30
1,2-Dichloroethane	10 U	511	500	102	533	500	107	68-130	4	30
Trichloroethene	17000 D	14500 E	500	-421 #	15200 E	500	-293 #	62-142	4	30
1,2-Dichloropropane	10 U	512	500	102	545	500	109	79-124	6	30
Bromodichloromethane	10 U	517	500	103	550	500	110	76-127	6	30
cis-1,3-Dichloropropene	10 U	488	500	98	526	500	105	52-134	7	30
4-Methyl-2-pentanone (MIBK)	50 U	534	500	107	532	500	106	60-141	<1	30
Toluene	8.4 J	512	500	101	538	500	106	79-125	5	30
trans-1,3-Dichloropropene	10 U	488	500	98	526	500	105	50-142	7	30
1,1,2-Trichloroethane	10 U	503	500	101	529	500	106	79-119	5	30
Tetrachloroethene	10 U	476	500	95	513	500	103	67-137	7	30
2-Hexanone	50 U	514	500	103	516	500	103	56-132	<1	30
Dibromochloromethane	10 U	484	500	97	519	500	104	72-128	7	30
Chlorobenzene	10 U	497	500	99	526	500	105	76-125	6	30
Ethylbenzene	10 U	490	500	98	531	500	106	72-134	8	30
m,p-Xylenes	20 U	993	1000	99	1060	1000	106	68-138	6	30
o-Xylene	10 U	495	500	99	535	500	107	68-134	8	30
Styrene	10 U	501	500	100	536	500	107	34-156	7	30
Bromoform	10 U	467	500	93	501	500	100	58-133	7	30
1,1,2,2-Tetrachloroethane	10 U	515	500	103	550	500	110	72-122	7	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.

ALS Group USA, Corp.
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QA/QC Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/23/18
Date Received: 01/23/18
Date Analyzed: 01/29/18
Date Extracted: NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: BAT87-22 (1) 180123
Lab Code: R1800602-004
Analysis Method: 8260C
Prep Method: EPA 5030C

Units: ug/L
Basis: NA

Analyte Name	Matrix Spike RQ1800815-05				Duplicate Matrix Spike RQ1800815-06				RPD	RPD Limit
	Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits		
Chloromethane	25 U	912	1250	73	1050	1250	84	55-160	14	30
Vinyl Chloride	1100 D	2080	1250	80	2490	1250	113	60-157	18	30
Chloroethane	25 U	1360	1250	109	1450	1250	116	70-140	7	30
Bromomethane	25 U	330	1250	26	492	1250	39	10-162	40*	30
1,1-Dichloroethene	25 U	1200	1250	96	1340	1250	107	74-139	11	30
Acetone	130 U	966	1250	77	1050	1250	84	29-151	8	30
Carbon Disulfide	25 U	1190	1250	96	1360	1250	109	34-162	13	30
Methylene Chloride	25 U	1200	1250	96	1320	1250	105	75-121	9	30
trans-1,2-Dichloroethene	12 DJ	1210	1250	96	1350	1250	107	77-125	11	30
1,1-Dichloroethane	9.3 DJ	1260	1250	100	1380	1250	110	74-132	9	30
cis-1,2-Dichloroethene	2700 D	3350	1250	53 *	4120	1250	114	72-133	20	30
2-Butanone (MEK)	130 U	1190	1250	95	1300	1250	104	46-141	9	30
Chloroform	25 U	1220	1250	98	1340	1250	107	75-130	9	30
1,1,1-Trichloroethane	25 U	1200	1250	96	1320	1250	106	74-127	10	30
Carbon Tetrachloride	25 U	1160	1250	93	1280	1250	102	65-135	10	30
Benzene	25 U	1200	1250	96	1320	1250	106	76-129	10	30
1,2-Dichloroethane	25 U	1230	1250	98	1330	1250	106	68-130	8	30
Trichloroethene	70 D	1180	1250	89	1280	1250	97	62-142	8	30
1,2-Dichloropropane	25 U	1210	1250	97	1330	1250	107	79-124	10	30
Bromodichloromethane	25 U	1210	1250	97	1340	1250	107	76-127	10	30
cis-1,3-Dichloropropene	25 U	1170	1250	93	1280	1250	102	52-134	9	30
4-Methyl-2-pentanone (MIBK)	130 U	1260	1250	101	1350	1250	108	60-141	7	30
Toluene	25 U	1160	1250	93	1270	1250	101	79-125	9	30
trans-1,3-Dichloropropene	25 U	1170	1250	93	1280	1250	102	50-142	9	30
1,1,2-Trichloroethane	25 U	1200	1250	96	1310	1250	105	79-119	8	30
Tetrachloroethene	25 U	1060	1250	85	1190	1250	95	67-137	11	30
2-Hexanone	130 U	1220	1250	97	1310	1250	105	56-132	8	30
Dibromochloromethane	25 U	1150	1250	92	1290	1250	103	72-128	11	30
Chlorobenzene	25 U	1140	1250	91	1260	1250	101	76-125	10	30
Ethylbenzene	25 U	1100	1250	88	1230	1250	98	72-134	11	30
m,p-Xylenes	50 U	2180	2500	87	2440	2500	98	68-138	11	30
o-Xylene	25 U	1110	1250	89	1230	1250	98	68-134	10	30
Styrene	25 U	1130	1250	90	1260	1250	101	34-156	11	30
Bromoform	25 U	1100	1250	88	1240	1250	99	58-133	12	30
1,1,2,2-Tetrachloroethane	25 U	1240	1250	99	1370	1250	110	72-122	10	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.

ALS Group USA, Corp.
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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ1800765-04

Service Request: R1800602
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	01/26/18 12:03	
Vinyl Chloride	1.0 U	1.0	0.32	1	01/26/18 12:03	
Chloroethane	1.0 U	1.0	0.24	1	01/26/18 12:03	
Bromomethane	1.0 U	1.0	0.29	1	01/26/18 12:03	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	01/26/18 12:03	
Acetone	5.0 U	5.0	1.3	1	01/26/18 12:03	
Carbon Disulfide	1.0 U	1.0	0.22	1	01/26/18 12:03	
Methylene Chloride	1.0 U	1.0	0.60	1	01/26/18 12:03	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	01/26/18 12:03	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	01/26/18 12:03	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	01/26/18 12:03	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	01/26/18 12:03	
Chloroform	1.0 U	1.0	0.25	1	01/26/18 12:03	
1,1,1-Trichloroethane	1.0 U	1.0	0.36	1	01/26/18 12:03	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	01/26/18 12:03	
Benzene	1.0 U	1.0	0.20	1	01/26/18 12:03	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	01/26/18 12:03	
Trichloroethene	1.0 U	1.0	0.22	1	01/26/18 12:03	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	01/26/18 12:03	
Bromodichloromethane	1.0 U	1.0	0.32	1	01/26/18 12:03	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	01/26/18 12:03	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	01/26/18 12:03	
Toluene	1.0 U	1.0	0.20	1	01/26/18 12:03	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	01/26/18 12:03	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	01/26/18 12:03	
Tetrachloroethene	1.0 U	1.0	0.30	1	01/26/18 12:03	
2-Hexanone	5.0 U	5.0	1.7	1	01/26/18 12:03	
Dibromochloromethane	1.0 U	1.0	0.31	1	01/26/18 12:03	
Chlorobenzene	1.0 U	1.0	0.29	1	01/26/18 12:03	
Ethylbenzene	1.0 U	1.0	0.20	1	01/26/18 12:03	
m,p-Xylenes	2.0 U	2.0	0.33	1	01/26/18 12:03	
o-Xylene	1.0 U	1.0	0.20	1	01/26/18 12:03	
Styrene	1.0 U	1.0	0.20	1	01/26/18 12:03	
Bromoform	1.0 U	1.0	0.42	1	01/26/18 12:03	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	01/26/18 12:03	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ1800765-04

Service Request: R1800602
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85 - 122	01/26/18 12:03	
Toluene-d8	98	87 - 121	01/26/18 12:03	
Dibromofluoromethane	96	89 - 119	01/26/18 12:03	

ALS Group USA, Corp.
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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1800815-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	01/29/18 13:44	
Vinyl Chloride	1.0 U	1.0	0.32	1	01/29/18 13:44	
Chloroethane	1.0 U	1.0	0.24	1	01/29/18 13:44	
Bromomethane	1.0 U	1.0	0.29	1	01/29/18 13:44	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	01/29/18 13:44	
Acetone	5.0 U	5.0	1.3	1	01/29/18 13:44	
Carbon Disulfide	1.0 U	1.0	0.22	1	01/29/18 13:44	
Methylene Chloride	1.0 U	1.0	0.60	1	01/29/18 13:44	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	01/29/18 13:44	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	01/29/18 13:44	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	01/29/18 13:44	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	01/29/18 13:44	
Chloroform	1.0 U	1.0	0.25	1	01/29/18 13:44	
1,1,1-Trichloroethane	1.0 U	1.0	0.36	1	01/29/18 13:44	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	01/29/18 13:44	
Benzene	1.0 U	1.0	0.20	1	01/29/18 13:44	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	01/29/18 13:44	
Trichloroethene	1.0 U	1.0	0.22	1	01/29/18 13:44	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	01/29/18 13:44	
Bromodichloromethane	1.0 U	1.0	0.32	1	01/29/18 13:44	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	01/29/18 13:44	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	01/29/18 13:44	
Toluene	1.0 U	1.0	0.20	1	01/29/18 13:44	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	01/29/18 13:44	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	01/29/18 13:44	
Tetrachloroethene	1.0 U	1.0	0.30	1	01/29/18 13:44	
2-Hexanone	5.0 U	5.0	1.7	1	01/29/18 13:44	
Dibromochloromethane	1.0 U	1.0	0.31	1	01/29/18 13:44	
Chlorobenzene	1.0 U	1.0	0.29	1	01/29/18 13:44	
Ethylbenzene	1.0 U	1.0	0.20	1	01/29/18 13:44	
m,p-Xylenes	2.0 U	2.0	0.33	1	01/29/18 13:44	
o-Xylene	1.0 U	1.0	0.20	1	01/29/18 13:44	
Styrene	1.0 U	1.0	0.20	1	01/29/18 13:44	
Bromoform	1.0 U	1.0	0.42	1	01/29/18 13:44	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	01/29/18 13:44	

ALS Group USA, Corp.
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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ1800815-04

Service Request: R1800602
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85 - 122	01/29/18 13:44	
Toluene-d8	93	87 - 121	01/29/18 13:44	
Dibromofluoromethane	91	89 - 119	01/29/18 13:44	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1800921-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	01/30/18 18:29	
Vinyl Chloride	1.0 U	1.0	0.32	1	01/30/18 18:29	
Chloroethane	1.0 U	1.0	0.24	1	01/30/18 18:29	
Bromomethane	1.0 U	1.0	0.29	1	01/30/18 18:29	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	01/30/18 18:29	
Acetone	5.0 U	5.0	1.3	1	01/30/18 18:29	
Carbon Disulfide	1.0 U	1.0	0.22	1	01/30/18 18:29	
Methylene Chloride	1.0 U	1.0	0.60	1	01/30/18 18:29	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	01/30/18 18:29	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	01/30/18 18:29	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	01/30/18 18:29	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	01/30/18 18:29	
Chloroform	1.0 U	1.0	0.25	1	01/30/18 18:29	
1,1,1-Trichloroethane	1.0 U	1.0	0.36	1	01/30/18 18:29	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	01/30/18 18:29	
Benzene	1.0 U	1.0	0.20	1	01/30/18 18:29	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	01/30/18 18:29	
Trichloroethene	1.0 U	1.0	0.22	1	01/30/18 18:29	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	01/30/18 18:29	
Bromodichloromethane	1.0 U	1.0	0.32	1	01/30/18 18:29	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	01/30/18 18:29	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	01/30/18 18:29	
Toluene	1.0 U	1.0	0.20	1	01/30/18 18:29	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	01/30/18 18:29	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	01/30/18 18:29	
Tetrachloroethene	1.0 U	1.0	0.30	1	01/30/18 18:29	
2-Hexanone	5.0 U	5.0	1.7	1	01/30/18 18:29	
Dibromochloromethane	1.0 U	1.0	0.31	1	01/30/18 18:29	
Chlorobenzene	1.0 U	1.0	0.29	1	01/30/18 18:29	
Ethylbenzene	1.0 U	1.0	0.20	1	01/30/18 18:29	
m,p-Xylenes	2.0 U	2.0	0.33	1	01/30/18 18:29	
o-Xylene	1.0 U	1.0	0.20	1	01/30/18 18:29	
Styrene	1.0 U	1.0	0.20	1	01/30/18 18:29	
Bromoform	1.0 U	1.0	0.42	1	01/30/18 18:29	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	01/30/18 18:29	

ALS Group USA, Corp.
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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1800921-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85 - 122	01/30/18 18:29	
Toluene-d8	95	87 - 121	01/30/18 18:29	
Dibromofluoromethane	92	89 - 119	01/30/18 18:29	

ALS Group USA, Corp.
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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1800966-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	01/31/18 17:15	
Vinyl Chloride	1.0 U	1.0	0.32	1	01/31/18 17:15	
Chloroethane	1.0 U	1.0	0.24	1	01/31/18 17:15	
Bromomethane	1.0 U	1.0	0.29	1	01/31/18 17:15	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	01/31/18 17:15	
Acetone	5.0 U	5.0	1.3	1	01/31/18 17:15	
Carbon Disulfide	1.0 U	1.0	0.22	1	01/31/18 17:15	
Methylene Chloride	1.0 U	1.0	0.60	1	01/31/18 17:15	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	01/31/18 17:15	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	01/31/18 17:15	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	01/31/18 17:15	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	01/31/18 17:15	
Chloroform	1.0 U	1.0	0.25	1	01/31/18 17:15	
1,1,1-Trichloroethane	1.0 U	1.0	0.36	1	01/31/18 17:15	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	01/31/18 17:15	
Benzene	1.0 U	1.0	0.20	1	01/31/18 17:15	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	01/31/18 17:15	
Trichloroethene	1.0 U	1.0	0.22	1	01/31/18 17:15	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	01/31/18 17:15	
Bromodichloromethane	1.0 U	1.0	0.32	1	01/31/18 17:15	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	01/31/18 17:15	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	01/31/18 17:15	
Toluene	1.0 U	1.0	0.20	1	01/31/18 17:15	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	01/31/18 17:15	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	01/31/18 17:15	
Tetrachloroethene	1.0 U	1.0	0.30	1	01/31/18 17:15	
2-Hexanone	5.0 U	5.0	1.7	1	01/31/18 17:15	
Dibromochloromethane	1.0 U	1.0	0.31	1	01/31/18 17:15	
Chlorobenzene	1.0 U	1.0	0.29	1	01/31/18 17:15	
Ethylbenzene	1.0 U	1.0	0.20	1	01/31/18 17:15	
m,p-Xylenes	2.0 U	2.0	0.33	1	01/31/18 17:15	
o-Xylene	1.0 U	1.0	0.20	1	01/31/18 17:15	
Styrene	1.0 U	1.0	0.20	1	01/31/18 17:15	
Bromoform	1.0 U	1.0	0.42	1	01/31/18 17:15	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	01/31/18 17:15	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ1800966-04

Service Request: R1800602
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	89	85 - 122	01/31/18 17:15	
Toluene-d8	96	87 - 121	01/31/18 17:15	
Dibromofluoromethane	94	89 - 119	01/31/18 17:15	

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QA/QC Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Analyzed: 01/26/18

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1800765-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chloromethane	8260C	17.1	20.0	85	69-145
Vinyl Chloride	8260C	17.6	20.0	88	69-133
Chloroethane	8260C	18.3	20.0	91	70-127
Bromomethane	8260C	18.9	20.0	94	42-166
1,1-Dichloroethene	8260C	17.6	20.0	88	74-135
Acetone	8260C	19.8	20.0	99	40-161
Carbon Disulfide	8260C	19.9	20.0	100	65-127
Methylene Chloride	8260C	18.8	20.0	94	73-122
trans-1,2-Dichloroethene	8260C	18.4	20.0	92	80-120
1,1-Dichloroethane	8260C	18.7	20.0	94	78-117
cis-1,2-Dichloroethene	8260C	18.1	20.0	90	80-121
2-Butanone (MEK)	8260C	19.3	20.0	96	61-137
Chloroform	8260C	18.7	20.0	93	76-120
1,1,1-Trichloroethane	8260C	17.4	20.0	87	74-120
Carbon Tetrachloride	8260C	16.7	20.0	84	68-125
Benzene	8260C	18.1	20.0	90	76-118
1,2-Dichloroethane	8260C	19.0	20.0	95	71-127
Trichloroethene	8260C	17.6	20.0	88	78-123
1,2-Dichloropropane	8260C	18.8	20.0	94	80-119
Bromodichloromethane	8260C	18.9	20.0	94	78-126
cis-1,3-Dichloropropene	8260C	18.6	20.0	93	74-126
4-Methyl-2-pentanone (MIBK)	8260C	17.7	20.0	88	66-124
Toluene	8260C	17.4	20.0	87	77-120
trans-1,3-Dichloropropene	8260C	18.6	20.0	93	67-135
1,1,2-Trichloroethane	8260C	19.1	20.0	95	82-118
Tetrachloroethene	8260C	16.8	20.0	84	78-124
2-Hexanone	8260C	18.3	20.0	92	63-124
Dibromochloromethane	8260C	18.1	20.0	90	77-128
Chlorobenzene	8260C	17.9	20.0	90	80-121
Ethylbenzene	8260C	17.3	20.0	86	76-120
m,p-Xylenes	8260C	34.6	40.0	86	78-123
o-Xylene	8260C	17.5	20.0	88	80-120
Styrene	8260C	17.9	20.0	90	80-124

ALS Group USA, Corp.
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QA/QC Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Analyzed: 01/26/18

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1800765-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Bromoform	8260C	16.9	20.0	85	71-136
1,1,2,2-Tetrachloroethane	8260C	19.2	20.0	96	78-122

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QA/QC Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Analyzed: 01/29/18

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1800815-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chloromethane	8260C	15.9	20.0	80	69-145
Vinyl Chloride	8260C	21.1	20.0	106	69-133
Chloroethane	8260C	22.1	20.0	110	70-127
Bromomethane	8260C	12.1	20.0	61	42-166
1,1-Dichloroethene	8260C	21.3	20.0	107	74-135
Acetone	8260C	23.2	20.0	116	40-161
Carbon Disulfide	8260C	22.3	20.0	111	65-127
Methylene Chloride	8260C	20.6	20.0	103	73-122
trans-1,2-Dichloroethene	8260C	21.7	20.0	109	80-120
1,1-Dichloroethane	8260C	21.7	20.0	109	78-117
cis-1,2-Dichloroethene	8260C	20.8	20.0	104	80-121
2-Butanone (MEK)	8260C	22.9	20.0	114	61-137
Chloroform	8260C	21.5	20.0	107	76-120
1,1,1-Trichloroethane	8260C	21.4	20.0	107	74-120
Carbon Tetrachloride	8260C	21.2	20.0	106	68-125
Benzene	8260C	21.2	20.0	106	76-118
1,2-Dichloroethane	8260C	21.3	20.0	106	71-127
Trichloroethene	8260C	20.9	20.0	105	78-123
1,2-Dichloropropane	8260C	21.5	20.0	107	80-119
Bromodichloromethane	8260C	21.1	20.0	105	78-126
cis-1,3-Dichloropropene	8260C	20.8	20.0	104	74-126
4-Methyl-2-pentanone (MIBK)	8260C	21.4	20.0	107	66-124
Toluene	8260C	21.0	20.0	105	77-120
trans-1,3-Dichloropropene	8260C	20.8	20.0	104	67-135
1,1,2-Trichloroethane	8260C	21.2	20.0	106	82-118
Tetrachloroethene	8260C	21.2	20.0	106	78-124
2-Hexanone	8260C	22.4	20.0	112	63-124
Dibromochloromethane	8260C	21.1	20.0	105	77-128
Chlorobenzene	8260C	21.6	20.0	108	80-121
Ethylbenzene	8260C	21.4	20.0	107	76-120
m,p-Xylenes	8260C	43.0	40.0	107	78-123
o-Xylene	8260C	21.6	20.0	108	80-120
Styrene	8260C	21.5	20.0	107	80-124

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QA/QC Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Analyzed: 01/29/18

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1800815-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Bromoform	8260C	20.7	20.0	103	71-136
1,1,2,2-Tetrachloroethane	8260C	22.3	20.0	111	78-122

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QA/QC Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Analyzed: 01/30/18

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1800921-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chloromethane	8260C	17.0	20.0	85	69-145
Vinyl Chloride	8260C	20.8	20.0	104	69-133
Chloroethane	8260C	21.3	20.0	106	70-127
Bromomethane	8260C	14.1	20.0	71	42-166
1,1-Dichloroethene	8260C	20.5	20.0	103	74-135
Acetone	8260C	17.4	20.0	87	40-161
Carbon Disulfide	8260C	17.7	20.0	88	65-127
Methylene Chloride	8260C	19.7	20.0	98	73-122
trans-1,2-Dichloroethene	8260C	20.5	20.0	102	80-120
1,1-Dichloroethane	8260C	20.7	20.0	103	78-117
cis-1,2-Dichloroethene	8260C	19.6	20.0	98	80-121
2-Butanone (MEK)	8260C	17.6	20.0	88	61-137
Chloroform	8260C	20.2	20.0	101	76-120
1,1,1-Trichloroethane	8260C	20.1	20.0	101	74-120
Carbon Tetrachloride	8260C	18.8	20.0	94	68-125
Benzene	8260C	19.8	20.0	99	76-118
1,2-Dichloroethane	8260C	19.8	20.0	99	71-127
Trichloroethene	8260C	19.2	20.0	96	78-123
1,2-Dichloropropane	8260C	20.2	20.0	101	80-119
Bromodichloromethane	8260C	19.7	20.0	99	78-126
cis-1,3-Dichloropropene	8260C	18.7	20.0	93	74-126
4-Methyl-2-pentanone (MIBK)	8260C	16.4	20.0	82	66-124
Toluene	8260C	19.3	20.0	97	77-120
trans-1,3-Dichloropropene	8260C	18.7	20.0	93	67-135
1,1,2-Trichloroethane	8260C	19.1	20.0	96	82-118
Tetrachloroethene	8260C	18.9	20.0	94	78-124
2-Hexanone	8260C	16.8	20.0	84	63-124
Dibromochloromethane	8260C	18.2	20.0	91	77-128
Chlorobenzene	8260C	19.6	20.0	98	80-121
Ethylbenzene	8260C	19.1	20.0	96	76-120
m,p-Xylenes	8260C	38.0	40.0	95	78-123
o-Xylene	8260C	19.3	20.0	96	80-120
Styrene	8260C	19.2	20.0	96	80-124

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QA/QC Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Analyzed: 01/30/18

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L

Basis:NA

Lab Control Sample

RQ1800921-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Bromoform	8260C	16.1	20.0	80	71-136
1,1,2,2-Tetrachloroethane	8260C	18.7	20.0	93	78-122

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QA/QC Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Analyzed: 01/31/18

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1800966-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chloromethane	8260C	15.9	20.0	79	69-145
Vinyl Chloride	8260C	18.9	20.0	94	69-133
Chloroethane	8260C	18.3	20.0	91	70-127
Bromomethane	8260C	15.7	20.0	79	42-166
1,1-Dichloroethene	8260C	18.3	20.0	92	74-135
Acetone	8260C	19.4	20.0	97	40-161
Carbon Disulfide	8260C	17.6	20.0	88	65-127
Methylene Chloride	8260C	19.1	20.0	95	73-122
trans-1,2-Dichloroethene	8260C	19.0	20.0	95	80-120
1,1-Dichloroethane	8260C	19.5	20.0	97	78-117
cis-1,2-Dichloroethene	8260C	18.3	20.0	92	80-121
2-Butanone (MEK)	8260C	18.9	20.0	94	61-137
Chloroform	8260C	19.2	20.0	96	76-120
1,1,1-Trichloroethane	8260C	17.7	20.0	88	74-120
Carbon Tetrachloride	8260C	16.6	20.0	83	68-125
Benzene	8260C	18.4	20.0	92	76-118
1,2-Dichloroethane	8260C	19.3	20.0	97	71-127
Trichloroethene	8260C	17.3	20.0	87	78-123
1,2-Dichloropropane	8260C	19.0	20.0	95	80-119
Bromodichloromethane	8260C	18.5	20.0	92	78-126
cis-1,3-Dichloropropene	8260C	18.4	20.0	92	74-126
4-Methyl-2-pentanone (MIBK)	8260C	17.8	20.0	89	66-124
Toluene	8260C	17.5	20.0	87	77-120
trans-1,3-Dichloropropene	8260C	18.4	20.0	92	67-135
1,1,2-Trichloroethane	8260C	18.5	20.0	93	82-118
Tetrachloroethene	8260C	16.7	20.0	83	78-124
2-Hexanone	8260C	18.3	20.0	92	63-124
Dibromochloromethane	8260C	17.7	20.0	88	77-128
Chlorobenzene	8260C	18.2	20.0	91	80-121
Ethylbenzene	8260C	17.2	20.0	86	76-120
m,p-Xylenes	8260C	34.5	40.0	86	78-123
o-Xylene	8260C	17.6	20.0	88	80-120
Styrene	8260C	18.0	20.0	90	80-124

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QA/QC Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602

Date Analyzed: 01/31/18

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L

Basis:NA

Lab Control Sample

RQ1800966-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Bromoform	8260C	16.2	20.0	81	71-136
1,1,2,2-Tetrachloroethane	8260C	18.9	20.0	94	78-122



Volatile Organic Compounds by GC

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1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1800856-01

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	1.0 U	1.0	1	01/30/18 11:57	
Ethene	1.0 U	1.0	1	01/30/18 11:57	
Methane	1.0 U	1.0	1	01/30/18 11:57	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1801036-01

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	1.0 U	1.0	1	02/02/18 13:13	
Ethene	1.0 U	1.0	1	02/02/18 13:13	
Methane	1.1 U	1.1	1	02/02/18 13:13	

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QA/QC Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Analyzed: 01/30/18

Duplicate Lab Control Sample Summary
Dissolved Gases by GC/FID

Units:ug/L
Basis:NA

Lab Control Sample
RQ1800856-02

Duplicate Lab Control Sample
RQ1800856-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Ethane	RSK 175	25.5	26.0	98	24.4	26.0	94	75-118	5	20
Ethene	RSK 175	23.4	24.3	96	22.3	24.3	92	73-129	4	20
Methane	RSK 175	25.5	26.2	97	24.3	26.2	93	65-126	5	20

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QA/QC Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Analyzed: 02/02/18

Duplicate Lab Control Sample Summary
Dissolved Gases by GC/FID

Units:ug/L
Basis:NA

Analyte Name	Lab Control Sample				Duplicate Lab Control Sample					
	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Ethane	RSK 175	25.7	26.0	99	24.6	26.0	94	75-118	5	20
Ethene	RSK 175	21.0	24.3	86	20.5	24.3	84	73-129	2	20
Methane	RSK 175	25.7	26.2	98	24.7	26.2	94	65-126	4	20



Semivolatile Organic Compounds by GC

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Phone (585) 288-5380 Fax (585) 288-8475
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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1800900-01

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	01/30/18 12:25	
Acetic Acid	1.0 U	1.0	1	01/30/18 12:25	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	01/30/18 12:25	
Lactic Acid	1.0 U	1.0	1	01/30/18 12:25	
Propionic Acid	1.0 U	1.0	1	01/30/18 12:25	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1800956-01

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	01/31/18 08:35	
Acetic Acid	1.0 U	1.0	1	01/31/18 08:35	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	01/31/18 08:35	
Lactic Acid	1.0 U	1.0	1	01/31/18 08:35	
Propionic Acid	1.0 U	1.0	1	01/31/18 08:35	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1800956-04

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	01/31/18 16:51	
Acetic Acid	1.0 U	1.0	1	01/31/18 16:51	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	01/31/18 16:51	
Lactic Acid	1.0 U	1.0	1	01/31/18 16:51	
Propionic Acid	1.0 U	1.0	1	01/31/18 16:51	

ALS Group USA, Corp.
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QA/QC Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Analyzed: 12/30/00 - 01/30/18

Duplicate Lab Control Sample Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Units:mg/L
Basis:NA

Analyte Name	Analytical Method	Lab Control Sample RQ1800900-02			Duplicate Lab Control Sample RQ1800900-03			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Pyruvic Acid	Organic Acids	2.19	2.00	109	2.24	2.00	112	70-130	2	30
Acetic Acid	Organic Acids	19.7	20.1	98	20.0	20.1	100	70-130	1	30
Butanoic Acid (Butyric Acid)	Organic Acids	21.2	20.0	106	20.0	20.0	100	70-130	6	30
Lactic Acid	Organic Acids	20.2	20.9	97	20.7	20.9	99	70-130	2	30
Propionic Acid	Organic Acids	21.2	20.5	103	21.2	20.5	103	70-130	<1	30

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QA/QC Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Analyzed: 01/31/18

Duplicate Lab Control Sample Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Units:mg/L
Basis:NA

Lab Control Sample
RQ1800956-02

Duplicate Lab Control Sample
RQ1800956-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Pyruvic Acid	Organic Acids	2.16	2.00	108	2.23	2.00	111	70-130	3	30
Acetic Acid	Organic Acids	19.9	20.1	99	20.5	20.1	102	70-130	3	30
Butanoic Acid (Butyric Acid)	Organic Acids	20.7	20.0	104	21.3	20.0	106	70-130	2	30
Lactic Acid	Organic Acids	20.6	20.9	99	21.3	20.9	102	70-130	3	30
Propionic Acid	Organic Acids	21.6	20.5	105	22.1	20.5	108	70-130	2	30

ALS Group USA, Corp.
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QA/QC Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Analyzed: 01/31/18

Duplicate Lab Control Sample Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Units:mg/L
Basis:NA

Analyte Name	Analytical Method	Lab Control Sample RQ1800956-05			Duplicate Lab Control Sample RQ1800956-06			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Pyruvic Acid	Organic Acids	2.19	2.00	109	2.22	2.00	111	70-130	1	30
Acetic Acid	Organic Acids	20.2	20.1	100	20.0	20.1	100	70-130	<1	30
Butanoic Acid (Butyric Acid)	Organic Acids	20.0	20.0	100	19.9	20.0	99	70-130	<1	30
Lactic Acid	Organic Acids	20.5	20.9	98	21.0	20.9	100	70-130	2	30
Propionic Acid	Organic Acids	21.5	20.5	105	22.0	20.5	107	70-130	3	30



General Chemistry

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

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R1800602-MB1

Service Request: R1800602
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	01/29/18 10:57	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	01/29/18 10:57	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0 U	mg/L	1.0	1	01/31/18 15:19	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	01/29/18 10:57	
Chloride	9056A	0.20 U	mg/L	0.20	1	01/24/18 22:26	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.10 U	mg/L	0.10	1	01/23/18 18:15	
Nitrate as Nitrogen	9056A	0.10 U	mg/L	0.10	1	01/24/18 22:26	
Sulfate	9056A	0.20 U	mg/L	0.20	1	01/24/18 22:26	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R1800602-MB2

Service Request: R1800602
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	01/29/18 19:33	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	01/29/18 19:33	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0 U	mg/L	1.0	1	01/31/18 23:41	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	01/29/18 19:33	
Chloride	9056A	0.20 U	mg/L	0.20	1	01/25/18 03:21	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.10 U	mg/L	0.10	1	01/24/18 19:35	
Nitrate as Nitrogen	9056A	0.10 U	mg/L	0.10	1	01/25/18 03:21	
Sulfate	9056A	0.20 U	mg/L	0.20	1	01/25/18 03:21	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R1800602-MB3

Service Request: R1800602
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	01/29/18 21:55	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	01/29/18 21:55	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0 U	mg/L	1.0	1	02/01/18 16:56	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	01/29/18 21:55	
Chloride	9056A	0.20 U	mg/L	0.20	1	01/26/18 08:30	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.10 U	mg/L	0.10	1	01/25/18 18:25	
Nitrate as Nitrogen	9056A	0.10 U	mg/L	0.10	1	01/26/18 08:30	
Sulfate	9056A	0.20 U	mg/L	0.20	1	01/26/18 08:30	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R1800602-MB4

Service Request: R1800602
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Chloride	9056A	0.20 U	mg/L	0.20	1	01/27/18 07:56	
Sulfate	9056A	0.20 U	mg/L	0.20	1	01/27/18 07:56	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R1800602-MB5

Service Request: R1800602
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Chloride	9056A	0.20 U	mg/L	0.20	1	02/01/18 01:54	
Sulfate	9056A	0.20 U	mg/L	0.20	1	02/01/18 01:54	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/23/18
Date Received: 01/23/18
Date Analyzed: 01/25/18

Duplicate Matrix Spike Summary
Sulfate

Sample Name: BAT87-12 (1) 180123
Lab Code: R1800602-002
Analysis Method: 9056A

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike R1800602-002MS		Duplicate Matrix Spike R1800602-002DMS		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Sulfate	550	1430	800	111	1420	800	109	80-120	<1	15

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.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request:R1800602
Date Collected:01/23/18
Date Received:01/23/18
Date Analyzed:1/25/18

**Duplicate Matrix Spike Summary
General Chemistry Parameters**

Sample Name: BAT87-20 (1) 180123
Lab Code: R1800602-003

Units:mg/L
Basis:NA

**Matrix Spike
R1800602-003MS**

**Duplicate Matrix Spike
R1800602-003DMS**

Analyte Name	Method	Sample		Spike		Duplicate Matrix Spike		% Rec Limits	RPD	RPD Limit	
		Result	Result	Amount	% Rec	Amount	% Rec				
Chloride	9056A	217	655	400	110	653	400	109	80-120	<1	15
Sulfate	9056A	779	1200	400	106	1200	400	105	80-120	<1	15

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.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/23/18
Date Received: 01/23/18
Date Analyzed: 01/25/18

Duplicate Matrix Spike Summary
Sulfate

Sample Name: BAT-DW-11 180123
Lab Code: R1800602-007
Analysis Method: 9056A

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike R1800602-007MS		Duplicate Matrix Spike R1800602-007DMS		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Sulfate	409	492	100	83 #	492	100	83 #	80-120	<1	15

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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.

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dba ALS Environmental

QA/QC Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/23/18
Date Received: 01/23/18
Date Analyzed: 01/23/18

Duplicate Matrix Spike Summary
Iron, Divalent (Ferrous Iron)

Sample Name: BAT87-09 (1) 180123
Lab Code: R1800602-009
Analysis Method: SM 3500-Fe B.4.c

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike R1800602-009MS			Duplicate Matrix Spike R1800602-009DMS			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Iron, Divalent (Ferrous Iron)	0.10 U	0.50	0.40	125	0.46	0.40	115	26-169	8	20

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.

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dba ALS Environmental

QA/QC Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/24/18
Date Received: 01/24/18
Date Analyzed: 01/25/18

Duplicate Matrix Spike Summary
Iron, Divalent (Ferrous Iron)

Sample Name: BAT-DW-12 180124
Lab Code: R1800602-011
Analysis Method: SM 3500-Fe B.4.c

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike R1800602-011MS			Duplicate Matrix Spike R1800602-011DMS			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Iron, Divalent (Ferrous Iron)	0.10 U	0.41	0.40	102	0.40	0.40	100	26-169	2	20

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.

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QA/QC Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/24/18
Date Received: 01/24/18
Date Analyzed: 02/1/18

Duplicate Matrix Spike Summary
Sulfate

Sample Name: BAT87-08 (1) 180124
Lab Code: R1800602-014
Analysis Method: 9056A

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike R1800602-014MS		Duplicate Matrix Spike R1800602-014DMS		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Sulfate	122	207	80.0	106	207	80.0	107	80-120	<1	15

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.

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QA/QC Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/24/18
Date Received: 01/24/18
Date Analyzed: 01/24/18

Duplicate Matrix Spike Summary
Iron, Divalent (Ferrous Iron)

Sample Name: BAT87-17 (1) 180124
Lab Code: R1800602-018
Analysis Method: SM 3500-Fe B.4.c

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike R1800602-018MS			Duplicate Matrix Spike R1800602-018DMS			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Iron, Divalent (Ferrous Iron)	0.13	0.58	0.40	112	0.61	0.40	120	26-169	5	20

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.

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QA/QC Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Collected: 01/23/18
Date Received: 01/23/18
Date Analyzed: 01/29/18

Replicate Sample Summary
General Chemistry Parameters

Sample Name: BAT87-B-14 (1) 180123
Lab Code: R1800602-008

Units: mg/L
Basis: NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample R1800602-008DUP Result	Average	RPD	RPD Limit
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	2.0	290	289	290	<1	20
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0	290	289	290	<1	20
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0	2.0 U	2.0 U	NC	NC	20

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.

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QA/QC Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Analyzed: 01/23/18 - 01/31/18

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1800602-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	19.2	20.0	96	81-112
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	10.8	10.0	108	81-118
Chloride	9056A	2.10	2.00	105	80-120
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.37	0.40	92	67-129
Nitrate as Nitrogen	9056A	1.02	1.00	102	80-120
Sulfate	9056A	2.06	2.00	103	80-120

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QA/QC Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Analyzed: 01/24/18 - 02/01/18

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1800602-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	18.4	20.0	92	81-112
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	10.8	10.0	108	81-118
Chloride	9056A	2.13	2.00	107	80-120
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.44	0.40	110	67-129
Nitrate as Nitrogen	9056A	1.03	1.00	103	80-120
Sulfate	9056A	2.09	2.00	104	80-120

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QA/QC Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Analyzed: 01/25/18 - 02/01/18

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1800602-LCS3

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	18.4	20.0	92	81-112
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	11.1	10.0	111	81-118
Chloride	9056A	2.09	2.00	104	80-120
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.42	0.40	105	67-129
Nitrate as Nitrogen	9056A	1.03	1.00	103	80-120
Sulfate	9056A	2.05	2.00	102	80-120

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QA/QC Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Analyzed: 01/27/18

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1800602-LCS4

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chloride	9056A	2.04	2.00	102	80-120
Sulfate	9056A	2.01	2.00	100	80-120

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QA/QC Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1800602
Date Analyzed: 02/01/18

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1800602-LCS5

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chloride	9056A	1.98	2.00	99	80-120
Sulfate	9056A	1.95	2.00	97	80-120



March 13, 2018

Service Request No:R1801690

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

Laboratory Results for: Textron Injection

Dear Ms.Byers,

Enclosed are the results of the sample(s) submitted to our laboratory February 28, 2018
For your reference, these analyses have been assigned our service request number **R1801690**.

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



Client: APTIM, Inc
Project: Textron Injection
Sample Matrix: Water

Service Request: R1801690
Date Received: 02/27/2018 - 03/01/2018

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:

Nineteen water samples were received for analysis at ALS Environmental on 02/27/2018 - 03/01/2018. 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.

Semivolatile GC:

No significant anomalies were noted with this analysis.

General Chemistry:

No significant anomalies were noted with this analysis.

Volatiles by GC/MS:

Method 8260C, 03/02/2018: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8260C, 03/05/2018: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8260C, 03/06/2018: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Volatiles by GC:

No significant anomalies were noted with this analysis.

Field:

No significant anomalies were noted with this analysis.

Approved by

A handwritten signature in black ink, appearing to read "Samantha Dwyer", is written over a horizontal line.

Date

03/13/2018



SAMPLE DETECTION SUMMARY

CLIENT ID: BAT-87-02 (1) 180227 **Lab ID: R1801690-001**

Analyte	Results	Flag	MDL	PQL	Units	Method
Alkalinity, Total as CaCO3	589		1.0	2.0	mg/L	SM 2320 B-
Bicarbonate Alkalinity as CaCO3	589		1.0	2.0	mg/L	SM 2320 B-
Carbon Dioxide	648			2.0	mg/L	SM 4500-
Carbon, Total Organic (TOC)	143		0.9	20	mg/L	SM 5310 C-
Chloride	619		2	20	mg/L	9056A
Iron, Divalent (Ferrous Iron)	23.1		0.9	4.0	mg/L	SM 3500-Fe
pH, Field	6.96				pH Units	SM 4500-H+
Sulfate	31.9		0.2	2.0	mg/L	9056A
Vinyl Chloride	530		3.2	10	ug/L	8260C
1,1-Dichloroethene	6.5	J	5.7	10	ug/L	8260C
Carbon Disulfide	21		2.2	10	ug/L	8260C
Methylene Chloride	220		6.0	10	ug/L	8260C
trans-1,2-Dichloroethene	8.2	J	3.3	10	ug/L	8260C
1,1-Dichloroethane	19		2.0	10	ug/L	8260C
cis-1,2-Dichloroethene	2800	D	7.5	25	ug/L	8260C
1,1,1-Trichloroethane	16		3.6	10	ug/L	8260C
Trichloroethene	63		2.2	10	ug/L	8260C
Ethane	1.2		0.17	1.0	ug/L	RSK 175
Ethene	150		0.56	4.0	ug/L	RSK 175
Methane	60		0.50	1.0	ug/L	RSK 175
Acetic Acid	250		2.0	2.0	mg/L	Organic
Butanoic Acid (Butyric Acid)	28		0.63	4.0	mg/L	Organic
Propionic Acid	32		0.38	2.0	mg/L	Organic

CLIENT ID: BAT-87-01 (1) 180227 **Lab ID: R1801690-002**

Analyte	Results	Flag	MDL	PQL	Units	Method
Alkalinity, Total as CaCO3	547		1.0	2.0	mg/L	SM 2320 B-
Bicarbonate Alkalinity as CaCO3	547		1.0	2.0	mg/L	SM 2320 B-
Carbon Dioxide	532			2.0	mg/L	SM 4500-
Carbon, Total Organic (TOC)	65.7		0.2	4.0	mg/L	SM 5310 C-
Chloride	780		4	60	mg/L	9056A
Iron, Divalent (Ferrous Iron)	0.14		0.03	0.10	mg/L	SM 3500-Fe
pH, Field	7.34				pH Units	SM 4500-H+
Sulfate	18.8		0.2	2.0	mg/L	9056A
Vinyl Chloride	210		0.64	2.0	ug/L	8260C
Acetone	16		2.5	10	ug/L	8260C
Carbon Disulfide	140		0.44	2.0	ug/L	8260C
Methylene Chloride	96		1.2	2.0	ug/L	8260C
trans-1,2-Dichloroethene	4.8		0.66	2.0	ug/L	8260C
1,1-Dichloroethane	14		0.40	2.0	ug/L	8260C
cis-1,2-Dichloroethene	290		0.60	2.0	ug/L	8260C
2-Butanone (MEK)	6.8	J	1.7	10	ug/L	8260C



SAMPLE DETECTION SUMMARY

CLIENT ID: BAT-87-01 (1) 180227 **Lab ID: R1801690-002**

Analyte	Results	Flag	MDL	PQL	Units	Method
Chloroform	0.52	J	0.50	2.0	ug/L	8260C
1,1,1-Trichloroethane	10		0.72	2.0	ug/L	8260C
Trichloroethene	9.3		0.44	2.0	ug/L	8260C
Ethene	18		0.14	1.0	ug/L	RSK 175
Methane	1.9		0.50	1.0	ug/L	RSK 175
Acetic Acid	130		1.0	1.0	mg/L	Organic
Butanoic Acid (Butyric Acid)	5.5		0.32	2.0	mg/L	Organic
Propionic Acid	3.0		0.19	1.0	mg/L	Organic

CLIENT ID: BAT-87-12 (1) 180227 **Lab ID: R1801690-003**

Analyte	Results	Flag	MDL	PQL	Units	Method
Alkalinity, Total as CaCO3	212		1.0	2.0	mg/L	SM 2320 B-
Bicarbonate Alkalinity as CaCO3	212		1.0	2.0	mg/L	SM 2320 B-
Carbon Dioxide	192			2.0	mg/L	SM 4500-
Carbon, Total Organic (TOC)	3.0		0.05	1.0	mg/L	SM 5310 C-
Chloride	429		2	20	mg/L	9056A
pH, Field	7.96				pH Units	SM 4500-H+
Sulfate	312		2	20	mg/L	9056A
Vinyl Chloride	1200		3.2	10	ug/L	8260C
Carbon Disulfide	12		2.2	10	ug/L	8260C
trans-1,2-Dichloroethene	5.7	J	3.3	10	ug/L	8260C
1,1-Dichloroethane	14		2.0	10	ug/L	8260C
cis-1,2-Dichloroethene	700		3.0	10	ug/L	8260C
1,1,1-Trichloroethane	15		3.6	10	ug/L	8260C
Trichloroethene	13		2.2	10	ug/L	8260C
Ethene	160		0.56	4.0	ug/L	RSK 175
Methane	21		0.50	1.0	ug/L	RSK 175

CLIENT ID: BAT-87-20 (1) 180227 **Lab ID: R1801690-004**

Analyte	Results	Flag	MDL	PQL	Units	Method
Alkalinity, Total as CaCO3	218		1.0	2.0	mg/L	SM 2320 B-
Bicarbonate Alkalinity as CaCO3	218		1.0	2.0	mg/L	SM 2320 B-
Carbon Dioxide	197			2.0	mg/L	SM 4500-
Carbon, Total Organic (TOC)	3.5		0.05	1.0	mg/L	SM 5310 C-
Chloride	630		2	20	mg/L	9056A
Iron, Divalent (Ferrous Iron)	0.17		0.03	0.10	mg/L	SM 3500-Fe
pH, Field	7.96				pH Units	SM 4500-H+
Sulfate	338		2	20	mg/L	9056A
Vinyl Chloride	460		1.6	5.0	ug/L	8260C
Carbon Disulfide	6.5		1.1	5.0	ug/L	8260C
trans-1,2-Dichloroethene	3.0	J	1.7	5.0	ug/L	8260C
1,1-Dichloroethane	4.7	J	1.0	5.0	ug/L	8260C



SAMPLE DETECTION SUMMARY

CLIENT ID: BAT-87-20 (1) 180227 **Lab ID: R1801690-004**

Analyte	Results	Flag	MDL	PQL	Units	Method
cis-1,2-Dichloroethene	670		1.5	5.0	ug/L	8260C
1,1,1-Trichloroethane	4.7	J	1.8	5.0	ug/L	8260C
Trichloroethene	13		1.1	5.0	ug/L	8260C
Ethene	61		0.14	1.0	ug/L	RSK 175
Methane	7.0		0.50	1.0	ug/L	RSK 175

CLIENT ID: BAT-87-22 (1) 180227 **Lab ID: R1801690-005**

Analyte	Results	Flag	MDL	PQL	Units	Method
Alkalinity, Total as CaCO3	407		1.0	2.0	mg/L	SM 2320 B-
Bicarbonate Alkalinity as CaCO3	407		1.0	2.0	mg/L	SM 2320 B-
Carbon Dioxide	371			2.0	mg/L	SM 4500-
Carbon, Total Organic (TOC)	4.0		0.05	1.0	mg/L	SM 5310 C-
Chloride	92.4		0.2	2.0	mg/L	9056A
pH, Field	7.81				pH Units	SM 4500-H+
Sulfate	1050		6	60	mg/L	9056A
Vinyl Chloride	780		1.6	5.0	ug/L	8260C
1,1-Dichloroethene	4.7	J	2.9	5.0	ug/L	8260C
Carbon Disulfide	1.6	BJ	1.1	5.0	ug/L	8260C
trans-1,2-Dichloroethene	7.4		1.7	5.0	ug/L	8260C
1,1-Dichloroethane	7.2		1.0	5.0	ug/L	8260C
cis-1,2-Dichloroethene	1800	D	6.0	20	ug/L	8260C
1,1,1-Trichloroethane	2.2	J	1.8	5.0	ug/L	8260C
Trichloroethene	5.6		1.1	5.0	ug/L	8260C
Ethane	3.9		0.17	1.0	ug/L	RSK 175
Ethene	42		0.14	1.0	ug/L	RSK 175
Methane	110		1.0	2.0	ug/L	RSK 175
Acetic Acid	1.1		1.0	1.0	mg/L	Organic

CLIENT ID: BAT-89-12 (1) 180227 **Lab ID: R1801690-006**

Analyte	Results	Flag	MDL	PQL	Units	Method
Alkalinity, Total as CaCO3	308		1.0	2.0	mg/L	SM 2320 B-
Bicarbonate Alkalinity as CaCO3	308		1.0	2.0	mg/L	SM 2320 B-
Carbon Dioxide	278			2.0	mg/L	SM 4500-
Carbon, Total Organic (TOC)	4.7		0.05	1.0	mg/L	SM 5310 C-
Chloride	531		4	60	mg/L	9056A
Iron, Divalent (Ferrous Iron)	0.11		0.03	0.10	mg/L	SM 3500-Fe
pH, Field	7.95				pH Units	SM 4500-H+
Sulfate	822		6	60	mg/L	9056A
Vinyl Chloride	780		1.6	5.0	ug/L	8260C
Acetone	9.9	J	6.2	25	ug/L	8260C
Carbon Disulfide	8.6		1.1	5.0	ug/L	8260C
trans-1,2-Dichloroethene	3.9	J	1.7	5.0	ug/L	8260C



SAMPLE DETECTION SUMMARY

CLIENT ID: BAT-89-12 (1) 180227 **Lab ID: R1801690-006**

Analyte	Results	Flag	MDL	PQL	Units	Method
1,1-Dichloroethane	15		1.0	5.0	ug/L	8260C
cis-1,2-Dichloroethene	880		1.5	5.0	ug/L	8260C
1,1,1-Trichloroethane	17		1.8	5.0	ug/L	8260C
Trichloroethene	30		1.1	5.0	ug/L	8260C
Ethane	3.3		0.17	1.0	ug/L	RSK 175
Ethene	330		1.4	10	ug/L	RSK 175
Methane	31		0.50	1.0	ug/L	RSK 175

CLIENT ID: BAT-DW-12-180227 **Lab ID: R1801690-007**

Analyte	Results	Flag	MDL	PQL	Units	Method
Alkalinity, Total as CaCO3	64.0		1.0	2.0	mg/L	SM 2320 B-
Bicarbonate Alkalinity as CaCO3	64.0		1.0	2.0	mg/L	SM 2320 B-
Carbon Dioxide	56.6			2.0	mg/L	SM 4500-
Carbon, Total Organic (TOC)	2.2		0.05	1.0	mg/L	SM 5310 C-
Chloride	1100		3	40	mg/L	9056A
Iron, Divalent (Ferrous Iron)	0.11		0.03	0.10	mg/L	SM 3500-Fe
Nitrate as Nitrogen	1.1		0.04	1.0	mg/L	9056A
pH, Field	8.70				pH Units	SM 4500-H+
Sulfate	92.1		0.2	2.0	mg/L	9056A
Acetone	1.9	J	1.3	5.0	ug/L	8260C
cis-1,2-Dichloroethene	1.1		0.30	1.0	ug/L	8260C
Trichloroethene	0.70	J	0.22	1.0	ug/L	8260C

CLIENT ID: BAT-89-10 (1) 180227 **Lab ID: R1801690-008**

Analyte	Results	Flag	MDL	PQL	Units	Method
Alkalinity, Total as CaCO3	400		1.0	2.0	mg/L	SM 2320 B-
Bicarbonate Alkalinity as CaCO3	400		1.0	2.0	mg/L	SM 2320 B-
Carbon Dioxide	364			2.0	mg/L	SM 4500-
Carbon, Total Organic (TOC)	48.8		0.2	4.0	mg/L	SM 5310 C-
Chloride	961		4	60	mg/L	9056A
pH, Field	7.82				pH Units	SM 4500-H+
Sulfate	678		6	60	mg/L	9056A
Vinyl Chloride	230		16	50	ug/L	8260C
Carbon Disulfide	45	J	11	50	ug/L	8260C
Methylene Chloride	1600		30	50	ug/L	8260C
cis-1,2-Dichloroethene	1200		15	50	ug/L	8260C
1,1,1-Trichloroethane	23	J	18	50	ug/L	8260C
Trichloroethene	4600		11	50	ug/L	8260C
Ethane	4.0		0.17	1.0	ug/L	RSK 175
Ethene	71		0.14	1.0	ug/L	RSK 175
Methane	10		0.50	1.0	ug/L	RSK 175
Acetic Acid	88		1.0	1.0	mg/L	Organic



SAMPLE DETECTION SUMMARY

CLIENT ID: BAT-89-10 (1) 180227 **Lab ID: R1801690-008**

Analyte	Results	Flag	MDL	PQL	Units	Method
Lactic Acid	1.0		0.14	1.0	mg/L	Organic

CLIENT ID: BAT-DW-11-180227 **Lab ID: R1801690-009**

Analyte	Results	Flag	MDL	PQL	Units	Method
Alkalinity, Total as CaCO3	133		1.0	2.0	mg/L	SM 2320 B-
Bicarbonate Alkalinity as CaCO3	133		1.0	2.0	mg/L	SM 2320 B-
Carbon Dioxide	119			2.0	mg/L	SM 4500-
Carbon, Total Organic (TOC)	6.8		0.05	1.0	mg/L	SM 5310 C-
Chloride	976		3	40	mg/L	9056A
pH, Field	8.13				pH Units	SM 4500-H+
Sulfate	246		1.0	10	mg/L	9056A
Vinyl Chloride	40		0.32	1.0	ug/L	8260C
Acetone	14		1.3	5.0	ug/L	8260C
Carbon Disulfide	0.48	J	0.22	1.0	ug/L	8260C
Methylene Chloride	14		0.60	1.0	ug/L	8260C
1,1-Dichloroethane	2.8		0.20	1.0	ug/L	8260C
cis-1,2-Dichloroethene	31		0.30	1.0	ug/L	8260C
1,1,1-Trichloroethane	5.6		0.36	1.0	ug/L	8260C
Trichloroethene	190		0.22	1.0	ug/L	8260C
Toluene	0.24	J	0.20	1.0	ug/L	8260C
Ethene	1.3		0.14	1.0	ug/L	RSK 175
Methane	2.7		0.50	1.0	ug/L	RSK 175

CLIENT ID: BAT-B-14 (1) 180227 **Lab ID: R1801690-010**

Analyte	Results	Flag	MDL	PQL	Units	Method
Alkalinity, Total as CaCO3	298		1.0	2.0	mg/L	SM 2320 B-
Bicarbonate Alkalinity as CaCO3	298		1.0	2.0	mg/L	SM 2320 B-
Carbon Dioxide	265			2.0	mg/L	SM 4500-
Carbon, Total Organic (TOC)	4.1		0.05	1.0	mg/L	SM 5310 C-
Chloride	141		0.4	6.0	mg/L	9056A
pH, Field	8.23				pH Units	SM 4500-H+
Sulfate	983		6	60	mg/L	9056A
Vinyl Chloride	240	D	0.80	2.5	ug/L	8260C
1,1-Dichloroethene	1.2		0.57	1.0	ug/L	8260C
Acetone	1.4	J	1.3	5.0	ug/L	8260C
Carbon Disulfide	1.1	B	0.22	1.0	ug/L	8260C
trans-1,2-Dichloroethene	2.1		0.33	1.0	ug/L	8260C
1,1-Dichloroethane	22		0.20	1.0	ug/L	8260C
cis-1,2-Dichloroethene	150		0.30	1.0	ug/L	8260C
1,1,1-Trichloroethane	73		0.36	1.0	ug/L	8260C
Trichloroethene	2.5		0.22	1.0	ug/L	8260C
Ethene	7.1		0.14	1.0	ug/L	RSK 175



SAMPLE DETECTION SUMMARY

CLIENT ID: BAT-B-14 (1) 180227 Lab ID: R1801690-010

Analyte	Results	Flag	MDL	PQL	Units	Method
Methane	21		0.50	1.0	ug/L	RSK 175

CLIENT ID: BAT-87-09 (1) 180227 Lab ID: R1801690-011

Analyte	Results	Flag	MDL	PQL	Units	Method
Alkalinity, Total as CaCO3	298		1.0	2.0	mg/L	SM 2320 B-
Bicarbonate Alkalinity as CaCO3	298		1.0	2.0	mg/L	SM 2320 B-
Carbon Dioxide	267			2.0	mg/L	SM 4500-
Carbon, Total Organic (TOC)	3.6		0.05	1.0	mg/L	SM 5310 C-
Chloride	133		0.4	6.0	mg/L	9056A
pH, Field	8.07				pH Units	SM 4500-H+
Sulfate	988		6	60	mg/L	9056A
Vinyl Chloride	190	D	0.64	2.0	ug/L	8260C
1,1-Dichloroethene	1.3		0.57	1.0	ug/L	8260C
Carbon Disulfide	1.1	B	0.22	1.0	ug/L	8260C
trans-1,2-Dichloroethene	1.7		0.33	1.0	ug/L	8260C
1,1-Dichloroethane	19		0.20	1.0	ug/L	8260C
cis-1,2-Dichloroethene	150		0.30	1.0	ug/L	8260C
1,1,1-Trichloroethane	88		0.36	1.0	ug/L	8260C
Trichloroethene	2.1		0.22	1.0	ug/L	8260C
Ethane	1.6		0.17	1.0	ug/L	RSK 175
Ethene	11		0.14	1.0	ug/L	RSK 175
Methane	65		0.50	1.0	ug/L	RSK 175

CLIENT ID: BAT-89-15 (1) 180228 Lab ID: R1801690-012

Analyte	Results	Flag	MDL	PQL	Units	Method
Alkalinity, Total as CaCO3	595		1.0	2.0	mg/L	SM 2320 B-
Bicarbonate Alkalinity as CaCO3	595		1.0	2.0	mg/L	SM 2320 B-
Carbon Dioxide	534			2.0	mg/L	SM 4500-
Carbon, Total Organic (TOC)	83		0.5	10	mg/L	SM 5310 C-
Chloride	83.3		0.2	2.0	mg/L	9056A
Iron, Divalent (Ferrous Iron)	0.14		0.03	0.10	mg/L	SM 3500-Fe
pH, Field	8.06				pH Units	SM 4500-H+
Sulfate	63.3		0.2	2.0	mg/L	9056A
Vinyl Chloride	550		16	50	ug/L	8260C
Carbon Disulfide	49	J	11	50	ug/L	8260C
Methylene Chloride	7700		30	50	ug/L	8260C
cis-1,2-Dichloroethene	640		15	50	ug/L	8260C
Trichloroethene	410		11	50	ug/L	8260C
Ethene	150		0.35	2.5	ug/L	RSK 175
Methane	58		1.3	2.5	ug/L	RSK 175
Acetic Acid	150		1.0	1.0	mg/L	Organic
Butanoic Acid (Butyric Acid)	10		0.32	2.0	mg/L	Organic



SAMPLE DETECTION SUMMARY

CLIENT ID: BAT-89-15 (1) 180228 **Lab ID: R1801690-012**

Analyte	Results	Flag	MDL	PQL	Units	Method
Propionic Acid	4.9		0.19	1.0	mg/L	Organic

CLIENT ID: BAT-DW-10-180228 **Lab ID: R1801690-013**

Analyte	Results	Flag	MDL	PQL	Units	Method
Alkalinity, Total as CaCO3	170		1.0	2.0	mg/L	SM 2320 B-
Bicarbonate Alkalinity as CaCO3	170		1.0	2.0	mg/L	SM 2320 B-
Carbon Dioxide	152			2.0	mg/L	SM 4500-
Carbon, Total Organic (TOC)	54		0.5	10	mg/L	SM 5310 C-
Chloride	31.6		0.2	2.0	mg/L	9056A
Iron, Divalent (Ferrous Iron)	3.1		0.3	1.0	mg/L	SM 3500-Fe
pH, Field	8.21				pH Units	SM 4500-H+
Sulfate	88.0		0.2	2.0	mg/L	9056A
Vinyl Chloride	130		16	50	ug/L	8260C
Methylene Chloride	10000	D	60	100	ug/L	8260C
cis-1,2-Dichloroethene	480		15	50	ug/L	8260C
Trichloroethene	8900		11	50	ug/L	8260C
Ethane	3.7		0.17	1.0	ug/L	RSK 175
Ethene	14		0.14	1.0	ug/L	RSK 175
Methane	47		0.50	1.0	ug/L	RSK 175
Acetic Acid	14		1.0	1.0	mg/L	Organic
Propionic Acid	2.9		0.19	1.0	mg/L	Organic

CLIENT ID: BAT-87-08 (1) 180228 **Lab ID: R1801690-014**

Analyte	Results	Flag	MDL	PQL	Units	Method
Alkalinity, Total as CaCO3	476		1.0	2.0	mg/L	SM 2320 B-
Bicarbonate Alkalinity as CaCO3	476		1.0	2.0	mg/L	SM 2320 B-
Carbon Dioxide	426			2.0	mg/L	SM 4500-
Carbon, Total Organic (TOC)	45.8		0.2	4.0	mg/L	SM 5310 C-
Chloride	16.1		0.2	2.0	mg/L	9056A
Iron, Divalent (Ferrous Iron)	0.16		0.03	0.10	mg/L	SM 3500-Fe
pH, Field	8.18				pH Units	SM 4500-H+
Sulfate	96.1		0.2	2.0	mg/L	9056A
Vinyl Chloride	1200		3.2	10	ug/L	8260C
1,1-Dichloroethene	8.4	J	5.7	10	ug/L	8260C
Carbon Disulfide	12		2.2	10	ug/L	8260C
Methylene Chloride	190		6.0	10	ug/L	8260C
trans-1,2-Dichloroethene	9.0	J	3.3	10	ug/L	8260C
1,1-Dichloroethane	15		2.0	10	ug/L	8260C
cis-1,2-Dichloroethene	1500		3.0	10	ug/L	8260C
1,1,1-Trichloroethane	6.1	J	3.6	10	ug/L	8260C
Trichloroethene	37		2.2	10	ug/L	8260C
Ethene	130		0.56	4.0	ug/L	RSK 175



SAMPLE DETECTION SUMMARY

CLIENT ID: BAT-87-08 (1) 180228 **Lab ID: R1801690-014**

Analyte	Results	Flag	MDL	PQL	Units	Method
Methane	15		2.0	4.0	ug/L	RSK 175
Acetic Acid	94		1.0	1.0	mg/L	Organic

CLIENT ID: BAT-DW-9-180228 **Lab ID: R1801690-015**

Analyte	Results	Flag	MDL	PQL	Units	Method
Alkalinity, Total as CaCO3	168		1.0	2.0	mg/L	SM 2320 B-
Bicarbonate Alkalinity as CaCO3	168		1.0	2.0	mg/L	SM 2320 B-
Carbon Dioxide	150			2.0	mg/L	SM 4500-
Carbon, Total Organic (TOC)	5.9		0.05	1.0	mg/L	SM 5310 C-
Chloride	9.5		0.2	2.0	mg/L	9056A
Nitrate as Nitrogen	5.1		0.04	1.0	mg/L	9056A
pH, Field	8.28				pH Units	SM 4500-H+
Sulfate	78.2		0.2	2.0	mg/L	9056A
Acetone	2.0	J	1.3	5.0	ug/L	8260C
cis-1,2-Dichloroethene	3.7		0.30	1.0	ug/L	8260C
Trichloroethene	15		0.22	1.0	ug/L	8260C

CLIENT ID: BAT-B-10A (1) 180228 **Lab ID: R1801690-016**

Analyte	Results	Flag	MDL	PQL	Units	Method
Alkalinity, Total as CaCO3	537		1.0	2.0	mg/L	SM 2320 B-
Bicarbonate Alkalinity as CaCO3	537		1.0	2.0	mg/L	SM 2320 B-
Carbon Dioxide	475			2.0	mg/L	SM 4500-
Carbon, Total Organic (TOC)	53.5		0.2	4.0	mg/L	SM 5310 C-
Chloride	91.1		0.2	2.0	mg/L	9056A
pH, Field	8.64				pH Units	SM 4500-H+
Sulfate	96.2		0.2	2.0	mg/L	9056A
Vinyl Chloride	440		64	200	ug/L	8260C
1,1-Dichloroethene	310		120	200	ug/L	8260C
Methylene Chloride	2200		120	200	ug/L	8260C
trans-1,2-Dichloroethene	190	J	66	200	ug/L	8260C
1,1-Dichloroethane	370		40	200	ug/L	8260C
cis-1,2-Dichloroethene	65000	D	150	500	ug/L	8260C
1,1,1-Trichloroethane	850		72	200	ug/L	8260C
Trichloroethene	17000		44	200	ug/L	8260C
Ethane	2.3		0.17	1.0	ug/L	RSK 175
Ethene	25		0.14	1.0	ug/L	RSK 175
Methane	66		0.50	1.0	ug/L	RSK 175
Acetic Acid	97		1.0	1.0	mg/L	Organic
Propionic Acid	4.1		0.19	1.0	mg/L	Organic

CLIENT ID: BAT-87-13 (1) 180228 **Lab ID: R1801690-017**

Analyte	Results	Flag	MDL	PQL	Units	Method
Alkalinity, Total as CaCO3	941		1.0	2.0	mg/L	SM 2320 B-



SAMPLE DETECTION SUMMARY

CLIENT ID: BAT-87-13 (1) 180228 **Lab ID: R1801690-017**

Analyte	Results	Flag	MDL	PQL	Units	Method
Bicarbonate Alkalinity as CaCO3	941		1.0	2.0	mg/L	SM 2320 B-
Carbon Dioxide	853			2.0	mg/L	SM 4500-
Carbon, Total Organic (TOC)	320		5	100	mg/L	SM 5310 C-
Chloride	321		2	20	mg/L	9056A
pH, Field	7.87				pH Units	SM 4500-H+
Sulfate	612		2	20	mg/L	9056A
Vinyl Chloride	2200	D	320	1000	ug/L	8260C
Methylene Chloride	87000	D	600	1000	ug/L	8260C
1,1-Dichloroethane	360	DJ	200	1000	ug/L	8260C
cis-1,2-Dichloroethene	38000	D	300	1000	ug/L	8260C
1,1,1-Trichloroethane	1600	D	360	1000	ug/L	8260C
Trichloroethene	65000	D	220	1000	ug/L	8260C
Ethane	7.5		0.41	2.5	ug/L	RSK 175
Ethene	140		0.35	2.5	ug/L	RSK 175
Methane	130		1.3	2.5	ug/L	RSK 175
Acetic Acid	490		5.0	5.0	mg/L	Organic
Lactic Acid	8.2		0.67	5.0	mg/L	Organic
Propionic Acid	57		0.94	5.0	mg/L	Organic

CLIENT ID: BAT-87-17 (1) 180228 **Lab ID: R1801690-018**

Analyte	Results	Flag	MDL	PQL	Units	Method
Alkalinity, Total as CaCO3	292		1.0	2.0	mg/L	SM 2320 B-
Bicarbonate Alkalinity as CaCO3	292		1.0	2.0	mg/L	SM 2320 B-
Carbon Dioxide	258			2.0	mg/L	SM 4500-
Carbon, Total Organic (TOC)	4.3		0.05	1.0	mg/L	SM 5310 C-
Chloride	157		0.4	6.0	mg/L	9056A
Iron, Divalent (Ferrous Iron)	0.17		0.03	0.10	mg/L	SM 3500-Fe
pH, Field	8.50				pH Units	SM 4500-H+
Sulfate	1060		6	60	mg/L	9056A
Vinyl Chloride	340	D	0.80	2.5	ug/L	8260C
1,1-Dichloroethene	1.3		0.57	1.0	ug/L	8260C
Carbon Disulfide	1.2	B	0.22	1.0	ug/L	8260C
trans-1,2-Dichloroethene	2.2		0.33	1.0	ug/L	8260C
1,1-Dichloroethane	25		0.20	1.0	ug/L	8260C
cis-1,2-Dichloroethene	120		0.30	1.0	ug/L	8260C
1,1,1-Trichloroethane	100		0.36	1.0	ug/L	8260C
Trichloroethene	3.2		0.22	1.0	ug/L	8260C
Ethane	1.5		0.17	1.0	ug/L	RSK 175
Ethene	12		0.14	1.0	ug/L	RSK 175
Methane	70		0.50	1.0	ug/L	RSK 175



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
Project: Textron Injection/631232612

Service Request:R1801690

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R1801690-001	BAT-87-02 (1) 180227	2/27/2018	0935
R1801690-002	BAT-87-01 (1) 180227	2/27/2018	1010
R1801690-003	BAT-87-12 (1) 180227	2/27/2018	1035
R1801690-004	BAT-87-20 (1) 180227	2/27/2018	1105
R1801690-005	BAT-87-22 (1) 180227	2/27/2018	1130
R1801690-006	BAT-89-12 (1) 180227	2/27/2018	1250
R1801690-007	BAT-DW-12-180227	2/27/2018	1305
R1801690-008	BAT-89-10 (1) 180227	2/27/2018	1330
R1801690-009	BAT-DW-11-180227	2/27/2018	1340
R1801690-010	BAT-B-14 (1) 180227	2/27/2018	1410
R1801690-011	BAT-87-09 (1) 180227	2/27/2018	1440
R1801690-012	BAT-89-15 (1) 180228	2/28/2018	0940
R1801690-013	BAT-DW-10-180228	2/28/2018	0955
R1801690-014	BAT-87-08 (1) 180228	2/28/2018	1030
R1801690-015	BAT-DW-9-180228	2/28/2018	1040
R1801690-016	BAT-B-10A (1) 180228	2/28/2018	1110
R1801690-017	BAT-87-13 (1) 180228	2/28/2018	1140
R1801690-018	BAT-87-17 (1) 180228	2/28/2018	1210
R1801690-019	Trip blank	2/28/2018	



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

49005

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 INJECTION		Project Number 631232612		ANALYSIS REQUESTED (Include Method Number and Container Preservative)																														
Project Manager CECELIA CAMPBELL BYERS		Report CC		PRESERVATIVE															NUMBER OF CONTAINERS GC/MS VOAs • 8260 • 824 • CLP • 8270 • 825 GC VOAs • 8021 • 801/802 PESTICIDES • 8081 • 608 PCBs • 8082 • 608 METALS, TOTAL (List in comments below) METALS, DISSOLVED (List in comments below) TDC 5310 C 6015 VOLATILES ETHANE - ETHANE METH CO2 9056 A															
Company/Address APTIM																																		
13 BRITISH AMERICAN BLVD.																																		
LATHAM, NY 12110																																		
Phone # 518-783-1996		Email CECELIA.BYERS@APTIM.COM																																
Sampler's Signature Kevin Cronin		Sampler's Printed Name KEVIN CROININ																																
CLIENT SAMPLE ID				FOR OFFICE USE ONLY LAB ID		SAMPLING DATE			TIME		MATRIX		PRESERVATIVE															Preservative Key 0. NONE 1. HCL 2. HNO3 3. H2SO4 4. NaOH 5. Zn. Acetate 6. MeOH 7. NaHSO4 8. Other _____ REMARKS/ ALTERNATE DESCRIPTION pHs:						
BAT-87-02(1)180227						2/27/18			0935		GW		X X X X X X																6.96					
BAT-87-01(1)180227									1010																			7.34						
BAT-87-12(1)180227									1035																			7.96						
BAT-87-20(1)180227									1105																			7.96						
BAT-87-22(1)180227									1130																			7.81						
BAT-89-12(1)180227									1250																			7.95						
BAT-DW-12-180227									1305																			8.70						
BAT-89-10(1)180227									1330																			7.82						
BAT-DW-11-180227									1340																			8.13						
BAT-B-14(1)180227									1410																			8.23						
BAT-87-09(1)180227									1440																			8.07						
SPECIAL INSTRUCTIONS/COMMENTS																																		
Metals R1801690 APTIM, Inc Textron Injection												P.O. # 1230175								TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) 1 day ___ 2 day ___ 3 day ___ 4 day ___ 5 day ___					REPORT REQUIREMENTS <input checked="" type="checkbox"/> 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 ___ Y:is ___ No					INVOICE INFORMATION PO # BILL TO:				
See QAPP <input type="checkbox"/>												REQUESTED REPORT DATE <u>STANDARD</u>																						
STATE WHERE SAMPLES WERE COLLECTED																																		
RELINQUISHED BY					RECEIVED BY					RELINQUISHED BY					RECEIVED BY					RELINQUISHED BY					RECEIVED BY									
Signature Kevin Cronin					Signature Rachel Cronin					Signature Rachel Cronin					Signature Samuel Ward					Signature					Signature									
Printed Name Kevin Cronin					Printed Name Rachel Cronin					Printed Name Rachel Cronin					Printed Name Samuel Ward					Printed Name					Printed Name									
Firm APTIM					Firm ALS					Firm ALS					Firm ALS					Firm					Firm									
Date/Time 02/27/2018					Date/Time 2/27/18					Date/Time 2/27/18					Date/Time 2/27/18					Date/Time 2/27/18					Date/Time					Date/Time				



Cooler Receipt and Preservation Check Form

R1801690

APTIM, Inc
Tetron Injection

5

Pg. 1 of 2

Project/Client APTIM Folder Number _____

Cooler received on 2/27/18 by: DLW

COURIER: ALS UPS FEDEX VELOCITY CLIENT



1	Were Custody seals on outside of cooler?	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
2	Custody papers properly completed (ink, signed)?	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
3	Did all bottles arrive in good condition (unbroken)?	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
4	Circle: Wet Ice Dry Ice Gel packs present?	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>

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

8. Temperature Readings Date: 2/27/18 Time: 1721 ID: IR#7 IR#9 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>5.5</u>	<u>5.1</u>					
Correction Factor (°C)	<u>±0.0</u>	<u>±0.0</u>					
Corrected Temp (°C)	<u>5.5</u>	<u>5.1</u>					
Temp from: Type of bottle							
Within 0-6°C?	<input checked="" type="checkbox"/> N	<input checked="" type="checkbox"/> 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 DLW on 2/27/18 at 1721
5035 samples placed in storage location: _____ by _____ on _____ at _____

Cooler Breakdown: Date: 2/1/18 Time: 9:40 by: A. MOSES

- 9. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
- 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
- 13. Air Samples: Cassettes / Tubes Intact _____ Canisters Pressurized _____ Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
≤2		HNO ₃								
≤2	<u>201817</u>	H ₂ SO ₄	<input checked="" type="checkbox"/>		<u>185443</u>	<u>2/19</u>				
<4		NaHSO ₄								
Residual Chlorine (-)		For CN Phenol and 522			If +, contact PM to add Na ₂ S ₂ O ₃ (CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃	-	-						
		Zn Acetate	-	-						
		HCl	**	**						

**Not to be tested before analysis – pH tested and recorded by VOAs on a separate worksheet

Bottle lot numbers: 7-249-002, 101617-1 BULK, 112017-2AAC

Explain all Discrepancies/ Other Comments:

- H₃PO₄ 185422 EXP 01/19

CLRES	BULK
DO	FLDT
HPROD	HGFB
HTR	LL3541
PH	SUB
SO3	MARRS
<u>ALS</u>	REV

Labels secondary reviewed by: _____

PC Secondary Review: AMA 2/2/18 *significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

49006

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 INJECTION		Project Number 631232612		ANALYSIS REQUESTED (Include Method Number and Container Preservative)												
Project Manager CECELIA CAMPBELL BYERS		Report CC		PRESERVATIVE 1												
Company/Address APTIM 13 BRITISH AMERICAN BLVD. LATHAM, NY 12110		Email CECELIA.BYERS@APTIM.COM		NUMBER OF CONTAINERS	GC/MS VOA's • 8260 • 824 • CLP • 8270 • 825	GC/MS SVOA's • 8021 • 601/602	PESTICIDES • 8081 • 608	PCBs • 8082 • 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	TOC 5310C	VOLATILE ETHYLENE ACIDS	ETHENE-ETHANE-METH CO2	9056A	Preservative Key 0. NONE 1. HCL 2. HNO3 3. H2SO4 4. NaOH 5. Zn. Acetate 6. MeOH 7. NaHSO4 8. Other _____	
Phone # 518-763-1996		Sampler's Printed Name KEVIN CRONIN													REMARKS/ ALTERNATE DESCRIPTION	
Sample's Signature <i>Kevin Cronin</i>		Sampler's Printed Name KEVIN CRONIN														
CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE TIME		MATRIX												
BAT-89-15(1)180228		2/28/18	0940	GW	10	X					X	X	X	X	X	
BAT-DW-10-180228			0955													* 8.21
BAT-87-08(1)180228			1030													6.18
BAT-DW-9-180228			1040													8.28
BAT-B-10A(1)180228			1110													8.64
BAT-87-13(1)180228			1140													* 7.87
BAT-87-17(1)180228			1210													6.50
SPECIAL INSTRUCTIONS/COMMENTS Metals * INJECTION PRODUCT EVIDENT R1801690 5 APTIM, Inc Textron Injection 																
TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) 1 day ___ 2 day ___ 3 day ___ 4 day ___ 5 day ___					REPORT REQUIREMENTS <input checked="" type="checkbox"/> 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					INVOICE INFORMATION PO # BILL TO:						
STATE WHERE SAMPLES WERE COLLECTED																
RELINQUISHED BY				RECEIVED BY				RELINQUISHED BY				RECEIVED BY				
Signature <i>Kevin Cronin</i>				Signature <i>Bob Crisatan</i>				Signature <i>Bob Crisatan</i>				Signature <i>Carol Ward</i>				
Printed Name KEVIN CRONIN				Printed Name BOB CRISATAN				Printed Name BOB CRISATAN				Printed Name CAROL WARD				
Firm APTIM				Firm ALS				Firm ALS				Firm ALS				
Date/Time 2/28/18 1215				Date/Time 2/28/18 1215				Date/Time 2/28/18 1700				Date/Time 2/28/18/1440				



Cooler Receipt and Preservation Check Form

R1801690

5

APTIM, Inc
Textron Injection



Pa. 2012

Project/Client APTIM Folder Number _____

Cooler received on 2/28/18 by: sh

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
2	Custody papers properly completed (ink, signed)?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
3	Did all bottles arrive in good condition (unbroken)?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
4	Circle: <u>Wet Ice</u> Dry Ice Gel packs present?	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N

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

8. Temperature Readings Date: 2/28/18 Time: 1458 ID: IR#7 IR#9 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>8.5</u>	<u>5.7</u>						
Correction Factor (°C)	<u>±0.0</u>	<u>±0.0</u>						
Corrected Temp (°C)	<u>8.5</u>	<u>5.7</u>						
Temp from: Type of bottle								
Within 0-6°C?	Y <input checked="" type="checkbox"/> N	<input checked="" type="checkbox"/> 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	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: Rm 2 by sh on 2/28/18 at 1458
5035 samples placed in storage location: _____ by _____ on _____ at _____

Cooler Breakdown: Date: 3/1/18 Time: 9:46 by: A. Moses

- 9. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
- 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
- 13. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated N/A N/A

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
≤2		HNO ₃								
≤2	<u>201817</u>	H ₂ SO ₄	<input checked="" type="checkbox"/>		<u>185993</u>	<u>2/19</u>				
<4		NaHSO ₄								
Residual Chlorine (-)		For CN Phenol and 522			If +, contact PM to add Na ₂ S ₂ O ₃ (CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃	-	-						
		ZnAcetate	-	-						
		HCl	**	**						

**Not to be tested before analysis – pH tested and recorded by VOAs on a separate worksheet

Bottle lot numbers: 7-249-002, 101617-1BMC, 112017-2AA0

Explain all Discrepancies/ Other Comments:

- H₃PO₄ 185422 Exp 01/19

CLRES	BULK
DO	FLDT
HPROD	HGFB
HTR	LL3541
PH	SUB
SO3	MARRS
<u>ALS</u>	REV

Labels secondary reviewed by: _____

PC Secondary Review: sh 3/2/18

*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

<p>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.</p> <p>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/Aroclors).</p> <p>B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.</p> <p>E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.</p> <p>E Organics- Concentration has exceeded the calibration range for that specific analysis.</p> <p>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.</p> <p>* Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.</p> <p>H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.</p> <p># Spike was diluted out.</p>	<p>+ Correlation coefficient for MSA is <0.995.</p> <p>N Inorganics- Matrix spike recovery was outside laboratory limits.</p> <p>N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.</p> <p>S Concentration has been determined using Method of Standard Additions (MSA).</p> <p>W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.</p> <p>P Concentration >40% difference between the two GC columns.</p> <p>C Confirmed by GC/MS</p> <p>Q DoD reports: indicates a pesticide/Aroclor is not confirmed ($\times 100\%$ Difference between two GC columns).</p> <p>X See Case Narrative for discussion.</p> <p>MRL Method Reporting Limit. Also known as: LOQ Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.</p> <p>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).</p> <p>LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.</p> <p>ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.</p>
--	---



Rochester Lab ID # for State Certifications¹

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID #
Delaware Approved	New Jersey ID # NY004	294100 A/B
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 laboratory's 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
Project: Textron Injection/631232612

Service Request: R1801690

Non-Certified Analytes

Certifying Agency: New York Department of Health

Method	Matrix	Analyte
Organic Acids	Water	Acetic Acid
Organic Acids	Water	Butanoic Acid (Butyric Acid)
Organic Acids	Water	Lactic Acid
Organic Acids	Water	Propionic Acid
Organic Acids	Water	Pyruvic Acid
SM 3500-Fe B.4.c	Water	Iron, Divalent (Ferrous Iron)
SM 4500-CO2 D	Water	Carbon Dioxide
SM 4500-H+ B	Water	pH, Field

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: APTIM, Inc
Project: Textron Injection/631232612

Service Request: R1801690

Sample Name: BAT-87-02 (1) 180227
Lab Code: R1801690-001
Sample Matrix: Water

Date Collected: 02/27/18
Date Received: 02/27/18

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER
9056A		AMOSSES
9056A		CWOODS
Organic Acids		BALLGEIER
Organic Acids		JMISIUREWICZ
RSK 175		AMOSSES
SM 2320 B-1997(2011)		CWOODS
SM 3500-Fe B.4.c		MROGERSON
SM 4500-CO2 D		CWOODS
SM 4500-H+ B		JJANSON
SM 5310 C-2000(2011)		CWOODS

Sample Name: BAT-87-01 (1) 180227
Lab Code: R1801690-002
Sample Matrix: Water

Date Collected: 02/27/18
Date Received: 02/27/18

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST
9056A		CWOODS
Organic Acids		BALLGEIER
Organic Acids		JMISIUREWICZ
RSK 175		AMOSSES
SM 2320 B-1997(2011)		CWOODS
SM 3500-Fe B.4.c		MROGERSON
SM 4500-CO2 D		CWOODS
SM 4500-H+ B		JJANSON
SM 5310 C-2000(2011)		CWOODS

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: APTIM, Inc
Project: Textron Injection/631232612

Service Request: R1801690

Sample Name: BAT-87-12 (1) 180227
Lab Code: R1801690-003
Sample Matrix: Water

Date Collected: 02/27/18
Date Received: 02/27/18

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER
9056A		AMOSES
9056A		CWOODS
Organic Acids		BALLGEIER
RSK 175		AMOSES
SM 2320 B-1997(2011)		CWOODS
SM 3500-Fe B.4.c		MROGERSON
SM 4500-CO2 D		CWOODS
SM 4500-H+ B		JJANSON
SM 5310 C-2000(2011)		CWOODS

Sample Name: BAT-87-20 (1) 180227
Lab Code: R1801690-004
Sample Matrix: Water

Date Collected: 02/27/18
Date Received: 02/27/18

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER
9056A		AMOSES
9056A		CWOODS
Organic Acids		BALLGEIER
RSK 175		AMOSES
SM 2320 B-1997(2011)		CWOODS
SM 3500-Fe B.4.c		MROGERSON
SM 4500-CO2 D		CWOODS
SM 4500-H+ B		JJANSON
SM 5310 C-2000(2011)		CWOODS

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Analyst Summary report

Client: APTIM, Inc
Project: Textron Injection/631232612

Service Request: R1801690

Sample Name: BAT-87-22 (1) 180227
Lab Code: R1801690-005
Sample Matrix: Water

Date Collected: 02/27/18
Date Received: 02/27/18

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER
9056A		CWOODS
Organic Acids		BALLGEIER
RSK 175		AMOSSES
SM 2320 B-1997(2011)		CWOODS
SM 3500-Fe B.4.c		MROGERSON
SM 4500-CO2 D		CWOODS
SM 4500-H+ B		JJANSON
SM 5310 C-2000(2011)		CWOODS

Sample Name: BAT-89-12 (1) 180227
Lab Code: R1801690-006
Sample Matrix: Water

Date Collected: 02/27/18
Date Received: 02/27/18

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER
9056A		CWOODS
Organic Acids		BALLGEIER
RSK 175		AMOSSES
SM 2320 B-1997(2011)		CWOODS
SM 3500-Fe B.4.c		MROGERSON
SM 4500-CO2 D		CWOODS
SM 4500-H+ B		JJANSON
SM 5310 C-2000(2011)		CWOODS

Sample Name: BAT-DW-12-180227
Lab Code: R1801690-007
Sample Matrix: Water

Date Collected: 02/27/18
Date Received: 02/27/18

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER
9056A		AMOSSES

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Analyst Summary report

Client: APTIM, Inc
Project: Textron Injection/631232612

Service Request: R1801690

Sample Name: BAT-DW-12-180227
Lab Code: R1801690-007
Sample Matrix: Water

Date Collected: 02/27/18
Date Received: 02/27/18

Analysis Method	Extracted/Digested By	Analyzed By
9056A		CWOODS
Organic Acids		BALLGEIER
RSK 175		AMOSSES
SM 2320 B-1997(2011)		CWOODS
SM 3500-Fe B.4.c		MROGERSON
SM 4500-CO2 D		CWOODS
SM 4500-H+ B		JJANSON
SM 5310 C-2000(2011)		CWOODS

Sample Name: BAT-89-10 (1) 180227
Lab Code: R1801690-008
Sample Matrix: Water

Date Collected: 02/27/18
Date Received: 02/27/18

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER
9056A		CWOODS
Organic Acids		BALLGEIER
RSK 175		AMOSSES
SM 2320 B-1997(2011)		CWOODS
SM 3500-Fe B.4.c		MROGERSON
SM 4500-CO2 D		CWOODS
SM 4500-H+ B		JJANSON
SM 5310 C-2000(2011)		CWOODS

Sample Name: BAT-DW-11-180227
Lab Code: R1801690-009
Sample Matrix: Water

Date Collected: 02/27/18
Date Received: 02/27/18

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST
9056A		AMOSSES
9056A		CWOODS

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Analyst Summary report

Client: APTIM, Inc
Project: Textron Injection/631232612

Service Request: R1801690

Sample Name: BAT-DW-11-180227
Lab Code: R1801690-009
Sample Matrix: Water

Date Collected: 02/27/18
Date Received: 02/27/18

Analysis Method	Extracted/Digested By	Analyzed By
Organic Acids		BALLGEIER
RSK 175		AMOSES
SM 2320 B-1997(2011)		CWOODS
SM 3500-Fe B.4.c		MROGERSON
SM 4500-CO2 D		CWOODS
SM 4500-H+ B		JJANSON
SM 5310 C-2000(2011)		CWOODS

Sample Name: BAT-B-14 (1) 180227
Lab Code: R1801690-010
Sample Matrix: Water

Date Collected: 02/27/18
Date Received: 02/27/18

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER
9056A		CWOODS
Organic Acids		BALLGEIER
RSK 175		AMOSES
SM 2320 B-1997(2011)		CWOODS
SM 3500-Fe B.4.c		MROGERSON
SM 4500-CO2 D		CWOODS
SM 4500-H+ B		JJANSON
SM 5310 C-2000(2011)		CWOODS

Sample Name: BAT-87-09 (1) 180227
Lab Code: R1801690-011
Sample Matrix: Water

Date Collected: 02/27/18
Date Received: 02/27/18

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER
9056A		CWOODS
Organic Acids		BALLGEIER
RSK 175		AMOSES

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Analyst Summary report

Client: APTIM, Inc
Project: Textron Injection/631232612

Service Request: R1801690

Sample Name: BAT-87-09 (1) 180227
Lab Code: R1801690-011
Sample Matrix: Water

Date Collected: 02/27/18
Date Received: 02/27/18

Analysis Method	Extracted/Digested By	Analyzed By
SM 2320 B-1997(2011)		CWOODS
SM 3500-Fe B.4.c		MROGERSON
SM 4500-CO2 D		CWOODS
SM 4500-H+ B		JJANSON
SM 5310 C-2000(2011)		CWOODS

Sample Name: BAT-89-15 (1) 180228
Lab Code: R1801690-012
Sample Matrix: Water

Date Collected: 02/28/18
Date Received: 02/28/18

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER
9056A		CWOODS
Organic Acids		BALLGEIER
Organic Acids		JMISIUREWICZ
RSK 175		AMOSSES
SM 2320 B-1997(2011)		CWOODS
SM 3500-Fe B.4.c		MROGERSON
SM 4500-CO2 D		CWOODS
SM 4500-H+ B		JJANSON
SM 5310 C-2000(2011)		CWOODS

Sample Name: BAT-DW-10-180228
Lab Code: R1801690-013
Sample Matrix: Water

Date Collected: 02/28/18
Date Received: 02/28/18

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER
9056A		CWOODS
Organic Acids		BALLGEIER
Organic Acids		JMISIUREWICZ
RSK 175		AMOSSES

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Analyst Summary report

Client: APTIM, Inc
Project: Textron Injection/631232612

Service Request: R1801690

Sample Name: BAT-DW-10-180228
Lab Code: R1801690-013
Sample Matrix: Water

Date Collected: 02/28/18
Date Received: 02/28/18

Analysis Method	Extracted/Digested By	Analyzed By
SM 2320 B-1997(2011)		CWOODS
SM 3500-Fe B.4.c		MROGERSON
SM 4500-CO2 D		CWOODS
SM 4500-H+ B		JJANSON
SM 5310 C-2000(2011)		CWOODS

Sample Name: BAT-87-08 (1) 180228
Lab Code: R1801690-014
Sample Matrix: Water

Date Collected: 02/28/18
Date Received: 02/28/18

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER
9056A		CWOODS
Organic Acids		BALLGEIER
RSK 175		AMOSSES
SM 2320 B-1997(2011)		CWOODS
SM 3500-Fe B.4.c		MROGERSON
SM 4500-CO2 D		CWOODS
SM 4500-H+ B		JJANSON
SM 5310 C-2000(2011)		CWOODS

Sample Name: BAT-DW-9-180228
Lab Code: R1801690-015
Sample Matrix: Water

Date Collected: 02/28/18
Date Received: 02/28/18

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER
9056A		CWOODS
Organic Acids		BALLGEIER
RSK 175		AMOSSES
SM 2320 B-1997(2011)		CWOODS
SM 3500-Fe B.4.c		MROGERSON

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Analyst Summary report

Client: APTIM, Inc
Project: Textron Injection/631232612

Service Request: R1801690

Sample Name: BAT-DW-9-180228
Lab Code: R1801690-015
Sample Matrix: Water

Date Collected: 02/28/18
Date Received: 02/28/18

Analysis Method

SM 4500-CO2 D
SM 4500-H+ B
SM 5310 C-2000(2011)

Extracted/Digested By

Analyzed By

CWOODS
JJANSON
CWOODS

Sample Name: BAT-B-10A (1) 180228
Lab Code: R1801690-016
Sample Matrix: Water

Date Collected: 02/28/18
Date Received: 02/28/18

Analysis Method

8260C
9056A
Organic Acids
Organic Acids
RSK 175
SM 2320 B-1997(2011)
SM 3500-Fe B.4.c
SM 4500-CO2 D
SM 4500-H+ B
SM 5310 C-2000(2011)

Extracted/Digested By

Analyzed By

FNAEGLER
CWOODS
BALLGEIER
JMISIUREWICZ
AMOSSES
CWOODS
MROGERSON
CWOODS
JJANSON
CWOODS

Sample Name: BAT-87-13 (1) 180228
Lab Code: R1801690-017
Sample Matrix: Water

Date Collected: 02/28/18
Date Received: 02/28/18

Analysis Method

8260C
9056A
Organic Acids
Organic Acids
RSK 175
SM 2320 B-1997(2011)
SM 3500-Fe B.4.c

Extracted/Digested By

Analyzed By

FNAEGLER
CWOODS
BALLGEIER
JMISIUREWICZ
AMOSSES
CWOODS
MROGERSON

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Analyst Summary report

Client: APTIM, Inc
Project: Textron Injection/631232612

Service Request: R1801690

Sample Name: BAT-87-13 (1) 180228
Lab Code: R1801690-017
Sample Matrix: Water

Date Collected: 02/28/18
Date Received: 02/28/18

Analysis Method	Extracted/Digested By	Analyzed By
SM 4500-CO2 D		CWOODS
SM 4500-H+ B		JJANSON
SM 5310 C-2000(2011)		CWOODS

Sample Name: BAT-87-17 (1) 180228
Lab Code: R1801690-018
Sample Matrix: Water

Date Collected: 02/28/18
Date Received: 02/28/18

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER
9056A		CWOODS
Organic Acids		BALLGEIER
RSK 175		AMOSSES
SM 2320 B-1997(2011)		CWOODS
SM 3500-Fe B.4.c		MROGERSON
SM 4500-CO2 D		CWOODS
SM 4500-H+ B		JJANSON
SM 5310 C-2000(2011)		CWOODS

Sample Name: Trip blank
Lab Code: R1801690-019
Sample Matrix: Water

Date Collected: 02/28/18
Date Received: 03/1/18

Analysis Method	Extracted/Digested By	Analyzed By
8260C		FNAEGLER



INORGANIC PREPARATION METHODS

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
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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/27/18 09:35
Date Received: 02/27/18 17:10

Sample Name: BAT-87-02 (1) 180227
Lab Code: R1801690-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	10 U	10	2.1	10	03/02/18 15:04	
Vinyl Chloride	530	10	3.2	10	03/02/18 15:04	
Chloroethane	10 U	10	2.4	10	03/02/18 15:04	
Bromomethane	10 U	10	2.9	10	03/02/18 15:04	
1,1-Dichloroethene	6.5 J	10	5.7	10	03/02/18 15:04	
Acetone	50 U	50	13	10	03/02/18 15:04	
Carbon Disulfide	21	10	2.2	10	03/02/18 15:04	
Methylene Chloride	220	10	6.0	10	03/02/18 15:04	
trans-1,2-Dichloroethene	8.2 J	10	3.3	10	03/02/18 15:04	
1,1-Dichloroethane	19	10	2.0	10	03/02/18 15:04	
cis-1,2-Dichloroethene	2800 D	25	7.5	25	03/05/18 17:24	
2-Butanone (MEK)	50 U	50	8.1	10	03/02/18 15:04	
Chloroform	10 U	10	2.5	10	03/02/18 15:04	
1,1,1-Trichloroethane	16	10	3.6	10	03/02/18 15:04	
Carbon Tetrachloride	10 U	10	4.5	10	03/02/18 15:04	
Benzene	10 U	10	2.0	10	03/02/18 15:04	
1,2-Dichloroethane	10 U	10	3.6	10	03/02/18 15:04	
Trichloroethene	63	10	2.2	10	03/02/18 15:04	
1,2-Dichloropropane	10 U	10	2.0	10	03/02/18 15:04	
Bromodichloromethane	10 U	10	3.2	10	03/02/18 15:04	
cis-1,3-Dichloropropene	10 U	10	2.4	10	03/02/18 15:04	
4-Methyl-2-pentanone (MIBK)	50 U	50	6.7	10	03/02/18 15:04	
Toluene	10 U	10	2.0	10	03/02/18 15:04	
trans-1,3-Dichloropropene	10 U	10	2.0	10	03/02/18 15:04	
1,1,2-Trichloroethane	10 U	10	3.4	10	03/02/18 15:04	
Tetrachloroethene	10 U	10	3.0	10	03/02/18 15:04	
2-Hexanone	50 U	50	17	10	03/02/18 15:04	
Dibromochloromethane	10 U	10	3.1	10	03/02/18 15:04	
Chlorobenzene	10 U	10	2.9	10	03/02/18 15:04	
Ethylbenzene	10 U	10	2.0	10	03/02/18 15:04	
m,p-Xylenes	20 U	20	3.3	10	03/02/18 15:04	
o-Xylene	10 U	10	2.0	10	03/02/18 15:04	
Styrene	10 U	10	2.0	10	03/02/18 15:04	
Bromoform	10 U	10	4.2	10	03/02/18 15:04	
1,1,2,2-Tetrachloroethane	10 U	10	2.5	10	03/02/18 15:04	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-87-02 (1) 180227
Lab Code: R1801690-001

Service Request: R1801690
Date Collected: 02/27/18 09:35
Date Received: 02/27/18 17:10
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	100	85 - 122	03/02/18 15:04	
Toluene-d8	102	87 - 121	03/02/18 15:04	
Dibromofluoromethane	99	89 - 119	03/02/18 15:04	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/27/18 10:10
Date Received: 02/27/18 17:10

Sample Name: BAT-87-01 (1) 180227
Lab Code: R1801690-002

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	2.0 U	2.0	0.42	2	03/06/18 14:22	
Vinyl Chloride	210	2.0	0.64	2	03/06/18 14:22	
Chloroethane	2.0 U	2.0	0.48	2	03/06/18 14:22	
Bromomethane	2.0 U	2.0	0.58	2	03/06/18 14:22	
1,1-Dichloroethene	2.0 U	2.0	1.2	2	03/06/18 14:22	
Acetone	16	10	2.5	2	03/06/18 14:22	
Carbon Disulfide	140	2.0	0.44	2	03/06/18 14:22	
Methylene Chloride	96	2.0	1.2	2	03/06/18 14:22	
trans-1,2-Dichloroethene	4.8	2.0	0.66	2	03/06/18 14:22	
1,1-Dichloroethane	14	2.0	0.40	2	03/06/18 14:22	
cis-1,2-Dichloroethene	290	2.0	0.60	2	03/06/18 14:22	
2-Butanone (MEK)	6.8 J	10	1.7	2	03/06/18 14:22	
Chloroform	0.52 J	2.0	0.50	2	03/06/18 14:22	
1,1,1-Trichloroethane	10	2.0	0.72	2	03/06/18 14:22	
Carbon Tetrachloride	2.0 U	2.0	0.90	2	03/06/18 14:22	
Benzene	2.0 U	2.0	0.40	2	03/06/18 14:22	
1,2-Dichloroethane	2.0 U	2.0	0.72	2	03/06/18 14:22	
Trichloroethene	9.3	2.0	0.44	2	03/06/18 14:22	
1,2-Dichloropropane	2.0 U	2.0	0.40	2	03/06/18 14:22	
Bromodichloromethane	2.0 U	2.0	0.64	2	03/06/18 14:22	
cis-1,3-Dichloropropene	2.0 U	2.0	0.48	2	03/06/18 14:22	
4-Methyl-2-pentanone (MIBK)	10 U	10	1.4	2	03/06/18 14:22	
Toluene	2.0 U	2.0	0.40	2	03/06/18 14:22	
trans-1,3-Dichloropropene	2.0 U	2.0	0.40	2	03/06/18 14:22	
1,1,2-Trichloroethane	2.0 U	2.0	0.68	2	03/06/18 14:22	
Tetrachloroethene	2.0 U	2.0	0.60	2	03/06/18 14:22	
2-Hexanone	10 U	10	3.4	2	03/06/18 14:22	
Dibromochloromethane	2.0 U	2.0	0.62	2	03/06/18 14:22	
Chlorobenzene	2.0 U	2.0	0.58	2	03/06/18 14:22	
Ethylbenzene	2.0 U	2.0	0.40	2	03/06/18 14:22	
m,p-Xylenes	4.0 U	4.0	0.66	2	03/06/18 14:22	
o-Xylene	2.0 U	2.0	0.40	2	03/06/18 14:22	
Styrene	2.0 U	2.0	0.40	2	03/06/18 14:22	
Bromoform	2.0 U	2.0	0.84	2	03/06/18 14:22	
1,1,2,2-Tetrachloroethane	2.0 U	2.0	0.50	2	03/06/18 14:22	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/27/18 10:10
Date Received: 02/27/18 17:10

Sample Name: BAT-87-01 (1) 180227
Lab Code: R1801690-002

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	03/06/18 14:22	
Toluene-d8	101	87 - 121	03/06/18 14:22	
Dibromofluoromethane	99	89 - 119	03/06/18 14:22	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/27/18 10:35
Date Received: 02/27/18 17:10

Sample Name: BAT-87-12 (1) 180227
Lab Code: R1801690-003

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	10 U	10	2.1	10	03/05/18 18:08	
Vinyl Chloride	1200	10	3.2	10	03/05/18 18:08	
Chloroethane	10 U	10	2.4	10	03/05/18 18:08	
Bromomethane	10 U	10	2.9	10	03/05/18 18:08	
1,1-Dichloroethene	10 U	10	5.7	10	03/05/18 18:08	
Acetone	50 U	50	13	10	03/05/18 18:08	
Carbon Disulfide	12	10	2.2	10	03/05/18 18:08	
Methylene Chloride	10 U	10	6.0	10	03/05/18 18:08	
trans-1,2-Dichloroethene	5.7 J	10	3.3	10	03/05/18 18:08	
1,1-Dichloroethane	14	10	2.0	10	03/05/18 18:08	
cis-1,2-Dichloroethene	700	10	3.0	10	03/05/18 18:08	
2-Butanone (MEK)	50 U	50	8.1	10	03/05/18 18:08	
Chloroform	10 U	10	2.5	10	03/05/18 18:08	
1,1,1-Trichloroethane	15	10	3.6	10	03/05/18 18:08	
Carbon Tetrachloride	10 U	10	4.5	10	03/05/18 18:08	
Benzene	10 U	10	2.0	10	03/05/18 18:08	
1,2-Dichloroethane	10 U	10	3.6	10	03/05/18 18:08	
Trichloroethene	13	10	2.2	10	03/05/18 18:08	
1,2-Dichloropropane	10 U	10	2.0	10	03/05/18 18:08	
Bromodichloromethane	10 U	10	3.2	10	03/05/18 18:08	
cis-1,3-Dichloropropene	10 U	10	2.4	10	03/05/18 18:08	
4-Methyl-2-pentanone (MIBK)	50 U	50	6.7	10	03/05/18 18:08	
Toluene	10 U	10	2.0	10	03/05/18 18:08	
trans-1,3-Dichloropropene	10 U	10	2.0	10	03/05/18 18:08	
1,1,2-Trichloroethane	10 U	10	3.4	10	03/05/18 18:08	
Tetrachloroethene	10 U	10	3.0	10	03/05/18 18:08	
2-Hexanone	50 U	50	17	10	03/05/18 18:08	
Dibromochloromethane	10 U	10	3.1	10	03/05/18 18:08	
Chlorobenzene	10 U	10	2.9	10	03/05/18 18:08	
Ethylbenzene	10 U	10	2.0	10	03/05/18 18:08	
m,p-Xylenes	20 U	20	3.3	10	03/05/18 18:08	
o-Xylene	10 U	10	2.0	10	03/05/18 18:08	
Styrene	10 U	10	2.0	10	03/05/18 18:08	
Bromoform	10 U	10	4.2	10	03/05/18 18:08	
1,1,2,2-Tetrachloroethane	10 U	10	2.5	10	03/05/18 18:08	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/27/18 10:35
Date Received: 02/27/18 17:10

Sample Name: BAT-87-12 (1) 180227
Lab Code: R1801690-003

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	104	85 - 122	03/05/18 18:08	
Toluene-d8	108	87 - 121	03/05/18 18:08	
Dibromofluoromethane	105	89 - 119	03/05/18 18:08	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/27/18 11:05
Date Received: 02/27/18 17:10

Sample Name: BAT-87-20 (1) 180227
Lab Code: R1801690-004

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	5.0 U	5.0	1.1	5	03/05/18 18:30	
Vinyl Chloride	460	5.0	1.6	5	03/05/18 18:30	
Chloroethane	5.0 U	5.0	1.2	5	03/05/18 18:30	
Bromomethane	5.0 U	5.0	1.5	5	03/05/18 18:30	
1,1-Dichloroethene	5.0 U	5.0	2.9	5	03/05/18 18:30	
Acetone	25 U	25	6.2	5	03/05/18 18:30	
Carbon Disulfide	6.5	5.0	1.1	5	03/05/18 18:30	
Methylene Chloride	5.0 U	5.0	3.0	5	03/05/18 18:30	
trans-1,2-Dichloroethene	3.0 J	5.0	1.7	5	03/05/18 18:30	
1,1-Dichloroethane	4.7 J	5.0	1.0	5	03/05/18 18:30	
cis-1,2-Dichloroethene	670	5.0	1.5	5	03/05/18 18:30	
2-Butanone (MEK)	25 U	25	4.1	5	03/05/18 18:30	
Chloroform	5.0 U	5.0	1.3	5	03/05/18 18:30	
1,1,1-Trichloroethane	4.7 J	5.0	1.8	5	03/05/18 18:30	
Carbon Tetrachloride	5.0 U	5.0	2.3	5	03/05/18 18:30	
Benzene	5.0 U	5.0	1.0	5	03/05/18 18:30	
1,2-Dichloroethane	5.0 U	5.0	1.8	5	03/05/18 18:30	
Trichloroethene	13	5.0	1.1	5	03/05/18 18:30	
1,2-Dichloropropane	5.0 U	5.0	1.0	5	03/05/18 18:30	
Bromodichloromethane	5.0 U	5.0	1.6	5	03/05/18 18:30	
cis-1,3-Dichloropropene	5.0 U	5.0	1.2	5	03/05/18 18:30	
4-Methyl-2-pentanone (MIBK)	25 U	25	3.4	5	03/05/18 18:30	
Toluene	5.0 U	5.0	1.0	5	03/05/18 18:30	
trans-1,3-Dichloropropene	5.0 U	5.0	1.0	5	03/05/18 18:30	
1,1,2-Trichloroethane	5.0 U	5.0	1.7	5	03/05/18 18:30	
Tetrachloroethene	5.0 U	5.0	1.5	5	03/05/18 18:30	
2-Hexanone	25 U	25	8.3	5	03/05/18 18:30	
Dibromochloromethane	5.0 U	5.0	1.6	5	03/05/18 18:30	
Chlorobenzene	5.0 U	5.0	1.5	5	03/05/18 18:30	
Ethylbenzene	5.0 U	5.0	1.0	5	03/05/18 18:30	
m,p-Xylenes	10 U	10	1.7	5	03/05/18 18:30	
o-Xylene	5.0 U	5.0	1.0	5	03/05/18 18:30	
Styrene	5.0 U	5.0	1.0	5	03/05/18 18:30	
Bromoform	5.0 U	5.0	2.1	5	03/05/18 18:30	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1.3	5	03/05/18 18:30	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/27/18 11:05
Date Received: 02/27/18 17:10

Sample Name: BAT-87-20 (1) 180227
Lab Code: R1801690-004

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	108	85 - 122	03/05/18 18:30	
Toluene-d8	110	87 - 121	03/05/18 18:30	
Dibromofluoromethane	107	89 - 119	03/05/18 18:30	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/27/18 11:30
Date Received: 02/27/18 17:10

Sample Name: BAT-87-22 (1) 180227
Lab Code: R1801690-005

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	5.0 U	5.0	1.1	5	03/02/18 16:32	
Vinyl Chloride	780	5.0	1.6	5	03/02/18 16:32	
Chloroethane	5.0 U	5.0	1.2	5	03/02/18 16:32	
Bromomethane	5.0 U	5.0	1.5	5	03/02/18 16:32	
1,1-Dichloroethene	4.7 J	5.0	2.9	5	03/02/18 16:32	
Acetone	25 U	25	6.2	5	03/02/18 16:32	
Carbon Disulfide	1.6 BJ	5.0	1.1	5	03/02/18 16:32	
Methylene Chloride	5.0 U	5.0	3.0	5	03/02/18 16:32	
trans-1,2-Dichloroethene	7.4	5.0	1.7	5	03/02/18 16:32	
1,1-Dichloroethane	7.2	5.0	1.0	5	03/02/18 16:32	
cis-1,2-Dichloroethene	1800 D	20	6.0	20	03/05/18 18:52	
2-Butanone (MEK)	25 U	25	4.1	5	03/02/18 16:32	
Chloroform	5.0 U	5.0	1.3	5	03/02/18 16:32	
1,1,1-Trichloroethane	2.2 J	5.0	1.8	5	03/02/18 16:32	
Carbon Tetrachloride	5.0 U	5.0	2.3	5	03/02/18 16:32	
Benzene	5.0 U	5.0	1.0	5	03/02/18 16:32	
1,2-Dichloroethane	5.0 U	5.0	1.8	5	03/02/18 16:32	
Trichloroethene	5.6	5.0	1.1	5	03/02/18 16:32	
1,2-Dichloropropane	5.0 U	5.0	1.0	5	03/02/18 16:32	
Bromodichloromethane	5.0 U	5.0	1.6	5	03/02/18 16:32	
cis-1,3-Dichloropropene	5.0 U	5.0	1.2	5	03/02/18 16:32	
4-Methyl-2-pentanone (MIBK)	25 U	25	3.4	5	03/02/18 16:32	
Toluene	5.0 U	5.0	1.0	5	03/02/18 16:32	
trans-1,3-Dichloropropene	5.0 U	5.0	1.0	5	03/02/18 16:32	
1,1,2-Trichloroethane	5.0 U	5.0	1.7	5	03/02/18 16:32	
Tetrachloroethene	5.0 U	5.0	1.5	5	03/02/18 16:32	
2-Hexanone	25 U	25	8.3	5	03/02/18 16:32	
Dibromochloromethane	5.0 U	5.0	1.6	5	03/02/18 16:32	
Chlorobenzene	5.0 U	5.0	1.5	5	03/02/18 16:32	
Ethylbenzene	5.0 U	5.0	1.0	5	03/02/18 16:32	
m,p-Xylenes	10 U	10	1.7	5	03/02/18 16:32	
o-Xylene	5.0 U	5.0	1.0	5	03/02/18 16:32	
Styrene	5.0 U	5.0	1.0	5	03/02/18 16:32	
Bromoform	5.0 U	5.0	2.1	5	03/02/18 16:32	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1.3	5	03/02/18 16:32	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/27/18 11:30
Date Received: 02/27/18 17:10

Sample Name: BAT-87-22 (1) 180227
Lab Code: R1801690-005

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	03/02/18 16:32	
Toluene-d8	97	87 - 121	03/02/18 16:32	
Dibromofluoromethane	95	89 - 119	03/02/18 16:32	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/27/18 12:50
Date Received: 02/27/18 17:10

Sample Name: BAT-89-12 (1) 180227
Lab Code: R1801690-006

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	5.0 U	5.0	1.1	5	03/05/18 19:14	
Vinyl Chloride	780	5.0	1.6	5	03/05/18 19:14	
Chloroethane	5.0 U	5.0	1.2	5	03/05/18 19:14	
Bromomethane	5.0 U	5.0	1.5	5	03/05/18 19:14	
1,1-Dichloroethene	5.0 U	5.0	2.9	5	03/05/18 19:14	
Acetone	9.9 J	25	6.2	5	03/05/18 19:14	
Carbon Disulfide	8.6	5.0	1.1	5	03/05/18 19:14	
Methylene Chloride	5.0 U	5.0	3.0	5	03/05/18 19:14	
trans-1,2-Dichloroethene	3.9 J	5.0	1.7	5	03/05/18 19:14	
1,1-Dichloroethane	15	5.0	1.0	5	03/05/18 19:14	
cis-1,2-Dichloroethene	880	5.0	1.5	5	03/05/18 19:14	
2-Butanone (MEK)	25 U	25	4.1	5	03/05/18 19:14	
Chloroform	5.0 U	5.0	1.3	5	03/05/18 19:14	
1,1,1-Trichloroethane	17	5.0	1.8	5	03/05/18 19:14	
Carbon Tetrachloride	5.0 U	5.0	2.3	5	03/05/18 19:14	
Benzene	5.0 U	5.0	1.0	5	03/05/18 19:14	
1,2-Dichloroethane	5.0 U	5.0	1.8	5	03/05/18 19:14	
Trichloroethene	30	5.0	1.1	5	03/05/18 19:14	
1,2-Dichloropropane	5.0 U	5.0	1.0	5	03/05/18 19:14	
Bromodichloromethane	5.0 U	5.0	1.6	5	03/05/18 19:14	
cis-1,3-Dichloropropene	5.0 U	5.0	1.2	5	03/05/18 19:14	
4-Methyl-2-pentanone (MIBK)	25 U	25	3.4	5	03/05/18 19:14	
Toluene	5.0 U	5.0	1.0	5	03/05/18 19:14	
trans-1,3-Dichloropropene	5.0 U	5.0	1.0	5	03/05/18 19:14	
1,1,2-Trichloroethane	5.0 U	5.0	1.7	5	03/05/18 19:14	
Tetrachloroethene	5.0 U	5.0	1.5	5	03/05/18 19:14	
2-Hexanone	25 U	25	8.3	5	03/05/18 19:14	
Dibromochloromethane	5.0 U	5.0	1.6	5	03/05/18 19:14	
Chlorobenzene	5.0 U	5.0	1.5	5	03/05/18 19:14	
Ethylbenzene	5.0 U	5.0	1.0	5	03/05/18 19:14	
m,p-Xylenes	10 U	10	1.7	5	03/05/18 19:14	
o-Xylene	5.0 U	5.0	1.0	5	03/05/18 19:14	
Styrene	5.0 U	5.0	1.0	5	03/05/18 19:14	
Bromoform	5.0 U	5.0	2.1	5	03/05/18 19:14	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1.3	5	03/05/18 19:14	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-89-12 (1) 180227
Lab Code: R1801690-006

Service Request: R1801690
Date Collected: 02/27/18 12:50
Date Received: 02/27/18 17:10
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	106	85 - 122	03/05/18 19:14	
Toluene-d8	109	87 - 121	03/05/18 19:14	
Dibromofluoromethane	106	89 - 119	03/05/18 19:14	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/27/18 13:05
Date Received: 02/27/18 17:10

Sample Name: BAT-DW-12-180227
Lab Code: R1801690-007

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	03/02/18 17:16	
Vinyl Chloride	1.0 U	1.0	0.32	1	03/02/18 17:16	
Chloroethane	1.0 U	1.0	0.24	1	03/02/18 17:16	
Bromomethane	1.0 U	1.0	0.29	1	03/02/18 17:16	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	03/02/18 17:16	
Acetone	1.9 J	5.0	1.3	1	03/02/18 17:16	
Carbon Disulfide	1.0 U	1.0	0.22	1	03/02/18 17:16	
Methylene Chloride	1.0 U	1.0	0.60	1	03/02/18 17:16	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	03/02/18 17:16	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	03/02/18 17:16	
cis-1,2-Dichloroethene	1.1	1.0	0.30	1	03/02/18 17:16	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	03/02/18 17:16	
Chloroform	1.0 U	1.0	0.25	1	03/02/18 17:16	
1,1,1-Trichloroethane	1.0 U	1.0	0.36	1	03/02/18 17:16	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	03/02/18 17:16	
Benzene	1.0 U	1.0	0.20	1	03/02/18 17:16	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	03/02/18 17:16	
Trichloroethene	0.70 J	1.0	0.22	1	03/02/18 17:16	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	03/02/18 17:16	
Bromodichloromethane	1.0 U	1.0	0.32	1	03/02/18 17:16	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	03/02/18 17:16	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	03/02/18 17:16	
Toluene	1.0 U	1.0	0.20	1	03/02/18 17:16	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	03/02/18 17:16	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	03/02/18 17:16	
Tetrachloroethene	1.0 U	1.0	0.30	1	03/02/18 17:16	
2-Hexanone	5.0 U	5.0	1.7	1	03/02/18 17:16	
Dibromochloromethane	1.0 U	1.0	0.31	1	03/02/18 17:16	
Chlorobenzene	1.0 U	1.0	0.29	1	03/02/18 17:16	
Ethylbenzene	1.0 U	1.0	0.20	1	03/02/18 17:16	
m,p-Xylenes	2.0 U	2.0	0.33	1	03/02/18 17:16	
o-Xylene	1.0 U	1.0	0.20	1	03/02/18 17:16	
Styrene	1.0 U	1.0	0.20	1	03/02/18 17:16	
Bromoform	1.0 U	1.0	0.42	1	03/02/18 17:16	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	03/02/18 17:16	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/27/18 13:05
Date Received: 02/27/18 17:10

Sample Name: BAT-DW-12-180227
Lab Code: R1801690-007

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	03/02/18 17:16	
Toluene-d8	97	87 - 121	03/02/18 17:16	
Dibromofluoromethane	94	89 - 119	03/02/18 17:16	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/27/18 13:30
Date Received: 02/27/18 17:10

Sample Name: BAT-89-10 (1) 180227
Lab Code: R1801690-008

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	50 U	50	11	50	03/05/18 19:36	
Vinyl Chloride	230	50	16	50	03/05/18 19:36	
Chloroethane	50 U	50	12	50	03/05/18 19:36	
Bromomethane	50 U	50	15	50	03/05/18 19:36	
1,1-Dichloroethene	50 U	50	29	50	03/05/18 19:36	
Acetone	250 U	250	62	50	03/05/18 19:36	
Carbon Disulfide	45 J	50	11	50	03/05/18 19:36	
Methylene Chloride	1600	50	30	50	03/05/18 19:36	
trans-1,2-Dichloroethene	50 U	50	17	50	03/05/18 19:36	
1,1-Dichloroethane	50 U	50	10	50	03/05/18 19:36	
cis-1,2-Dichloroethene	1200	50	15	50	03/05/18 19:36	
2-Butanone (MEK)	250 U	250	41	50	03/05/18 19:36	
Chloroform	50 U	50	13	50	03/05/18 19:36	
1,1,1-Trichloroethane	23 J	50	18	50	03/05/18 19:36	
Carbon Tetrachloride	50 U	50	23	50	03/05/18 19:36	
Benzene	50 U	50	10	50	03/05/18 19:36	
1,2-Dichloroethane	50 U	50	18	50	03/05/18 19:36	
Trichloroethene	4600	50	11	50	03/05/18 19:36	
1,2-Dichloropropane	50 U	50	10	50	03/05/18 19:36	
Bromodichloromethane	50 U	50	16	50	03/05/18 19:36	
cis-1,3-Dichloropropene	50 U	50	12	50	03/05/18 19:36	
4-Methyl-2-pentanone (MIBK)	250 U	250	34	50	03/05/18 19:36	
Toluene	50 U	50	10	50	03/05/18 19:36	
trans-1,3-Dichloropropene	50 U	50	10	50	03/05/18 19:36	
1,1,2-Trichloroethane	50 U	50	17	50	03/05/18 19:36	
Tetrachloroethene	50 U	50	15	50	03/05/18 19:36	
2-Hexanone	250 U	250	83	50	03/05/18 19:36	
Dibromochloromethane	50 U	50	16	50	03/05/18 19:36	
Chlorobenzene	50 U	50	15	50	03/05/18 19:36	
Ethylbenzene	50 U	50	10	50	03/05/18 19:36	
m,p-Xylenes	100 U	100	17	50	03/05/18 19:36	
o-Xylene	50 U	50	10	50	03/05/18 19:36	
Styrene	50 U	50	10	50	03/05/18 19:36	
Bromoform	50 U	50	21	50	03/05/18 19:36	
1,1,2,2-Tetrachloroethane	50 U	50	13	50	03/05/18 19:36	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/27/18 13:30
Date Received: 02/27/18 17:10

Sample Name: BAT-89-10 (1) 180227
Lab Code: R1801690-008

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	107	85 - 122	03/05/18 19:36	
Toluene-d8	111	87 - 121	03/05/18 19:36	
Dibromofluoromethane	108	89 - 119	03/05/18 19:36	

ALS Group USA, Corp.
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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/27/18 13:40
Date Received: 02/27/18 17:10

Sample Name: BAT-DW-11-180227
Lab Code: R1801690-009

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	03/06/18 14:00	
Vinyl Chloride	40	1.0	0.32	1	03/06/18 14:00	
Chloroethane	1.0 U	1.0	0.24	1	03/06/18 14:00	
Bromomethane	1.0 U	1.0	0.29	1	03/06/18 14:00	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	03/06/18 14:00	
Acetone	14	5.0	1.3	1	03/06/18 14:00	
Carbon Disulfide	0.48 J	1.0	0.22	1	03/06/18 14:00	
Methylene Chloride	14	1.0	0.60	1	03/06/18 14:00	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	03/06/18 14:00	
1,1-Dichloroethane	2.8	1.0	0.20	1	03/06/18 14:00	
cis-1,2-Dichloroethene	31	1.0	0.30	1	03/06/18 14:00	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	03/06/18 14:00	
Chloroform	1.0 U	1.0	0.25	1	03/06/18 14:00	
1,1,1-Trichloroethane	5.6	1.0	0.36	1	03/06/18 14:00	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	03/06/18 14:00	
Benzene	1.0 U	1.0	0.20	1	03/06/18 14:00	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	03/06/18 14:00	
Trichloroethene	190	1.0	0.22	1	03/06/18 14:00	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	03/06/18 14:00	
Bromodichloromethane	1.0 U	1.0	0.32	1	03/06/18 14:00	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	03/06/18 14:00	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	03/06/18 14:00	
Toluene	0.24 J	1.0	0.20	1	03/06/18 14:00	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	03/06/18 14:00	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	03/06/18 14:00	
Tetrachloroethene	1.0 U	1.0	0.30	1	03/06/18 14:00	
2-Hexanone	5.0 U	5.0	1.7	1	03/06/18 14:00	
Dibromochloromethane	1.0 U	1.0	0.31	1	03/06/18 14:00	
Chlorobenzene	1.0 U	1.0	0.29	1	03/06/18 14:00	
Ethylbenzene	1.0 U	1.0	0.20	1	03/06/18 14:00	
m,p-Xylenes	2.0 U	2.0	0.33	1	03/06/18 14:00	
o-Xylene	1.0 U	1.0	0.20	1	03/06/18 14:00	
Styrene	1.0 U	1.0	0.20	1	03/06/18 14:00	
Bromoform	1.0 U	1.0	0.42	1	03/06/18 14:00	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	03/06/18 14:00	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/27/18 13:40
Date Received: 02/27/18 17:10

Sample Name: BAT-DW-11-180227
Lab Code: R1801690-009

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	03/06/18 14:00	
Toluene-d8	102	87 - 121	03/06/18 14:00	
Dibromofluoromethane	101	89 - 119	03/06/18 14:00	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/27/18 14:10
Date Received: 02/27/18 17:10

Sample Name: BAT-B-14 (1) 180227
Lab Code: R1801690-010

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	03/02/18 18:22	
Vinyl Chloride	240 D	2.5	0.80	2.5	03/05/18 19:58	
Chloroethane	1.0 U	1.0	0.24	1	03/02/18 18:22	
Bromomethane	1.0 U	1.0	0.29	1	03/02/18 18:22	
1,1-Dichloroethene	1.2	1.0	0.57	1	03/02/18 18:22	
Acetone	1.4 J	5.0	1.3	1	03/02/18 18:22	
Carbon Disulfide	1.1 B	1.0	0.22	1	03/02/18 18:22	
Methylene Chloride	1.0 U	1.0	0.60	1	03/02/18 18:22	
trans-1,2-Dichloroethene	2.1	1.0	0.33	1	03/02/18 18:22	
1,1-Dichloroethane	22	1.0	0.20	1	03/02/18 18:22	
cis-1,2-Dichloroethene	150	1.0	0.30	1	03/02/18 18:22	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	03/02/18 18:22	
Chloroform	1.0 U	1.0	0.25	1	03/02/18 18:22	
1,1,1-Trichloroethane	73	1.0	0.36	1	03/02/18 18:22	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	03/02/18 18:22	
Benzene	1.0 U	1.0	0.20	1	03/02/18 18:22	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	03/02/18 18:22	
Trichloroethene	2.5	1.0	0.22	1	03/02/18 18:22	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	03/02/18 18:22	
Bromodichloromethane	1.0 U	1.0	0.32	1	03/02/18 18:22	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	03/02/18 18:22	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	03/02/18 18:22	
Toluene	1.0 U	1.0	0.20	1	03/02/18 18:22	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	03/02/18 18:22	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	03/02/18 18:22	
Tetrachloroethene	1.0 U	1.0	0.30	1	03/02/18 18:22	
2-Hexanone	5.0 U	5.0	1.7	1	03/02/18 18:22	
Dibromochloromethane	1.0 U	1.0	0.31	1	03/02/18 18:22	
Chlorobenzene	1.0 U	1.0	0.29	1	03/02/18 18:22	
Ethylbenzene	1.0 U	1.0	0.20	1	03/02/18 18:22	
m,p-Xylenes	2.0 U	2.0	0.33	1	03/02/18 18:22	
o-Xylene	1.0 U	1.0	0.20	1	03/02/18 18:22	
Styrene	1.0 U	1.0	0.20	1	03/02/18 18:22	
Bromoform	1.0 U	1.0	0.42	1	03/02/18 18:22	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	03/02/18 18:22	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/27/18 14:10
Date Received: 02/27/18 17:10

Sample Name: BAT-B-14 (1) 180227
Lab Code: R1801690-010

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85 - 122	03/02/18 18:22	
Toluene-d8	97	87 - 121	03/02/18 18:22	
Dibromofluoromethane	96	89 - 119	03/02/18 18:22	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/27/18 14:40
Date Received: 02/27/18 17:10

Sample Name: BAT-87-09 (1) 180227
Lab Code: R1801690-011

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	03/02/18 18:44	
Vinyl Chloride	190 D	2.0	0.64	2	03/05/18 20:20	
Chloroethane	1.0 U	1.0	0.24	1	03/02/18 18:44	
Bromomethane	1.0 U	1.0	0.29	1	03/02/18 18:44	
1,1-Dichloroethene	1.3	1.0	0.57	1	03/02/18 18:44	
Acetone	5.0 U	5.0	1.3	1	03/02/18 18:44	
Carbon Disulfide	1.1 B	1.0	0.22	1	03/02/18 18:44	
Methylene Chloride	1.0 U	1.0	0.60	1	03/02/18 18:44	
trans-1,2-Dichloroethene	1.7	1.0	0.33	1	03/02/18 18:44	
1,1-Dichloroethane	19	1.0	0.20	1	03/02/18 18:44	
cis-1,2-Dichloroethene	150	1.0	0.30	1	03/02/18 18:44	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	03/02/18 18:44	
Chloroform	1.0 U	1.0	0.25	1	03/02/18 18:44	
1,1,1-Trichloroethane	88	1.0	0.36	1	03/02/18 18:44	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	03/02/18 18:44	
Benzene	1.0 U	1.0	0.20	1	03/02/18 18:44	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	03/02/18 18:44	
Trichloroethene	2.1	1.0	0.22	1	03/02/18 18:44	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	03/02/18 18:44	
Bromodichloromethane	1.0 U	1.0	0.32	1	03/02/18 18:44	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	03/02/18 18:44	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	03/02/18 18:44	
Toluene	1.0 U	1.0	0.20	1	03/02/18 18:44	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	03/02/18 18:44	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	03/02/18 18:44	
Tetrachloroethene	1.0 U	1.0	0.30	1	03/02/18 18:44	
2-Hexanone	5.0 U	5.0	1.7	1	03/02/18 18:44	
Dibromochloromethane	1.0 U	1.0	0.31	1	03/02/18 18:44	
Chlorobenzene	1.0 U	1.0	0.29	1	03/02/18 18:44	
Ethylbenzene	1.0 U	1.0	0.20	1	03/02/18 18:44	
m,p-Xylenes	2.0 U	2.0	0.33	1	03/02/18 18:44	
o-Xylene	1.0 U	1.0	0.20	1	03/02/18 18:44	
Styrene	1.0 U	1.0	0.20	1	03/02/18 18:44	
Bromoform	1.0 U	1.0	0.42	1	03/02/18 18:44	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	03/02/18 18:44	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-87-09 (1) 180227
Lab Code: R1801690-011

Service Request: R1801690
Date Collected: 02/27/18 14:40
Date Received: 02/27/18 17:10
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	03/02/18 18:44	
Toluene-d8	100	87 - 121	03/02/18 18:44	
Dibromofluoromethane	99	89 - 119	03/02/18 18:44	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/28/18 09:40
Date Received: 02/28/18 14:40

Sample Name: BAT-89-15 (1) 180228
Lab Code: R1801690-012

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	50 U	50	11	50	03/02/18 19:06	
Vinyl Chloride	550	50	16	50	03/02/18 19:06	
Chloroethane	50 U	50	12	50	03/02/18 19:06	
Bromomethane	50 U	50	15	50	03/02/18 19:06	
1,1-Dichloroethene	50 U	50	29	50	03/02/18 19:06	
Acetone	250 U	250	62	50	03/02/18 19:06	
Carbon Disulfide	49 J	50	11	50	03/02/18 19:06	
Methylene Chloride	7700	50	30	50	03/02/18 19:06	
trans-1,2-Dichloroethene	50 U	50	17	50	03/02/18 19:06	
1,1-Dichloroethane	50 U	50	10	50	03/02/18 19:06	
cis-1,2-Dichloroethene	640	50	15	50	03/02/18 19:06	
2-Butanone (MEK)	250 U	250	41	50	03/02/18 19:06	
Chloroform	50 U	50	13	50	03/02/18 19:06	
1,1,1-Trichloroethane	50 U	50	18	50	03/02/18 19:06	
Carbon Tetrachloride	50 U	50	23	50	03/02/18 19:06	
Benzene	50 U	50	10	50	03/02/18 19:06	
1,2-Dichloroethane	50 U	50	18	50	03/02/18 19:06	
Trichloroethene	410	50	11	50	03/02/18 19:06	
1,2-Dichloropropane	50 U	50	10	50	03/02/18 19:06	
Bromodichloromethane	50 U	50	16	50	03/02/18 19:06	
cis-1,3-Dichloropropene	50 U	50	12	50	03/02/18 19:06	
4-Methyl-2-pentanone (MIBK)	250 U	250	34	50	03/02/18 19:06	
Toluene	50 U	50	10	50	03/02/18 19:06	
trans-1,3-Dichloropropene	50 U	50	10	50	03/02/18 19:06	
1,1,2-Trichloroethane	50 U	50	17	50	03/02/18 19:06	
Tetrachloroethene	50 U	50	15	50	03/02/18 19:06	
2-Hexanone	250 U	250	83	50	03/02/18 19:06	
Dibromochloromethane	50 U	50	16	50	03/02/18 19:06	
Chlorobenzene	50 U	50	15	50	03/02/18 19:06	
Ethylbenzene	50 U	50	10	50	03/02/18 19:06	
m,p-Xylenes	100 U	100	17	50	03/02/18 19:06	
o-Xylene	50 U	50	10	50	03/02/18 19:06	
Styrene	50 U	50	10	50	03/02/18 19:06	
Bromoform	50 U	50	21	50	03/02/18 19:06	
1,1,2,2-Tetrachloroethane	50 U	50	13	50	03/02/18 19:06	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-89-15 (1) 180228
Lab Code: R1801690-012

Service Request: R1801690
Date Collected: 02/28/18 09:40
Date Received: 02/28/18 14:40
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	03/02/18 19:06	
Toluene-d8	97	87 - 121	03/02/18 19:06	
Dibromofluoromethane	94	89 - 119	03/02/18 19:06	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/28/18 09:55
Date Received: 02/28/18 14:40

Sample Name: BAT-DW-10-180228
Lab Code: R1801690-013

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	50 U	50	11	50	03/02/18 19:28	
Vinyl Chloride	130	50	16	50	03/02/18 19:28	
Chloroethane	50 U	50	12	50	03/02/18 19:28	
Bromomethane	50 U	50	15	50	03/02/18 19:28	
1,1-Dichloroethene	50 U	50	29	50	03/02/18 19:28	
Acetone	250 U	250	62	50	03/02/18 19:28	
Carbon Disulfide	50 U	50	11	50	03/02/18 19:28	
Methylene Chloride	10000 D	100	60	100	03/05/18 20:43	
trans-1,2-Dichloroethene	50 U	50	17	50	03/02/18 19:28	
1,1-Dichloroethane	50 U	50	10	50	03/02/18 19:28	
cis-1,2-Dichloroethene	480	50	15	50	03/02/18 19:28	
2-Butanone (MEK)	250 U	250	41	50	03/02/18 19:28	
Chloroform	50 U	50	13	50	03/02/18 19:28	
1,1,1-Trichloroethane	50 U	50	18	50	03/02/18 19:28	
Carbon Tetrachloride	50 U	50	23	50	03/02/18 19:28	
Benzene	50 U	50	10	50	03/02/18 19:28	
1,2-Dichloroethane	50 U	50	18	50	03/02/18 19:28	
Trichloroethene	8900	50	11	50	03/02/18 19:28	
1,2-Dichloropropane	50 U	50	10	50	03/02/18 19:28	
Bromodichloromethane	50 U	50	16	50	03/02/18 19:28	
cis-1,3-Dichloropropene	50 U	50	12	50	03/02/18 19:28	
4-Methyl-2-pentanone (MIBK)	250 U	250	34	50	03/02/18 19:28	
Toluene	50 U	50	10	50	03/02/18 19:28	
trans-1,3-Dichloropropene	50 U	50	10	50	03/02/18 19:28	
1,1,2-Trichloroethane	50 U	50	17	50	03/02/18 19:28	
Tetrachloroethene	50 U	50	15	50	03/02/18 19:28	
2-Hexanone	250 U	250	83	50	03/02/18 19:28	
Dibromochloromethane	50 U	50	16	50	03/02/18 19:28	
Chlorobenzene	50 U	50	15	50	03/02/18 19:28	
Ethylbenzene	50 U	50	10	50	03/02/18 19:28	
m,p-Xylenes	100 U	100	17	50	03/02/18 19:28	
o-Xylene	50 U	50	10	50	03/02/18 19:28	
Styrene	50 U	50	10	50	03/02/18 19:28	
Bromoform	50 U	50	21	50	03/02/18 19:28	
1,1,2,2-Tetrachloroethane	50 U	50	13	50	03/02/18 19:28	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/28/18 09:55
Date Received: 02/28/18 14:40

Sample Name: BAT-DW-10-180228
Lab Code: R1801690-013

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	03/02/18 19:28	
Toluene-d8	95	87 - 121	03/02/18 19:28	
Dibromofluoromethane	93	89 - 119	03/02/18 19:28	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/28/18 10:30
Date Received: 02/28/18 14:40

Sample Name: BAT-87-08 (1) 180228
Lab Code: R1801690-014

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	10 U	10	2.1	10	03/05/18 21:05	
Vinyl Chloride	1200	10	3.2	10	03/05/18 21:05	
Chloroethane	10 U	10	2.4	10	03/05/18 21:05	
Bromomethane	10 U	10	2.9	10	03/05/18 21:05	
1,1-Dichloroethene	8.4 J	10	5.7	10	03/05/18 21:05	
Acetone	50 U	50	13	10	03/05/18 21:05	
Carbon Disulfide	12	10	2.2	10	03/05/18 21:05	
Methylene Chloride	190	10	6.0	10	03/05/18 21:05	
trans-1,2-Dichloroethene	9.0 J	10	3.3	10	03/05/18 21:05	
1,1-Dichloroethane	15	10	2.0	10	03/05/18 21:05	
cis-1,2-Dichloroethene	1500	10	3.0	10	03/05/18 21:05	
2-Butanone (MEK)	50 U	50	8.1	10	03/05/18 21:05	
Chloroform	10 U	10	2.5	10	03/05/18 21:05	
1,1,1-Trichloroethane	6.1 J	10	3.6	10	03/05/18 21:05	
Carbon Tetrachloride	10 U	10	4.5	10	03/05/18 21:05	
Benzene	10 U	10	2.0	10	03/05/18 21:05	
1,2-Dichloroethane	10 U	10	3.6	10	03/05/18 21:05	
Trichloroethene	37	10	2.2	10	03/05/18 21:05	
1,2-Dichloropropane	10 U	10	2.0	10	03/05/18 21:05	
Bromodichloromethane	10 U	10	3.2	10	03/05/18 21:05	
cis-1,3-Dichloropropene	10 U	10	2.4	10	03/05/18 21:05	
4-Methyl-2-pentanone (MIBK)	50 U	50	6.7	10	03/05/18 21:05	
Toluene	10 U	10	2.0	10	03/05/18 21:05	
trans-1,3-Dichloropropene	10 U	10	2.0	10	03/05/18 21:05	
1,1,2-Trichloroethane	10 U	10	3.4	10	03/05/18 21:05	
Tetrachloroethene	10 U	10	3.0	10	03/05/18 21:05	
2-Hexanone	50 U	50	17	10	03/05/18 21:05	
Dibromochloromethane	10 U	10	3.1	10	03/05/18 21:05	
Chlorobenzene	10 U	10	2.9	10	03/05/18 21:05	
Ethylbenzene	10 U	10	2.0	10	03/05/18 21:05	
m,p-Xylenes	20 U	20	3.3	10	03/05/18 21:05	
o-Xylene	10 U	10	2.0	10	03/05/18 21:05	
Styrene	10 U	10	2.0	10	03/05/18 21:05	
Bromoform	10 U	10	4.2	10	03/05/18 21:05	
1,1,2,2-Tetrachloroethane	10 U	10	2.5	10	03/05/18 21:05	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-87-08 (1) 180228
Lab Code: R1801690-014

Service Request: R1801690
Date Collected: 02/28/18 10:30
Date Received: 02/28/18 14:40
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85 - 122	03/05/18 21:05	
Toluene-d8	109	87 - 121	03/05/18 21:05	
Dibromofluoromethane	106	89 - 119	03/05/18 21:05	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/28/18 10:40
Date Received: 02/28/18 14:40

Sample Name: BAT-DW-9-180228
Lab Code: R1801690-015

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	03/02/18 20:12	
Vinyl Chloride	1.0 U	1.0	0.32	1	03/02/18 20:12	
Chloroethane	1.0 U	1.0	0.24	1	03/02/18 20:12	
Bromomethane	1.0 U	1.0	0.29	1	03/02/18 20:12	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	03/02/18 20:12	
Acetone	2.0 J	5.0	1.3	1	03/02/18 20:12	
Carbon Disulfide	1.0 U	1.0	0.22	1	03/02/18 20:12	
Methylene Chloride	1.0 U	1.0	0.60	1	03/02/18 20:12	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	03/02/18 20:12	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	03/02/18 20:12	
cis-1,2-Dichloroethene	3.7	1.0	0.30	1	03/02/18 20:12	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	03/02/18 20:12	
Chloroform	1.0 U	1.0	0.25	1	03/02/18 20:12	
1,1,1-Trichloroethane	1.0 U	1.0	0.36	1	03/02/18 20:12	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	03/02/18 20:12	
Benzene	1.0 U	1.0	0.20	1	03/02/18 20:12	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	03/02/18 20:12	
Trichloroethene	15	1.0	0.22	1	03/02/18 20:12	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	03/02/18 20:12	
Bromodichloromethane	1.0 U	1.0	0.32	1	03/02/18 20:12	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	03/02/18 20:12	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	03/02/18 20:12	
Toluene	1.0 U	1.0	0.20	1	03/02/18 20:12	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	03/02/18 20:12	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	03/02/18 20:12	
Tetrachloroethene	1.0 U	1.0	0.30	1	03/02/18 20:12	
2-Hexanone	5.0 U	5.0	1.7	1	03/02/18 20:12	
Dibromochloromethane	1.0 U	1.0	0.31	1	03/02/18 20:12	
Chlorobenzene	1.0 U	1.0	0.29	1	03/02/18 20:12	
Ethylbenzene	1.0 U	1.0	0.20	1	03/02/18 20:12	
m,p-Xylenes	2.0 U	2.0	0.33	1	03/02/18 20:12	
o-Xylene	1.0 U	1.0	0.20	1	03/02/18 20:12	
Styrene	1.0 U	1.0	0.20	1	03/02/18 20:12	
Bromoform	1.0 U	1.0	0.42	1	03/02/18 20:12	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	03/02/18 20:12	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/28/18 10:40
Date Received: 02/28/18 14:40

Sample Name: BAT-DW-9-180228
Lab Code: R1801690-015

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	03/02/18 20:12	
Toluene-d8	100	87 - 121	03/02/18 20:12	
Dibromofluoromethane	96	89 - 119	03/02/18 20:12	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/28/18 11:10
Date Received: 02/28/18 14:40

Sample Name: BAT-B-10A (1) 180228
Lab Code: R1801690-016

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	200 U	200	42	200	03/02/18 20:35	
Vinyl Chloride	440	200	64	200	03/02/18 20:35	
Chloroethane	200 U	200	48	200	03/02/18 20:35	
Bromomethane	200 U	200	58	200	03/02/18 20:35	
1,1-Dichloroethene	310	200	120	200	03/02/18 20:35	
Acetone	1000 U	1000	250	200	03/02/18 20:35	
Carbon Disulfide	200 U	200	44	200	03/02/18 20:35	
Methylene Chloride	2200	200	120	200	03/02/18 20:35	
trans-1,2-Dichloroethene	190 J	200	66	200	03/02/18 20:35	
1,1-Dichloroethane	370	200	40	200	03/02/18 20:35	
cis-1,2-Dichloroethene	65000 D	500	150	500	03/05/18 21:27	
2-Butanone (MEK)	1000 U	1000	170	200	03/02/18 20:35	
Chloroform	200 U	200	50	200	03/02/18 20:35	
1,1,1-Trichloroethane	850	200	72	200	03/02/18 20:35	
Carbon Tetrachloride	200 U	200	90	200	03/02/18 20:35	
Benzene	200 U	200	40	200	03/02/18 20:35	
1,2-Dichloroethane	200 U	200	72	200	03/02/18 20:35	
Trichloroethene	17000	200	44	200	03/02/18 20:35	
1,2-Dichloropropane	200 U	200	40	200	03/02/18 20:35	
Bromodichloromethane	200 U	200	64	200	03/02/18 20:35	
cis-1,3-Dichloropropene	200 U	200	48	200	03/02/18 20:35	
4-Methyl-2-pentanone (MIBK)	1000 U	1000	140	200	03/02/18 20:35	
Toluene	200 U	200	40	200	03/02/18 20:35	
trans-1,3-Dichloropropene	200 U	200	40	200	03/02/18 20:35	
1,1,2-Trichloroethane	200 U	200	68	200	03/02/18 20:35	
Tetrachloroethene	200 U	200	60	200	03/02/18 20:35	
2-Hexanone	1000 U	1000	340	200	03/02/18 20:35	
Dibromochloromethane	200 U	200	62	200	03/02/18 20:35	
Chlorobenzene	200 U	200	58	200	03/02/18 20:35	
Ethylbenzene	200 U	200	40	200	03/02/18 20:35	
m,p-Xylenes	400 U	400	66	200	03/02/18 20:35	
o-Xylene	200 U	200	40	200	03/02/18 20:35	
Styrene	200 U	200	40	200	03/02/18 20:35	
Bromoform	200 U	200	84	200	03/02/18 20:35	
1,1,2,2-Tetrachloroethane	200 U	200	50	200	03/02/18 20:35	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/28/18 11:10
Date Received: 02/28/18 14:40

Sample Name: BAT-B-10A (1) 180228
Lab Code: R1801690-016

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85 - 122	03/02/18 20:35	
Toluene-d8	97	87 - 121	03/02/18 20:35	
Dibromofluoromethane	95	89 - 119	03/02/18 20:35	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/28/18 11:40
Date Received: 02/28/18 14:40

Sample Name: BAT-87-13 (1) 180228
Lab Code: R1801690-017

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1000 U	1000	210	1000	03/05/18 22:11	
Vinyl Chloride	2200 D	1000	320	1000	03/05/18 22:11	
Chloroethane	1000 U	1000	240	1000	03/05/18 22:11	
Bromomethane	1000 U	1000	290	1000	03/05/18 22:11	
1,1-Dichloroethene	1000 U	1000	570	1000	03/05/18 22:11	
Acetone	5000 U	5000	1300	1000	03/05/18 22:11	
Carbon Disulfide	1000 U	1000	220	1000	03/05/18 22:11	
Methylene Chloride	87000 D	1000	600	1000	03/05/18 22:11	
trans-1,2-Dichloroethene	1000 U	1000	330	1000	03/05/18 22:11	
1,1-Dichloroethane	360 DJ	1000	200	1000	03/05/18 22:11	
cis-1,2-Dichloroethene	38000 D	1000	300	1000	03/05/18 22:11	
2-Butanone (MEK)	5000 U	5000	810	1000	03/05/18 22:11	
Chloroform	1000 U	1000	250	1000	03/05/18 22:11	
1,1,1-Trichloroethane	1600 D	1000	360	1000	03/05/18 22:11	
Carbon Tetrachloride	1000 U	1000	450	1000	03/05/18 22:11	
Benzene	1000 U	1000	200	1000	03/05/18 22:11	
1,2-Dichloroethane	1000 U	1000	360	1000	03/05/18 22:11	
Trichloroethene	65000 D	1000	220	1000	03/05/18 22:11	
1,2-Dichloropropane	1000 U	1000	200	1000	03/05/18 22:11	
Bromodichloromethane	1000 U	1000	320	1000	03/05/18 22:11	
cis-1,3-Dichloropropene	1000 U	1000	240	1000	03/05/18 22:11	
4-Methyl-2-pentanone (MIBK)	5000 U	5000	670	1000	03/05/18 22:11	
Toluene	1000 U	1000	200	1000	03/05/18 22:11	
trans-1,3-Dichloropropene	1000 U	1000	200	1000	03/05/18 22:11	
1,1,2-Trichloroethane	1000 U	1000	340	1000	03/05/18 22:11	
Tetrachloroethene	1000 U	1000	300	1000	03/05/18 22:11	
2-Hexanone	5000 U	5000	1700	1000	03/05/18 22:11	
Dibromochloromethane	1000 U	1000	310	1000	03/05/18 22:11	
Chlorobenzene	1000 U	1000	290	1000	03/05/18 22:11	
Ethylbenzene	1000 U	1000	200	1000	03/05/18 22:11	
m,p-Xylenes	2000 U	2000	330	1000	03/05/18 22:11	
o-Xylene	1000 U	1000	200	1000	03/05/18 22:11	
Styrene	1000 U	1000	200	1000	03/05/18 22:11	
Bromoform	1000 U	1000	420	1000	03/05/18 22:11	
1,1,2,2-Tetrachloroethane	1000 U	1000	250	1000	03/05/18 22:11	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-87-13 (1) 180228
Lab Code: R1801690-017

Service Request: R1801690
Date Collected: 02/28/18 11:40
Date Received: 02/28/18 14:40
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	03/05/18 22:11	
Toluene-d8	102	87 - 121	03/05/18 22:11	
Dibromofluoromethane	98	89 - 119	03/05/18 22:11	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/28/18 12:10
Date Received: 02/28/18 14:40

Sample Name: BAT-87-17 (1) 180228
Lab Code: R1801690-018

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	03/02/18 21:19	
Vinyl Chloride	340 D	2.5	0.80	2.5	03/05/18 21:49	
Chloroethane	1.0 U	1.0	0.24	1	03/02/18 21:19	
Bromomethane	1.0 U	1.0	0.29	1	03/02/18 21:19	
1,1-Dichloroethene	1.3	1.0	0.57	1	03/02/18 21:19	
Acetone	5.0 U	5.0	1.3	1	03/02/18 21:19	
Carbon Disulfide	1.2 B	1.0	0.22	1	03/02/18 21:19	
Methylene Chloride	1.0 U	1.0	0.60	1	03/02/18 21:19	
trans-1,2-Dichloroethene	2.2	1.0	0.33	1	03/02/18 21:19	
1,1-Dichloroethane	25	1.0	0.20	1	03/02/18 21:19	
cis-1,2-Dichloroethene	120	1.0	0.30	1	03/02/18 21:19	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	03/02/18 21:19	
Chloroform	1.0 U	1.0	0.25	1	03/02/18 21:19	
1,1,1-Trichloroethane	100	1.0	0.36	1	03/02/18 21:19	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	03/02/18 21:19	
Benzene	1.0 U	1.0	0.20	1	03/02/18 21:19	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	03/02/18 21:19	
Trichloroethene	3.2	1.0	0.22	1	03/02/18 21:19	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	03/02/18 21:19	
Bromodichloromethane	1.0 U	1.0	0.32	1	03/02/18 21:19	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	03/02/18 21:19	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	03/02/18 21:19	
Toluene	1.0 U	1.0	0.20	1	03/02/18 21:19	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	03/02/18 21:19	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	03/02/18 21:19	
Tetrachloroethene	1.0 U	1.0	0.30	1	03/02/18 21:19	
2-Hexanone	5.0 U	5.0	1.7	1	03/02/18 21:19	
Dibromochloromethane	1.0 U	1.0	0.31	1	03/02/18 21:19	
Chlorobenzene	1.0 U	1.0	0.29	1	03/02/18 21:19	
Ethylbenzene	1.0 U	1.0	0.20	1	03/02/18 21:19	
m,p-Xylenes	2.0 U	2.0	0.33	1	03/02/18 21:19	
o-Xylene	1.0 U	1.0	0.20	1	03/02/18 21:19	
Styrene	1.0 U	1.0	0.20	1	03/02/18 21:19	
Bromoform	1.0 U	1.0	0.42	1	03/02/18 21:19	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	03/02/18 21:19	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-87-17 (1) 180228
Lab Code: R1801690-018

Service Request: R1801690
Date Collected: 02/28/18 12:10
Date Received: 02/28/18 14:40
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85 - 122	03/02/18 21:19	
Toluene-d8	96	87 - 121	03/02/18 21:19	
Dibromofluoromethane	94	89 - 119	03/02/18 21:19	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/28/18
Date Received: 03/01/18 14:40

Sample Name: Trip blank
Lab Code: R1801690-019

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	03/02/18 14:42	
Vinyl Chloride	1.0 U	1.0	0.32	1	03/02/18 14:42	
Chloroethane	1.0 U	1.0	0.24	1	03/02/18 14:42	
Bromomethane	1.0 U	1.0	0.29	1	03/02/18 14:42	
1,1-Dichloroethane	1.0 U	1.0	0.57	1	03/02/18 14:42	
Acetone	5.0 U	5.0	1.3	1	03/02/18 14:42	
Carbon Disulfide	1.0 U	1.0	0.22	1	03/02/18 14:42	
Methylene Chloride	1.0 U	1.0	0.60	1	03/02/18 14:42	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	03/02/18 14:42	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	03/02/18 14:42	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	03/02/18 14:42	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	03/02/18 14:42	
Chloroform	1.0 U	1.0	0.25	1	03/02/18 14:42	
1,1,1-Trichloroethane	1.0 U	1.0	0.36	1	03/02/18 14:42	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	03/02/18 14:42	
Benzene	1.0 U	1.0	0.20	1	03/02/18 14:42	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	03/02/18 14:42	
Trichloroethene	1.0 U	1.0	0.22	1	03/02/18 14:42	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	03/02/18 14:42	
Bromodichloromethane	1.0 U	1.0	0.32	1	03/02/18 14:42	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	03/02/18 14:42	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	03/02/18 14:42	
Toluene	1.0 U	1.0	0.20	1	03/02/18 14:42	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	03/02/18 14:42	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	03/02/18 14:42	
Tetrachloroethene	1.0 U	1.0	0.30	1	03/02/18 14:42	
2-Hexanone	5.0 U	5.0	1.7	1	03/02/18 14:42	
Dibromochloromethane	1.0 U	1.0	0.31	1	03/02/18 14:42	
Chlorobenzene	1.0 U	1.0	0.29	1	03/02/18 14:42	
Ethylbenzene	1.0 U	1.0	0.20	1	03/02/18 14:42	
m,p-Xylenes	2.0 U	2.0	0.33	1	03/02/18 14:42	
o-Xylene	1.0 U	1.0	0.20	1	03/02/18 14:42	
Styrene	1.0 U	1.0	0.20	1	03/02/18 14:42	
Bromoform	1.0 U	1.0	0.42	1	03/02/18 14:42	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	03/02/18 14:42	

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dba ALS Environmental

Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: Trip blank
Lab Code: R1801690-019

Service Request: R1801690
Date Collected: 02/28/18
Date Received: 03/01/18 14:40
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	105	85 - 122	03/02/18 14:42	
Toluene-d8	107	87 - 121	03/02/18 14:42	
Dibromofluoromethane	100	89 - 119	03/02/18 14:42	



Volatile Organic Compounds by GC

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

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dba ALS Environmental

Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-87-02 (1) 180227
Lab Code: R1801690-001

Service Request: R1801690
Date Collected: 02/27/18 09:35
Date Received: 02/27/18 17:10
Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	1.2	1.0	1	03/08/18 13:02	
Ethene	150	4.0	4	03/09/18 11:51	
Methane	60	1.0	1	03/08/18 13:02	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-87-01 (1) 180227
Lab Code: R1801690-002

Service Request: R1801690
Date Collected: 02/27/18 10:10
Date Received: 02/27/18 17:10
Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	1.0 U	1.0	1	03/08/18 13:11	
Ethene	18	1.0	1	03/08/18 13:11	
Methane	1.9	1.0	1	03/08/18 13:11	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-87-12 (1) 180227
Lab Code: R1801690-003

Service Request: R1801690
Date Collected: 02/27/18 10:35
Date Received: 02/27/18 17:10
Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	1.0 U	1.0	1	03/08/18 13:21	
Ethene	160	4.0	4	03/09/18 12:01	
Methane	21	1.0	1	03/08/18 13:21	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-87-20 (1) 180227
Lab Code: R1801690-004

Service Request: R1801690
Date Collected: 02/27/18 11:05
Date Received: 02/27/18 17:10
Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	1.0 U	1.0	1	03/08/18 13:31	
Ethene	61	1.0	1	03/08/18 13:31	
Methane	7.0	1.0	1	03/08/18 13:31	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-87-22 (1) 180227
Lab Code: R1801690-005

Service Request: R1801690
Date Collected: 02/27/18 11:30
Date Received: 02/27/18 17:10
Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	3.9	1.0	1	03/08/18 13:41	
Ethene	42	1.0	1	03/08/18 13:41	
Methane	110	2.0	2	03/09/18 12:10	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-89-12 (1) 180227
Lab Code: R1801690-006

Service Request: R1801690
Date Collected: 02/27/18 12:50
Date Received: 02/27/18 17:10
Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	3.3	1.0	1	03/08/18 13:50	
Ethene	330	10	10	03/09/18 12:20	
Methane	31	1.0	1	03/08/18 13:50	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/27/18 13:05
Date Received: 02/27/18 17:10

Sample Name: BAT-DW-12-180227
Lab Code: R1801690-007

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	1.0 U	1.0	1	03/08/18 14:00	
Ethene	1.0 U	1.0	1	03/08/18 14:00	
Methane	1.0 U	1.0	1	03/08/18 14:00	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-89-10 (1) 180227
Lab Code: R1801690-008

Service Request: R1801690
Date Collected: 02/27/18 13:30
Date Received: 02/27/18 17:10
Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	4.0	1.0	1	03/08/18 14:08	
Ethene	71	1.0	1	03/08/18 14:08	
Methane	10	1.0	1	03/08/18 14:08	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-DW-11-180227
Lab Code: R1801690-009

Service Request: R1801690
Date Collected: 02/27/18 13:40
Date Received: 02/27/18 17:10
Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	1.0 U	1.0	1	03/08/18 14:17	
Ethene	1.3	1.0	1	03/08/18 14:17	
Methane	2.7	1.0	1	03/08/18 14:17	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-B-14 (1) 180227
Lab Code: R1801690-010

Service Request: R1801690
Date Collected: 02/27/18 14:10
Date Received: 02/27/18 17:10
Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	1.0 U	1.0	1	03/08/18 14:28	
Ethene	7.1	1.0	1	03/08/18 14:28	
Methane	21	1.0	1	03/08/18 14:28	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-87-09 (1) 180227
Lab Code: R1801690-011

Service Request: R1801690
Date Collected: 02/27/18 14:40
Date Received: 02/27/18 17:10
Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	1.6	1.0	1	03/09/18 12:29	
Ethene	11	1.0	1	03/09/18 12:29	
Methane	65	1.0	1	03/09/18 12:29	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/28/18 09:40
Date Received: 02/28/18 14:40

Sample Name: BAT-89-15 (1) 180228
Lab Code: R1801690-012

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	2.5 U	2.5	2.5	03/09/18 12:38	
Ethene	150	2.5	2.5	03/09/18 12:38	
Methane	58	2.5	2.5	03/09/18 12:38	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/28/18 09:55
Date Received: 02/28/18 14:40

Sample Name: BAT-DW-10-180228
Lab Code: R1801690-013

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	3.7	1.0	1	03/09/18 12:48	
Ethene	14	1.0	1	03/09/18 12:48	
Methane	47	1.0	1	03/09/18 12:48	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/28/18 10:30
Date Received: 02/28/18 14:40

Sample Name: BAT-87-08 (1) 180228
Lab Code: R1801690-014

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	4.0 U	4.0	4	03/09/18 12:57	
Ethene	130	4.0	4	03/09/18 12:57	
Methane	15	4.0	4	03/09/18 12:57	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/28/18 10:40
Date Received: 02/28/18 14:40

Sample Name: BAT-DW-9-180228
Lab Code: R1801690-015

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	1.0 U	1.0	1	03/08/18 15:28	
Ethene	1.0 U	1.0	1	03/08/18 15:28	
Methane	1.0 U	1.0	1	03/08/18 15:28	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/28/18 11:10
Date Received: 02/28/18 14:40

Sample Name: BAT-B-10A (1) 180228
Lab Code: R1801690-016

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	2.3	1.0	1	03/09/18 13:07	
Ethene	25	1.0	1	03/09/18 13:07	
Methane	66	1.0	1	03/09/18 13:07	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-87-13 (1) 180228
Lab Code: R1801690-017

Service Request: R1801690
Date Collected: 02/28/18 11:40
Date Received: 02/28/18 14:40
Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	7.5	2.5	2.5	03/09/18 13:17	
Ethene	140	2.5	2.5	03/09/18 13:17	
Methane	130	2.5	2.5	03/09/18 13:17	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/28/18 12:10
Date Received: 02/28/18 14:40

Sample Name: BAT-87-17 (1) 180228
Lab Code: R1801690-018

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	1.5	1.0	1	03/09/18 13:34	
Ethene	12	1.0	1	03/09/18 13:34	
Methane	70	1.0	1	03/09/18 13:34	



Semivolatile Organic Compounds by GC

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1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/27/18 09:35
Date Received: 02/27/18 17:10

Sample Name: BAT-87-02 (1) 180227
Lab Code: R1801690-001

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	1.0 U	1.0	2	03/06/18 14:56	
Acetic Acid	250	2.0	2	03/06/18 14:56	
Butanoic Acid (Butyric Acid)	28	4.0	2	03/06/18 14:56	
Lactic Acid	2.0 U	2.0	2	03/06/18 14:56	
Propionic Acid	32	2.0	2	03/08/18 13:18	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/27/18 10:10
Date Received: 02/27/18 17:10

Sample Name: BAT-87-01 (1) 180227
Lab Code: R1801690-002

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	03/05/18 18:12	
Acetic Acid	130	1.0	1	03/05/18 18:12	
Butanoic Acid (Butyric Acid)	5.5	2.0	1	03/05/18 18:12	
Lactic Acid	1.0 U	1.0	1	03/05/18 18:12	
Propionic Acid	3.0	1.0	1	03/08/18 14:03	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/27/18 10:35
Date Received: 02/27/18 17:10

Sample Name: BAT-87-12 (1) 180227
Lab Code: R1801690-003

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	03/05/18 18:57	
Acetic Acid	1.0 U	1.0	1	03/05/18 18:57	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	03/05/18 18:57	
Lactic Acid	1.0 U	1.0	1	03/05/18 18:57	
Propionic Acid	1.0 U	1.0	1	03/05/18 18:57	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/27/18 11:05
Date Received: 02/27/18 17:10

Sample Name: BAT-87-20 (1) 180227
Lab Code: R1801690-004

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	03/05/18 19:42	
Acetic Acid	1.0 U	1.0	1	03/05/18 19:42	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	03/05/18 19:42	
Lactic Acid	1.0 U	1.0	1	03/05/18 19:42	
Propionic Acid	1.0 U	1.0	1	03/05/18 19:42	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/27/18 11:30
Date Received: 02/27/18 17:10

Sample Name: BAT-87-22 (1) 180227
Lab Code: R1801690-005

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	03/05/18 09:48	
Acetic Acid	1.1	1.0	1	03/05/18 09:48	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	03/05/18 09:48	
Lactic Acid	1.0 U	1.0	1	03/05/18 09:48	
Propionic Acid	1.0 U	1.0	1	03/05/18 09:48	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/27/18 12:50
Date Received: 02/27/18 17:10

Sample Name: BAT-89-12 (1) 180227
Lab Code: R1801690-006

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	03/05/18 21:12	
Acetic Acid	1.0 U	1.0	1	03/05/18 21:12	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	03/05/18 21:12	
Lactic Acid	1.0 U	1.0	1	03/05/18 21:12	
Propionic Acid	1.0 U	1.0	1	03/05/18 21:12	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/27/18 13:05
Date Received: 02/27/18 17:10

Sample Name: BAT-DW-12-180227
Lab Code: R1801690-007

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	03/05/18 21:58	
Acetic Acid	1.0 U	1.0	1	03/05/18 21:58	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	03/05/18 21:58	
Lactic Acid	1.0 U	1.0	1	03/05/18 21:58	
Propionic Acid	1.0 U	1.0	1	03/05/18 21:58	

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dba ALS Environmental

Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/27/18 13:30
Date Received: 02/27/18 17:10

Sample Name: BAT-89-10 (1) 180227
Lab Code: R1801690-008

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	03/05/18 23:28	
Acetic Acid	88	1.0	1	03/05/18 23:28	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	03/05/18 23:28	
Lactic Acid	1.0	1.0	1	03/05/18 23:28	
Propionic Acid	1.0 U	1.0	1	03/05/18 23:28	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/27/18 13:40
Date Received: 02/27/18 17:10

Sample Name: BAT-DW-11-180227
Lab Code: R1801690-009

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	03/06/18 00:12	
Acetic Acid	1.0 U	1.0	1	03/06/18 00:12	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	03/06/18 00:12	
Lactic Acid	1.0 U	1.0	1	03/06/18 00:12	
Propionic Acid	1.0 U	1.0	1	03/06/18 00:12	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/27/18 14:10
Date Received: 02/27/18 17:10

Sample Name: BAT-B-14 (1) 180227
Lab Code: R1801690-010

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	03/06/18 00:57	
Acetic Acid	1.0 U	1.0	1	03/06/18 00:57	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	03/06/18 00:57	
Lactic Acid	1.0 U	1.0	1	03/06/18 00:57	
Propionic Acid	1.0 U	1.0	1	03/06/18 00:57	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/27/18 14:40
Date Received: 02/27/18 17:10

Sample Name: BAT-87-09 (1) 180227
Lab Code: R1801690-011

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	03/06/18 01:42	
Acetic Acid	1.0 U	1.0	1	03/06/18 01:42	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	03/06/18 01:42	
Lactic Acid	1.0 U	1.0	1	03/06/18 01:42	
Propionic Acid	1.0 U	1.0	1	03/06/18 01:42	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/28/18 09:40
Date Received: 02/28/18 14:40

Sample Name: BAT-89-15 (1) 180228
Lab Code: R1801690-012

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	03/06/18 02:27	
Acetic Acid	150	1.0	1	03/06/18 02:27	
Butanoic Acid (Butyric Acid)	10	2.0	1	03/06/18 02:27	
Lactic Acid	1.0 U	1.0	1	03/06/18 02:27	
Propionic Acid	4.9	1.0	1	03/08/18 14:48	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/28/18 09:55
Date Received: 02/28/18 14:40

Sample Name: BAT-DW-10-180228
Lab Code: R1801690-013

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	03/06/18 03:15	
Acetic Acid	14	1.0	1	03/06/18 03:15	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	03/06/18 03:15	
Lactic Acid	1.0 U	1.0	1	03/06/18 03:15	
Propionic Acid	2.9	1.0	1	03/08/18 15:33	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/28/18 10:30
Date Received: 02/28/18 14:40

Sample Name: BAT-87-08 (1) 180228
Lab Code: R1801690-014

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	03/06/18 04:00	
Acetic Acid	94	1.0	1	03/06/18 04:00	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	03/06/18 04:00	
Lactic Acid	1.0 U	1.0	1	03/06/18 04:00	
Propionic Acid	1.0 U	1.0	1	03/06/18 04:00	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/28/18 10:40
Date Received: 02/28/18 14:40

Sample Name: BAT-DW-9-180228
Lab Code: R1801690-015

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	03/06/18 04:42	
Acetic Acid	1.0 U	1.0	1	03/06/18 04:42	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	03/06/18 04:42	
Lactic Acid	1.0 U	1.0	1	03/06/18 04:42	
Propionic Acid	1.0 U	1.0	1	03/06/18 04:42	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/28/18 11:10
Date Received: 02/28/18 14:40

Sample Name: BAT-B-10A (1) 180228
Lab Code: R1801690-016

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	03/06/18 05:27	
Acetic Acid	97	1.0	1	03/06/18 05:27	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	03/06/18 05:27	
Lactic Acid	1.0 U	1.0	1	03/06/18 05:27	
Propionic Acid	4.1	1.0	1	03/08/18 16:18	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/28/18 11:40
Date Received: 02/28/18 14:40

Sample Name: BAT-87-13 (1) 180228
Lab Code: R1801690-017

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	2.5 U	2.5	5	03/06/18 12:36	
Acetic Acid	490	5.0	5	03/06/18 12:36	
Butanoic Acid (Butyric Acid)	10 U	10	5	03/06/18 12:36	
Lactic Acid	8.2	5.0	5	03/06/18 12:36	
Propionic Acid	57	5.0	5	03/08/18 17:03	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/28/18 12:10
Date Received: 02/28/18 14:40

Sample Name: BAT-87-17 (1) 180228
Lab Code: R1801690-018

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	03/06/18 07:45	
Acetic Acid	1.0 U	1.0	1	03/06/18 07:45	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	03/06/18 07:45	
Lactic Acid	1.0 U	1.0	1	03/06/18 07:45	
Propionic Acid	1.0 U	1.0	1	03/06/18 07:45	



General Chemistry

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

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-87-02 (1) 180227
Lab Code: R1801690-001

Service Request: R1801690
Date Collected: 02/27/18 09:35
Date Received: 02/27/18 17:10
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	589	mg/L	2.0	1	03/08/18 10:48	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	589	mg/L	2.0	1	03/08/18 10:48	
Carbon Dioxide	SM 4500-CO2 D	648	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	143	mg/L	20	20	03/08/18 19:31	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	03/08/18 10:48	
Chloride	9056A	619	mg/L	20	100	03/06/18 18:35	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	23.1	mg/L	4.0	40	02/27/18 18:35	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	02/28/18 15:57	
Sulfate	9056A	31.9	mg/L	2.0	10	02/28/18 15:57	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-87-01 (1) 180227
Lab Code: R1801690-002

Service Request: R1801690
Date Collected: 02/27/18 10:10
Date Received: 02/27/18 17:10
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	547	mg/L	2.0	1	03/08/18 10:54	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	547	mg/L	2.0	1	03/08/18 10:54	
Carbon Dioxide	SM 4500-CO2 D	532	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	65.7	mg/L	4.0	4	03/08/18 21:16	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	03/08/18 10:54	
Chloride	9056A	780	mg/L	60	300	03/01/18 08:11	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.14	mg/L	0.10	1	02/27/18 18:35	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	02/28/18 16:09	
Sulfate	9056A	18.8	mg/L	2.0	10	02/28/18 16:09	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-87-12 (1) 180227
Lab Code: R1801690-003

Service Request: R1801690
Date Collected: 02/27/18 10:35
Date Received: 02/27/18 17:10
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	212	mg/L	2.0	1	03/08/18 10:59	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	212	mg/L	2.0	1	03/08/18 10:59	
Carbon Dioxide	SM 4500-CO2 D	192	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	3.0	mg/L	1.0	1	03/08/18 21:37	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	03/08/18 10:59	
Chloride	9056A	429	mg/L	20	100	03/06/18 18:46	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.10 U	mg/L	0.10	1	02/27/18 18:35	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	02/28/18 16:20	
Sulfate	9056A	312	mg/L	20	100	03/06/18 18:46	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-87-20 (1) 180227
Lab Code: R1801690-004

Service Request: R1801690
Date Collected: 02/27/18 11:05
Date Received: 02/27/18 17:10
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	218	mg/L	2.0	1	03/08/18 11:05	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	218	mg/L	2.0	1	03/08/18 11:05	
Carbon Dioxide	SM 4500-CO2 D	197	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	3.5	mg/L	1.0	1	03/08/18 21:58	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	03/08/18 11:05	
Chloride	9056A	630	mg/L	20	100	03/07/18 09:41	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.17	mg/L	0.10	1	02/27/18 18:35	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	02/28/18 16:55	
Sulfate	9056A	338	mg/L	20	100	03/07/18 09:41	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-87-22 (1) 180227
Lab Code: R1801690-005

Service Request: R1801690
Date Collected: 02/27/18 11:30
Date Received: 02/27/18 17:10
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	407	mg/L	2.0	1	03/08/18 11:10	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	407	mg/L	2.0	1	03/08/18 11:10	
Carbon Dioxide	SM 4500-CO2 D	371	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	4.0	mg/L	1.0	1	03/08/18 22:19	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	03/08/18 11:10	
Chloride	9056A	92.4	mg/L	2.0	10	02/28/18 21:33	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.10 U	mg/L	0.10	1	02/28/18 15:40	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	02/28/18 21:33	
Sulfate	9056A	1050	mg/L	60	300	03/01/18 13:01	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-89-12 (1) 180227
Lab Code: R1801690-006

Service Request: R1801690
Date Collected: 02/27/18 12:50
Date Received: 02/27/18 17:10
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	308	mg/L	2.0	1	03/08/18 11:16	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	308	mg/L	2.0	1	03/08/18 11:16	
Carbon Dioxide	SM 4500-CO2 D	278	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	4.7	mg/L	1.0	1	03/08/18 22:39	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	03/08/18 11:16	
Chloride	9056A	531	mg/L	60	300	03/01/18 10:19	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.11	mg/L	0.10	1	02/27/18 18:35	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	02/28/18 17:06	
Sulfate	9056A	822	mg/L	60	300	03/01/18 10:19	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-DW-12-180227
Lab Code: R1801690-007

Service Request: R1801690
Date Collected: 02/27/18 13:05
Date Received: 02/27/18 17:10

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	64.0	mg/L	2.0	1	03/08/18 11:22	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	64.0	mg/L	2.0	1	03/08/18 11:22	
Carbon Dioxide	SM 4500-CO2 D	56.6	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	2.2	mg/L	1.0	1	03/08/18 23:00	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	03/08/18 11:22	
Chloride	9056A	1100	mg/L	40	200	03/08/18 02:36	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.11	mg/L	0.10	1	02/27/18 18:35	H
Nitrate as Nitrogen	9056A	1.1	mg/L	1.0	10	02/28/18 17:18	
Sulfate	9056A	92.1	mg/L	2.0	10	02/28/18 17:18	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-89-10 (1) 180227
Lab Code: R1801690-008

Service Request: R1801690
Date Collected: 02/27/18 13:30
Date Received: 02/27/18 17:10
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	400	mg/L	2.0	1	03/08/18 11:28	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	400	mg/L	2.0	1	03/08/18 11:28	
Carbon Dioxide	SM 4500-CO2 D	364	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	48.8	mg/L	4.0	4	03/08/18 23:21	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	03/08/18 11:28	
Chloride	9056A	961	mg/L	60	300	03/01/18 11:40	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.10 U	mg/L	0.10	1	02/27/18 18:35	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	02/28/18 17:30	
Sulfate	9056A	678	mg/L	60	300	03/01/18 11:40	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-DW-11-180227
Lab Code: R1801690-009

Service Request: R1801690
Date Collected: 02/27/18 13:40
Date Received: 02/27/18 17:10
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	133	mg/L	2.0	1	03/08/18 11:35	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	133	mg/L	2.0	1	03/08/18 11:35	
Carbon Dioxide	SM 4500-CO2 D	119	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	6.8	mg/L	1.0	1	03/08/18 23:42	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	03/08/18 11:35	
Chloride	9056A	976	mg/L	40	200	03/07/18 00:10	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.10 U	mg/L	0.10	1	02/27/18 18:35	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	02/28/18 17:41	
Sulfate	9056A	246	mg/L	10	50	03/01/18 11:52	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-B-14 (1) 180227
Lab Code: R1801690-010

Service Request: R1801690
Date Collected: 02/27/18 14:10
Date Received: 02/27/18 17:10
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	298	mg/L	2.0	1	03/08/18 11:50	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	298	mg/L	2.0	1	03/08/18 11:50	
Carbon Dioxide	SM 4500-CO2 D	265	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	4.1	mg/L	1.0	1	03/09/18 00:03	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	03/08/18 11:50	
Chloride	9056A	141	mg/L	6.0	30	03/01/18 12:03	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.10 U	mg/L	0.10	1	02/27/18 18:35	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	02/28/18 17:53	
Sulfate	9056A	983	mg/L	60	300	03/01/18 12:15	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-87-09 (1) 180227
Lab Code: R1801690-011

Service Request: R1801690
Date Collected: 02/27/18 14:40
Date Received: 02/27/18 17:10
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	298	mg/L	2.0	1	03/08/18 11:55	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	298	mg/L	2.0	1	03/08/18 11:55	
Carbon Dioxide	SM 4500-CO2 D	267	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	3.6	mg/L	1.0	1	03/08/18 03:14	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	03/08/18 11:55	
Chloride	9056A	133	mg/L	6.0	30	03/01/18 12:27	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.10 U	mg/L	0.10	1	02/27/18 18:35	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	02/28/18 18:04	
Sulfate	9056A	988	mg/L	60	300	03/01/18 12:38	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-89-15 (1) 180228
Lab Code: R1801690-012

Service Request: R1801690
Date Collected: 02/28/18 09:40
Date Received: 02/28/18 14:40
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	595	mg/L	2.0	1	03/08/18 12:02	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	595	mg/L	2.0	1	03/08/18 12:02	
Carbon Dioxide	SM 4500-CO2 D	534	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	83	mg/L	10	10	03/09/18 00:24	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	03/08/18 12:02	
Chloride	9056A	83.3	mg/L	2.0	10	02/28/18 21:44	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.14	mg/L	0.10	1	02/28/18 15:40	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	02/28/18 21:44	
Sulfate	9056A	63.3	mg/L	2.0	10	02/28/18 21:44	

ALS Group USA, Corp.
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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-DW-10-180228
Lab Code: R1801690-013

Service Request: R1801690
Date Collected: 02/28/18 09:55
Date Received: 02/28/18 14:40

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	170	mg/L	2.0	1	03/08/18 12:08	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	170	mg/L	2.0	1	03/08/18 12:08	
Carbon Dioxide	SM 4500-CO2 D	152	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	54	mg/L	10	10	03/09/18 01:48	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	03/08/18 12:08	
Chloride	9056A	31.6	mg/L	2.0	10	02/28/18 21:56	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	3.1	mg/L	1.0	10	02/28/18 15:40	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	02/28/18 21:56	
Sulfate	9056A	88.0	mg/L	2.0	10	02/28/18 21:56	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-87-08 (1) 180228
Lab Code: R1801690-014

Service Request: R1801690
Date Collected: 02/28/18 10:30
Date Received: 02/28/18 14:40
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	476	mg/L	2.0	1	03/08/18 12:14	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	476	mg/L	2.0	1	03/08/18 12:14	
Carbon Dioxide	SM 4500-CO2 D	426	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	45.8	mg/L	4.0	4	03/09/18 02:08	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	03/08/18 12:14	
Chloride	9056A	16.1	mg/L	2.0	10	02/28/18 22:08	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.16	mg/L	0.10	1	02/28/18 15:40	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	02/28/18 22:08	
Sulfate	9056A	96.1	mg/L	2.0	10	02/28/18 22:08	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-DW-9-180228
Lab Code: R1801690-015

Service Request: R1801690
Date Collected: 02/28/18 10:40
Date Received: 02/28/18 14:40
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	168	mg/L	2.0	1	03/08/18 12:20	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	168	mg/L	2.0	1	03/08/18 12:20	
Carbon Dioxide	SM 4500-CO2 D	150	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	5.9	mg/L	1.0	1	03/08/18 04:37	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	03/08/18 12:20	
Chloride	9056A	9.5	mg/L	2.0	10	02/28/18 22:19	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.10 U	mg/L	0.10	1	02/28/18 15:40	H
Nitrate as Nitrogen	9056A	5.1	mg/L	1.0	10	02/28/18 22:19	
Sulfate	9056A	78.2	mg/L	2.0	10	02/28/18 22:19	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-B-10A (1) 180228
Lab Code: R1801690-016

Service Request: R1801690
Date Collected: 02/28/18 11:10
Date Received: 02/28/18 14:40
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	537	mg/L	2.0	1	03/08/18 12:26	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	537	mg/L	2.0	1	03/08/18 12:26	
Carbon Dioxide	SM 4500-CO2 D	475	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	53.5	mg/L	4.0	4	03/09/18 03:11	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	03/08/18 12:26	
Chloride	9056A	91.1	mg/L	2.0	10	02/28/18 22:31	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.10 U	mg/L	0.10	1	02/28/18 15:40	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	02/28/18 22:31	
Sulfate	9056A	96.2	mg/L	2.0	10	02/28/18 22:31	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-87-13 (1) 180228
Lab Code: R1801690-017

Service Request: R1801690
Date Collected: 02/28/18 11:40
Date Received: 02/28/18 14:40
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	941	mg/L	2.0	1	03/08/18 12:33	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	941	mg/L	2.0	1	03/08/18 12:33	
Carbon Dioxide	SM 4500-CO2 D	853	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	320	mg/L	100	100	03/09/18 03:53	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	03/08/18 12:33	
Chloride	9056A	321	mg/L	20	100	03/01/18 14:22	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.10 U	mg/L	0.10	1	02/28/18 15:40	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	02/28/18 22:42	
Sulfate	9056A	612	mg/L	20	100	03/01/18 14:22	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-87-17 (1) 180228
Lab Code: R1801690-018

Service Request: R1801690
Date Collected: 02/28/18 12:10
Date Received: 02/28/18 14:40
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	292	mg/L	2.0	1	03/08/18 12:39	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	292	mg/L	2.0	1	03/08/18 12:39	
Carbon Dioxide	SM 4500-CO2 D	258	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	4.3	mg/L	1.0	1	03/09/18 03:32	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	03/08/18 12:39	
Chloride	9056A	157	mg/L	6.0	30	03/01/18 14:34	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.17	mg/L	0.10	1	02/28/18 15:40	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	02/28/18 22:54	
Sulfate	9056A	1060	mg/L	60	300	03/01/18 14:46	



Field Data

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

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-87-02 (1) 180227
Lab Code: R1801690-001

Service Request: R1801690
Date Collected: 02/27/18 09:35
Date Received: 02/27/18 17:10
Basis: NA

Field Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
pH, Field	SM 4500-H+ B	6.96	pH Units	-	1	02/28/18 09:35	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-87-01 (1) 180227
Lab Code: R1801690-002

Service Request: R1801690
Date Collected: 02/27/18 10:10
Date Received: 02/27/18 17:10
Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
pH, Field	SM 4500-H+ B	7.34	pH Units	-	1	02/28/18 10:10	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-87-12 (1) 180227
Lab Code: R1801690-003

Service Request: R1801690
Date Collected: 02/27/18 10:35
Date Received: 02/27/18 17:10
Basis: NA

Field Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
pH, Field	SM 4500-H+ B	7.96	pH Units	-	1	02/28/18 10:35	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-87-20 (1) 180227
Lab Code: R1801690-004

Service Request: R1801690
Date Collected: 02/27/18 11:05
Date Received: 02/27/18 17:10
Basis: NA

Field Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
pH, Field	SM 4500-H+ B	7.96	pH Units	-	1	02/28/18 11:05	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-87-22 (1) 180227
Lab Code: R1801690-005

Service Request: R1801690
Date Collected: 02/27/18 11:30
Date Received: 02/27/18 17:10
Basis: NA

Field Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
pH, Field	SM 4500-H+ B	7.81	pH Units	-	1	02/28/18 11:30	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-89-12 (1) 180227
Lab Code: R1801690-006

Service Request: R1801690
Date Collected: 02/27/18 12:50
Date Received: 02/27/18 17:10
Basis: NA

Field Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
pH, Field	SM 4500-H+ B	7.95	pH Units	-	1	02/28/18 12:50	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-DW-12-180227
Lab Code: R1801690-007

Service Request: R1801690
Date Collected: 02/27/18 13:05
Date Received: 02/27/18 17:10
Basis: NA

Field Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
pH, Field	SM 4500-H+ B	8.70	pH Units	-	1	02/28/18 13:05	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-89-10 (1) 180227
Lab Code: R1801690-008

Service Request: R1801690
Date Collected: 02/27/18 13:30
Date Received: 02/27/18 17:10
Basis: NA

Field Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
pH, Field	SM 4500-H+ B	7.82	pH Units	-	1	02/28/18 13:30	

ALS Group USA, Corp.
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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-DW-11-180227
Lab Code: R1801690-009

Service Request: R1801690
Date Collected: 02/27/18 13:40
Date Received: 02/27/18 17:10
Basis: NA

Field Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
pH, Field	SM 4500-H+ B	8.13	pH Units	-	1	02/28/18 13:40	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-B-14 (1) 180227
Lab Code: R1801690-010

Service Request: R1801690
Date Collected: 02/27/18 14:10
Date Received: 02/27/18 17:10
Basis: NA

Field Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
pH, Field	SM 4500-H+ B	8.23	pH Units	-	1	02/28/18 14:10	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-87-09 (1) 180227
Lab Code: R1801690-011

Service Request: R1801690
Date Collected: 02/27/18 14:40
Date Received: 02/27/18 17:10
Basis: NA

Field Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
pH, Field	SM 4500-H+ B	8.07	pH Units	-	1	02/28/18 14:40	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-89-15 (1) 180228
Lab Code: R1801690-012

Service Request: R1801690
Date Collected: 02/28/18 09:40
Date Received: 02/28/18 14:40
Basis: NA

Field Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
pH, Field	SM 4500-H+ B	8.06	pH Units	-	1	02/28/18 09:40	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-DW-10-180228
Lab Code: R1801690-013

Service Request: R1801690
Date Collected: 02/28/18 09:55
Date Received: 02/28/18 14:40
Basis: NA

Field Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
pH, Field	SM 4500-H+ B	8.21	pH Units	-	1	02/28/18 09:55	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-87-08 (1) 180228
Lab Code: R1801690-014

Service Request: R1801690
Date Collected: 02/28/18 10:30
Date Received: 02/28/18 14:40
Basis: NA

Field Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
pH, Field	SM 4500-H+ B	8.18	pH Units	-	1	02/28/18 10:30	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-DW-9-180228
Lab Code: R1801690-015

Service Request: R1801690
Date Collected: 02/28/18 10:40
Date Received: 02/28/18 14:40
Basis: NA

Field Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
pH, Field	SM 4500-H+ B	8.28	pH Units	-	1	02/28/18 10:40	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-B-10A (1) 180228
Lab Code: R1801690-016

Service Request: R1801690
Date Collected: 02/28/18 11:10
Date Received: 02/28/18 14:40
Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
pH, Field	SM 4500-H+ B	8.64	pH Units	-	1	02/28/18 11:10	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-87-13 (1) 180228
Lab Code: R1801690-017

Service Request: R1801690
Date Collected: 02/28/18 11:40
Date Received: 02/28/18 14:40
Basis: NA

Field Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
pH, Field	SM 4500-H+ B	7.87	pH Units	-	1	02/28/18 11:40	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: BAT-87-17 (1) 180228
Lab Code: R1801690-018

Service Request: R1801690
Date Collected: 02/28/18 12:10
Date Received: 02/28/18 14:40
Basis: NA

Field Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
pH, Field	SM 4500-H+ B	8.50	pH Units	-	1	02/28/18 12:10	



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

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QA/QC Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
		85 - 122	89 - 119	87 - 121
BAT-87-02 (1) 180227	R1801690-001	100	99	102
BAT-87-01 (1) 180227	R1801690-002	96	99	101
BAT-87-12 (1) 180227	R1801690-003	104	105	108
BAT-87-20 (1) 180227	R1801690-004	108	107	110
BAT-87-22 (1) 180227	R1801690-005	94	95	97
BAT-89-12 (1) 180227	R1801690-006	106	106	109
BAT-DW-12-180227	R1801690-007	94	94	97
BAT-89-10 (1) 180227	R1801690-008	107	108	111
BAT-DW-11-180227	R1801690-009	99	101	102
BAT-B-14 (1) 180227	R1801690-010	92	96	97
BAT-87-09 (1) 180227	R1801690-011	96	99	100
BAT-89-15 (1) 180228	R1801690-012	94	94	97
BAT-DW-10-180228	R1801690-013	93	93	95
BAT-87-08 (1) 180228	R1801690-014	105	106	109
BAT-DW-9-180228	R1801690-015	96	96	100
BAT-B-10A (1) 180228	R1801690-016	92	95	97
BAT-87-13 (1) 180228	R1801690-017	99	98	102
BAT-87-17 (1) 180228	R1801690-018	92	94	96
Trip blank	R1801690-019	105	100	107
Lab Control Sample	RQ1801968-03	100	100	102
Method Blank	RQ1801968-04	98	96	103
Lab Control Sample	RQ1802014-03	97	96	100
Method Blank	RQ1802014-04	94	94	98
BAT-87-13 (1) 180228 MS	RQ1802014-05	110	107	110
BAT-87-13 (1) 180228 DMS	RQ1802014-06	103	105	107
Lab Control Sample	RQ1802045-03	96	95	99
Method Blank	RQ1802045-04	95	93	98
BAT-87-02 (1) 180227 MS	RQ1802045-05	96	97	98
BAT-87-02 (1) 180227 DMS	RQ1802045-06	94	96	97

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QA/QC Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/28/18
Date Received: 02/28/18
Date Analyzed: 03/5/18
Date Extracted: NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: BAT-87-13 (1) 180228
Lab Code: R1801690-017
Analysis Method: 8260C
Prep Method: EPA 5030C

Units: ug/L
Basis: NA

Analyte Name	Matrix Spike RQ1802014-05				Duplicate Matrix Spike RQ1802014-06				RPD	RPD Limit
	Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits		
Chloromethane	1000 U	39800	50000	80	38200	50000	76	55-160	4	30
Vinyl Chloride	2200 D	57700	50000	111	55700	50000	107	60-157	4	30
Chloroethane	1000 U	54700	50000	109	49500	50000	99	70-140	10	30
Bromomethane	1000 U	17400	50000	35	18100	50000	36	10-162	4	30
1,1-Dichloroethene	1000 U	56300	50000	113	55300	50000	111	74-139	2	30
Acetone	5000 U	43000	50000	86	41800	50000	84	29-151	3	30
Carbon Disulfide	1000 U	54000	50000	108	54500	50000	109	34-162	<1	30
Methylene Chloride	87000 D	140000	50000	105	136000	50000	97	75-121	3	30
trans-1,2-Dichloroethene	1000 U	55900	50000	112	54900	50000	110	77-125	2	30
1,1-Dichloroethane	360 DJ	59500	50000	118	58600	50000	117	74-132	1	30
cis-1,2-Dichloroethene	38000 D	90000	50000	104	87000	50000	98	72-133	3	30
2-Butanone (MEK)	5000 U	53100	50000	106	51500	50000	103	46-141	3	30
Chloroform	1000 U	55400	50000	111	54600	50000	109	75-130	2	30
1,1,1-Trichloroethane	1600 D	55000	50000	107	53600	50000	104	74-127	3	30
Carbon Tetrachloride	1000 U	49300	50000	99	48200	50000	96	65-135	2	30
Benzene	1000 U	54000	50000	108	53000	50000	106	76-129	2	30
1,2-Dichloroethane	1000 U	54100	50000	108	53100	50000	106	68-130	2	30
Trichloroethene	65000 D	116000	50000	102	110000	50000	90	62-142	5	30
1,2-Dichloropropane	1000 U	54600	50000	109	54100	50000	108	79-124	<1	30
Bromodichloromethane	1000 U	51400	50000	103	50600	50000	101	76-127	2	30
cis-1,3-Dichloropropene	1000 U	50200	50000	100	50300	50000	101	52-134	<1	30
4-Methyl-2-pentanone (MIBK)	5000 U	52100	50000	104	51000	50000	102	60-141	2	30
Toluene	1000 U	52800	50000	106	50200	50000	100	79-125	5	30
trans-1,3-Dichloropropene	1000 U	47800	50000	96	47000	50000	94	50-142	2	30
1,1,2-Trichloroethane	1000 U	50900	50000	102	49800	50000	100	79-119	2	30
Tetrachloroethene	1000 U	48300	50000	97	45900	50000	92	67-137	5	30
2-Hexanone	5000 U	50100	50000	100	48600	50000	97	56-132	3	30
Dibromochloromethane	1000 U	48600	50000	97	47800	50000	96	72-128	2	30
Chlorobenzene	1000 U	50100	50000	100	47700	50000	95	76-125	5	30
Ethylbenzene	1000 U	52100	50000	104	49200	50000	98	72-134	6	30
m,p-Xylenes	2000 U	103000	100000	103	96500	100000	96	68-138	6	30
o-Xylene	1000 U	51600	50000	103	49000	50000	98	68-134	5	30
Styrene	1000 U	51600	50000	103	48600	50000	97	34-156	6	30
Bromoform	1000 U	44000	50000	88	42900	50000	86	58-133	3	30
1,1,1,2-Tetrachloroethane	1000 U	51600	50000	103	50600	50000	101	72-122	2	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.

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QA/QC Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/27/18
Date Received: 02/27/18
Date Analyzed: 03/2/18
Date Extracted: NA

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: BAT-87-02 (1) 180227
Lab Code: R1801690-001
Analysis Method: 8260C
Prep Method: EPA 5030C

Units: ug/L
Basis: NA

Analyte Name	Matrix Spike RQ1802045-05				Duplicate Matrix Spike RQ1802045-06				% Rec Limits	RPD	RPD Limit
	Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec				
Chloromethane	10 U	377	500	75	404	500	81	55-160	7	30	
Vinyl Chloride	530	1060	500	107	1120	500	118	60-157	5	30	
Chloroethane	10 U	554	500	111	577	500	115	70-140	4	30	
Bromomethane	10 U	201	500	40	219	500	44	10-162	9	30	
1,1-Dichloroethene	6.5 J	507	500	100	561	500	111	74-139	10	30	
Acetone	50 U	422	500	84	428	500	86	29-151	1	30	
Carbon Disulfide	21	475	500	91	554	500	107	34-162	15	30	
Methylene Chloride	220	729	500	103	766	500	110	75-121	5	30	
trans-1,2-Dichloroethene	8.2 J	517	500	102	559	500	110	77-125	8	30	
1,1-Dichloroethane	19	560	500	108	604	500	117	74-132	8	30	
cis-1,2-Dichloroethene	2800 D	3400 E	500	115 #	3550 E	500	144 #	72-133	4	30	
2-Butanone (MEK)	50 U	503	500	101	502	500	100	46-141	<1	30	
Chloroform	10 U	517	500	103	552	500	110	75-130	7	30	
1,1,1-Trichloroethane	16	508	500	98	547	500	106	74-127	7	30	
Carbon Tetrachloride	10 U	453	500	91	491	500	98	65-135	8	30	
Benzene	10 U	499	500	100	539	500	108	76-129	8	30	
1,2-Dichloroethane	10 U	516	500	103	529	500	106	68-130	3	30	
Trichloroethene	63	523	500	92	560	500	99	62-142	7	30	
1,2-Dichloropropane	10 U	520	500	104	546	500	109	79-124	5	30	
Bromodichloromethane	10 U	492	500	98	515	500	103	76-127	5	30	
cis-1,3-Dichloropropene	10 U	478	500	96	505	500	101	52-134	5	30	
4-Methyl-2-pentanone (MIBK)	50 U	506	500	101	511	500	102	60-141	<1	30	
Toluene	10 U	491	500	98	520	500	104	79-125	6	30	
trans-1,3-Dichloropropene	10 U	455	500	91	479	500	96	50-142	5	30	
1,1,2-Trichloroethane	10 U	495	500	99	515	500	103	79-119	4	30	
Tetrachloroethene	10 U	446	500	89	470	500	94	67-137	5	30	
2-Hexanone	50 U	482	500	96	486	500	97	56-132	<1	30	
Dibromochloromethane	10 U	465	500	93	477	500	95	72-128	3	30	
Chlorobenzene	10 U	470	500	94	492	500	98	76-125	4	30	
Ethylbenzene	10 U	480	500	96	510	500	102	72-134	6	30	
m,p-Xylenes	20 U	955	1000	95	1010	1000	101	68-138	5	30	
o-Xylene	10 U	486	500	97	515	500	103	68-134	6	30	
Styrene	10 U	491	500	98	507	500	101	34-156	3	30	
Bromoform	10 U	423	500	85	435	500	87	58-133	3	30	
1,1,2,2-Tetrachloroethane	10 U	500	500	100	509	500	102	72-122	2	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.

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1801968-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	03/06/18 12:47	
Vinyl Chloride	1.0 U	1.0	0.32	1	03/06/18 12:47	
Chloroethane	1.0 U	1.0	0.24	1	03/06/18 12:47	
Bromomethane	1.0 U	1.0	0.29	1	03/06/18 12:47	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	03/06/18 12:47	
Acetone	5.0 U	5.0	1.3	1	03/06/18 12:47	
Carbon Disulfide	1.0 U	1.0	0.22	1	03/06/18 12:47	
Methylene Chloride	1.0 U	1.0	0.60	1	03/06/18 12:47	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	03/06/18 12:47	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	03/06/18 12:47	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	03/06/18 12:47	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	03/06/18 12:47	
Chloroform	1.0 U	1.0	0.25	1	03/06/18 12:47	
1,1,1-Trichloroethane	1.0 U	1.0	0.36	1	03/06/18 12:47	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	03/06/18 12:47	
Benzene	1.0 U	1.0	0.20	1	03/06/18 12:47	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	03/06/18 12:47	
Trichloroethene	1.0 U	1.0	0.22	1	03/06/18 12:47	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	03/06/18 12:47	
Bromodichloromethane	1.0 U	1.0	0.32	1	03/06/18 12:47	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	03/06/18 12:47	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	03/06/18 12:47	
Toluene	1.0 U	1.0	0.20	1	03/06/18 12:47	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	03/06/18 12:47	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	03/06/18 12:47	
Tetrachloroethene	1.0 U	1.0	0.30	1	03/06/18 12:47	
2-Hexanone	5.0 U	5.0	1.7	1	03/06/18 12:47	
Dibromochloromethane	1.0 U	1.0	0.31	1	03/06/18 12:47	
Chlorobenzene	1.0 U	1.0	0.29	1	03/06/18 12:47	
Ethylbenzene	1.0 U	1.0	0.20	1	03/06/18 12:47	
m,p-Xylenes	2.0 U	2.0	0.33	1	03/06/18 12:47	
o-Xylene	1.0 U	1.0	0.20	1	03/06/18 12:47	
Styrene	1.0 U	1.0	0.20	1	03/06/18 12:47	
Bromoform	1.0 U	1.0	0.42	1	03/06/18 12:47	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	03/06/18 12:47	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ1801968-04

Service Request: R1801690
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	03/06/18 12:47	
Toluene-d8	103	87 - 121	03/06/18 12:47	
Dibromofluoromethane	96	89 - 119	03/06/18 12:47	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ1802014-04

Service Request: R1801690
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	03/05/18 15:34	
Vinyl Chloride	1.0 U	1.0	0.32	1	03/05/18 15:34	
Chloroethane	1.0 U	1.0	0.24	1	03/05/18 15:34	
Bromomethane	1.0 U	1.0	0.29	1	03/05/18 15:34	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	03/05/18 15:34	
Acetone	5.0 U	5.0	1.3	1	03/05/18 15:34	
Carbon Disulfide	1.0 U	1.0	0.22	1	03/05/18 15:34	
Methylene Chloride	1.0 U	1.0	0.60	1	03/05/18 15:34	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	03/05/18 15:34	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	03/05/18 15:34	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	03/05/18 15:34	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	03/05/18 15:34	
Chloroform	1.0 U	1.0	0.25	1	03/05/18 15:34	
1,1,1-Trichloroethane	1.0 U	1.0	0.36	1	03/05/18 15:34	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	03/05/18 15:34	
Benzene	1.0 U	1.0	0.20	1	03/05/18 15:34	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	03/05/18 15:34	
Trichloroethene	1.0 U	1.0	0.22	1	03/05/18 15:34	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	03/05/18 15:34	
Bromodichloromethane	1.0 U	1.0	0.32	1	03/05/18 15:34	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	03/05/18 15:34	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	03/05/18 15:34	
Toluene	1.0 U	1.0	0.20	1	03/05/18 15:34	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	03/05/18 15:34	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	03/05/18 15:34	
Tetrachloroethene	1.0 U	1.0	0.30	1	03/05/18 15:34	
2-Hexanone	5.0 U	5.0	1.7	1	03/05/18 15:34	
Dibromochloromethane	1.0 U	1.0	0.31	1	03/05/18 15:34	
Chlorobenzene	1.0 U	1.0	0.29	1	03/05/18 15:34	
Ethylbenzene	1.0 U	1.0	0.20	1	03/05/18 15:34	
m,p-Xylenes	2.0 U	2.0	0.33	1	03/05/18 15:34	
o-Xylene	1.0 U	1.0	0.20	1	03/05/18 15:34	
Styrene	1.0 U	1.0	0.20	1	03/05/18 15:34	
Bromoform	1.0 U	1.0	0.42	1	03/05/18 15:34	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	03/05/18 15:34	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1802014-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	03/05/18 15:34	
Toluene-d8	98	87 - 121	03/05/18 15:34	
Dibromofluoromethane	94	89 - 119	03/05/18 15:34	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ1802045-04

Service Request: R1801690
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	03/02/18 13:19	
Vinyl Chloride	1.0 U	1.0	0.32	1	03/02/18 13:19	
Chloroethane	1.0 U	1.0	0.24	1	03/02/18 13:19	
Bromomethane	1.0 U	1.0	0.29	1	03/02/18 13:19	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	03/02/18 13:19	
Acetone	5.0 U	5.0	1.3	1	03/02/18 13:19	
Carbon Disulfide	0.23 J	1.0	0.22	1	03/02/18 13:19	
Methylene Chloride	1.0 U	1.0	0.60	1	03/02/18 13:19	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	03/02/18 13:19	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	03/02/18 13:19	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	03/02/18 13:19	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	03/02/18 13:19	
Chloroform	1.0 U	1.0	0.25	1	03/02/18 13:19	
1,1,1-Trichloroethane	1.0 U	1.0	0.36	1	03/02/18 13:19	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	03/02/18 13:19	
Benzene	1.0 U	1.0	0.20	1	03/02/18 13:19	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	03/02/18 13:19	
Trichloroethene	1.0 U	1.0	0.22	1	03/02/18 13:19	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	03/02/18 13:19	
Bromodichloromethane	1.0 U	1.0	0.32	1	03/02/18 13:19	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	03/02/18 13:19	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	03/02/18 13:19	
Toluene	1.0 U	1.0	0.20	1	03/02/18 13:19	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	03/02/18 13:19	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	03/02/18 13:19	
Tetrachloroethene	1.0 U	1.0	0.30	1	03/02/18 13:19	
2-Hexanone	5.0 U	5.0	1.7	1	03/02/18 13:19	
Dibromochloromethane	1.0 U	1.0	0.31	1	03/02/18 13:19	
Chlorobenzene	1.0 U	1.0	0.29	1	03/02/18 13:19	
Ethylbenzene	1.0 U	1.0	0.20	1	03/02/18 13:19	
m,p-Xylenes	2.0 U	2.0	0.33	1	03/02/18 13:19	
o-Xylene	1.0 U	1.0	0.20	1	03/02/18 13:19	
Styrene	1.0 U	1.0	0.20	1	03/02/18 13:19	
Bromoform	1.0 U	1.0	0.42	1	03/02/18 13:19	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	03/02/18 13:19	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ1802045-04

Service Request: R1801690
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	03/02/18 13:19	
Toluene-d8	98	87 - 121	03/02/18 13:19	
Dibromofluoromethane	93	89 - 119	03/02/18 13:19	

ALS Group USA, Corp.
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QA/QC Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Analyzed: 03/06/18

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1801968-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chloromethane	8260C	21.5	20.0	108	69-145
Vinyl Chloride	8260C	19.5	20.0	98	69-133
Chloroethane	8260C	15.3	20.0	76	70-127
Bromomethane	8260C	14.9	20.0	74	42-166
1,1-Dichloroethene	8260C	17.7	20.0	88	74-135
Acetone	8260C	21.8	20.0	109	40-161
Carbon Disulfide	8260C	21.2	20.0	106	65-127
Methylene Chloride	8260C	21.2	20.0	106	73-122
trans-1,2-Dichloroethene	8260C	19.4	20.0	97	80-120
1,1-Dichloroethane	8260C	20.6	20.0	103	78-117
cis-1,2-Dichloroethene	8260C	20.0	20.0	100	80-121
2-Butanone (MEK)	8260C	24.0	20.0	120	61-137
Chloroform	8260C	19.2	20.0	96	76-120
1,1,1-Trichloroethane	8260C	16.9	20.0	84	74-120
Carbon Tetrachloride	8260C	16.7	20.0	84	68-125
Benzene	8260C	20.1	20.0	100	76-118
1,2-Dichloroethane	8260C	19.9	20.0	99	71-127
Trichloroethene	8260C	18.4	20.0	92	78-123
1,2-Dichloropropane	8260C	20.4	20.0	102	80-119
Bromodichloromethane	8260C	17.6	20.0	88	78-126
cis-1,3-Dichloropropene	8260C	20.1	20.0	100	74-126
4-Methyl-2-pentanone (MIBK)	8260C	22.2	20.0	111	66-124
Toluene	8260C	19.4	20.0	97	77-120
trans-1,3-Dichloropropene	8260C	19.8	20.0	99	67-135
1,1,2-Trichloroethane	8260C	19.2	20.0	96	82-118
Tetrachloroethene	8260C	18.2	20.0	91	78-124
2-Hexanone	8260C	21.1	20.0	106	63-124
Dibromochloromethane	8260C	18.1	20.0	91	77-128
Chlorobenzene	8260C	19.2	20.0	96	80-121
Ethylbenzene	8260C	18.4	20.0	92	76-120
m,p-Xylenes	8260C	37.3	40.0	93	78-123
o-Xylene	8260C	18.8	20.0	94	80-120
Styrene	8260C	19.2	20.0	96	80-124

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QA/QC Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Analyzed: 03/06/18

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1801968-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Bromoform	8260C	17.8	20.0	89	71-136
1,1,2,2-Tetrachloroethane	8260C	20.6	20.0	103	78-122

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QA/QC Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Analyzed: 03/05/18

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1802014-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chloromethane	8260C	17.8	20.0	89	69-145
Vinyl Chloride	8260C	22.0	20.0	110	69-133
Chloroethane	8260C	19.6	20.0	98	70-127
Bromomethane	8260C	14.0	20.0	70	42-166
1,1-Dichloroethene	8260C	21.8	20.0	109	74-135
Acetone	8260C	16.9	20.0	85	40-161
Carbon Disulfide	8260C	20.2	20.0	101	65-127
Methylene Chloride	8260C	21.7	20.0	109	73-122
trans-1,2-Dichloroethene	8260C	21.8	20.0	109	80-120
1,1-Dichloroethane	8260C	22.9	20.0	115	78-117
cis-1,2-Dichloroethene	8260C	21.0	20.0	105	80-121
2-Butanone (MEK)	8260C	20.2	20.0	101	61-137
Chloroform	8260C	21.5	20.0	107	76-120
1,1,1-Trichloroethane	8260C	20.4	20.0	102	74-120
Carbon Tetrachloride	8260C	18.2	20.0	91	68-125
Benzene	8260C	21.1	20.0	105	76-118
1,2-Dichloroethane	8260C	20.6	20.0	103	71-127
Trichloroethene	8260C	20.3	20.0	101	78-123
1,2-Dichloropropane	8260C	21.3	20.0	106	80-119
Bromodichloromethane	8260C	19.7	20.0	98	78-126
cis-1,3-Dichloropropene	8260C	20.0	20.0	100	74-126
4-Methyl-2-pentanone (MIBK)	8260C	18.8	20.0	94	66-124
Toluene	8260C	20.0	20.0	100	77-120
trans-1,3-Dichloropropene	8260C	18.6	20.0	93	67-135
1,1,2-Trichloroethane	8260C	19.7	20.0	98	82-118
Tetrachloroethene	8260C	18.9	20.0	94	78-124
2-Hexanone	8260C	18.3	20.0	92	63-124
Dibromochloromethane	8260C	18.4	20.0	92	77-128
Chlorobenzene	8260C	19.6	20.0	98	80-121
Ethylbenzene	8260C	19.4	20.0	97	76-120
m,p-Xylenes	8260C	39.2	40.0	98	78-123
o-Xylene	8260C	19.6	20.0	98	80-120
Styrene	8260C	19.6	20.0	98	80-124

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QA/QC Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Analyzed: 03/05/18

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L

Basis:NA

Lab Control Sample

RQ1802014-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Bromoform	8260C	16.6	20.0	83	71-136
1,1,2,2-Tetrachloroethane	8260C	19.0	20.0	95	78-122

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QA/QC Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Analyzed: 03/02/18

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1802045-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chloromethane	8260C	16.7	20.0	84	69-145
Vinyl Chloride	8260C	19.3	20.0	96	69-133
Chloroethane	8260C	17.3	20.0	87	70-127
Bromomethane	8260C	15.0	20.0	75	42-166
1,1-Dichloroethene	8260C	19.5	20.0	97	74-135
Acetone	8260C	15.9	20.0	80	40-161
Carbon Disulfide	8260C	20.2	20.0	101	65-127
Methylene Chloride	8260C	21.5	20.0	108	73-122
trans-1,2-Dichloroethene	8260C	20.2	20.0	101	80-120
1,1-Dichloroethane	8260C	20.6	20.0	103	78-117
cis-1,2-Dichloroethene	8260C	19.7	20.0	98	80-121
2-Butanone (MEK)	8260C	18.7	20.0	94	61-137
Chloroform	8260C	20.0	20.0	100	76-120
1,1,1-Trichloroethane	8260C	18.4	20.0	92	74-120
Carbon Tetrachloride	8260C	16.4	20.0	82	68-125
Benzene	8260C	19.1	20.0	96	76-118
1,2-Dichloroethane	8260C	19.5	20.0	98	71-127
Trichloroethene	8260C	18.8	20.0	94	78-123
1,2-Dichloropropane	8260C	19.8	20.0	99	80-119
Bromodichloromethane	8260C	18.7	20.0	93	78-126
cis-1,3-Dichloropropene	8260C	19.2	20.0	96	74-126
4-Methyl-2-pentanone (MIBK)	8260C	17.9	20.0	90	66-124
Toluene	8260C	18.3	20.0	92	77-120
trans-1,3-Dichloropropene	8260C	18.3	20.0	92	67-135
1,1,2-Trichloroethane	8260C	19.2	20.0	96	82-118
Tetrachloroethene	8260C	17.1	20.0	85	78-124
2-Hexanone	8260C	17.2	20.0	86	63-124
Dibromochloromethane	8260C	17.5	20.0	87	77-128
Chlorobenzene	8260C	18.1	20.0	90	80-121
Ethylbenzene	8260C	18.1	20.0	90	76-120
m,p-Xylenes	8260C	35.8	40.0	89	78-123
o-Xylene	8260C	17.9	20.0	89	80-120
Styrene	8260C	18.2	20.0	91	80-124

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QA/QC Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Analyzed: 03/02/18

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1802045-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Bromoform	8260C	15.7	20.0	78	71-136
1,1,2,2-Tetrachloroethane	8260C	17.8	20.0	89	78-122



Volatile Organic Compounds by GC

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ1802126-01

Service Request: R1801690
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	1.0 U	1.0	1	03/08/18 12:34	
Ethene	1.0 U	1.0	1	03/08/18 12:34	
Methane	1.0 U	1.0	1	03/08/18 12:34	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1802129-01

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	1.0 U	1.0	1	03/09/18 11:27	
Ethene	1.0 U	1.0	1	03/09/18 11:27	
Methane	1.0 U	1.0	1	03/09/18 11:27	

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QA/QC Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Analyzed: 03/08/18

Duplicate Lab Control Sample Summary
Dissolved Gases by GC/FID

Units:ug/L
Basis:NA

Analyte Name	Analytical Method	Lab Control Sample RQ1802126-02			Duplicate Lab Control Sample RQ1802126-03			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Ethane	RSK 175	26.2	26.0	101	24.2	26.0	93	75-118	8	20
Ethene	RSK 175	27.2	24.3	112	26.0	24.3	107	73-129	4	20
Methane	RSK 175	26.2	26.2	100	24.4	26.2	93	65-126	7	20

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QA/QC Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Analyzed: 03/09/18

Duplicate Lab Control Sample Summary
Dissolved Gases by GC/FID

Units:ug/L
Basis:NA

Lab Control Sample
RQ1802129-02

Duplicate Lab Control Sample
RQ1802129-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Ethane	RSK 175	27.7	26.0	107	26.4	26.0	101	75-118	5	20
Ethene	RSK 175	24.9	24.3	103	23.9	24.3	99	73-129	4	20
Methane	RSK 175	28.3	26.2	108	27.2	26.2	104	65-126	4	20



Semivolatile Organic Compounds by GC

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1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
Phone (585) 288-5380 Fax (585) 288-8475
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QA/QC Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/28/18
Date Received: 02/28/18
Date Analyzed: 03/06/18 - 03/08/18

Duplicate Matrix Spike Summary

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Sample Name: BAT-87-17 (1) 180228
Lab Code: R1801690-018
Analysis Method: Organic Acids

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike RQ1801992-04			Duplicate Matrix Spike RQ1801992-05			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Pyruvic Acid	0.50 U	2.11	2.00	105	2.10	2.00	105	45-144	<1	30
Acetic Acid	1.0 U	19.4	20.1	97	19.3	20.1	96	30-147	<1	30
Butanoic Acid (Butyric Acid)	2.0 U	21.3	20.0	106	20.2	20.0	101	55-146	5	30
Lactic Acid	1.0 U	20.4	20.9	98	20.4	20.9	97	40-158	<1	30
Propionic Acid	1.0 U	20.9	20.5	102	20.5	20.5	100	57-135	2	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.

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1801992-01

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	03/05/18 15:13	
Acetic Acid	1.0 U	1.0	1	03/05/18 15:13	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	03/05/18 15:13	
Lactic Acid	1.0 U	1.0	1	03/05/18 15:13	
Propionic Acid	1.0 U	1.0	1	03/05/18 15:13	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1802142-01

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	03/08/18 12:33	
Acetic Acid	1.0 U	1.0	1	03/08/18 12:33	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	03/08/18 12:33	
Lactic Acid	1.0 U	1.0	1	03/08/18 12:33	
Propionic Acid	1.0 U	1.0	1	03/08/18 12:33	

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QA/QC Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Analyzed: 03/05/18

Duplicate Lab Control Sample Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Units:mg/L
Basis:NA

Analyte Name	Analytical Method	Lab Control Sample RQ1801992-02			Duplicate Lab Control Sample RQ1801992-03			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Pyruvic Acid	Organic Acids	2.22	2.00	111	2.23	2.00	111	70-130	<1	30
Acetic Acid	Organic Acids	19.8	20.1	99	19.8	20.1	99	70-130	<1	30
Butanoic Acid (Butyric Acid)	Organic Acids	20.6	20.0	103	21.4	20.0	107	70-130	4	30
Lactic Acid	Organic Acids	20.8	20.9	99	20.7	20.9	99	70-130	<1	30
Propionic Acid	Organic Acids	30.6	20.5	149 *	30.6	20.5	149 *	70-130	<1	30

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QA/QC Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Analyzed: 03/08/18

Duplicate Lab Control Sample Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Units:mg/L
Basis:NA

Analyte Name	Analytical Method	Lab Control Sample			Duplicate Lab Control Sample			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Acetic Acid	Organic Acids	1.0 U	20.0	0 *	1.0 U	20.0	0 *	70-130	NC	30
Butanoic Acid (Butyric Acid)	Organic Acids	2.0 U	20.1	0 *	2.0 U	20.1	0 *	70-130	NC	30
Lactic Acid	Organic Acids	1.0 U	20.0	0 *	1.0 U	20.0	0 *	70-130	NC	30
Propionic Acid	Organic Acids	20.8	20.0	104	19.7	20.0	98	70-130	6	30



General Chemistry

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R1801690-MB1

Service Request: R1801690
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	03/08/18 10:24	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	03/08/18 10:24	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0 U	mg/L	1.0	1	03/08/18 02:32	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	03/08/18 10:24	
Chloride	9056A	0.20 U	mg/L	0.20	1	02/28/18 19:02	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.10 U	mg/L	0.10	1	02/27/18 18:35	
Nitrate as Nitrogen	9056A	0.10 U	mg/L	0.10	1	02/28/18 14:24	
Sulfate	9056A	0.20 U	mg/L	0.20	1	02/28/18 14:24	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R1801690-MB2

Service Request: R1801690
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0 U	mg/L	1.0	1	03/08/18 16:41	
Chloride	9056A	0.20 U	mg/L	0.20	1	03/01/18 04:18	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.10 U	mg/L	0.10	1	02/28/18 15:40	
Nitrate as Nitrogen	9056A	0.10 U	mg/L	0.10	1	02/28/18 19:02	
Sulfate	9056A	0.20 U	mg/L	0.20	1	02/28/18 19:02	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R1801690-MB3

Service Request: R1801690
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0 U	mg/L	1.0	1	03/09/18 01:06	
Chloride	9056A	0.20 U	mg/L	0.20	1	03/01/18 08:58	
Sulfate	9056A	0.20 U	mg/L	0.20	1	03/01/18 08:58	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R1801690-MB4

Service Request: R1801690
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Chloride	9056A	0.20 U	mg/L	0.20	1	03/01/18 13:36	
Sulfate	9056A	0.20 U	mg/L	0.20	1	03/01/18 13:36	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R1801690-MB5

Service Request: R1801690
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Chloride	9056A	0.20 U	mg/L	0.20	1	03/06/18 14:31	
Sulfate	9056A	0.20 U	mg/L	0.20	1	03/06/18 14:31	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R1801690-MB6

Service Request: R1801690
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Chloride	9056A	0.20 U	mg/L	0.20	1	03/06/18 23:47	
Sulfate	9056A	0.20 U	mg/L	0.20	1	03/07/18 07:42	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R1801690-MB7

Service Request: R1801690
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Chloride	9056A	0.20 U	mg/L	0.20	1	03/07/18 07:42	

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dba ALS Environmental

Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R1801690-MB8

Service Request: R1801690
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Chloride	9056A	0.20 U	mg/L	0.20	1	03/07/18 23:08	

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/27/18
Date Received: 02/27/18
Date Analyzed: 03/8/18

Duplicate Matrix Spike Summary
Carbon, Total Organic (TOC)

Sample Name: BAT-87-02 (1) 180227
Lab Code: R1801690-001
Analysis Method: SM 5310 C-2000(2011)

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike R1801690-001MS		Duplicate Matrix Spike R1801690-001DMS		% Rec Limits	RPD	RPD Limit		
		Result	Spike Amount	% Rec	Result				Spike Amount	% Rec
Carbon, Total Organic (TOC)	143	351	200	104	336	200	97	48-135	4	20

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.

ALS Group USA, Corp.
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QA/QC Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/27/18
Date Received: 02/27/18
Date Analyzed: 03/1/18

**Duplicate Matrix Spike Summary
Chloride**

Sample Name: BAT-87-01 (1) 180227
Lab Code: R1801690-002
Analysis Method: 9056A

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Result	Matrix Spike R1801690-002MS		Duplicate Matrix Spike R1801690-002DMS		% Rec Limits	RPD	RPD Limit	
			Spike Amount	% Rec	Result	Spike Amount				% Rec
Chloride	780	1470	600	114	1470	600	115	80-120	<1	15

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

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dba ALS Environmental

QA/QC Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/27/18
Date Received: 02/27/18
Date Analyzed: 02/27/18

Duplicate Matrix Spike Summary
Iron, Divalent (Ferrous Iron)

Sample Name: BAT-DW-12-180227
Lab Code: R1801690-007
Analysis Method: SM 3500-Fe B.4.c

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike R1801690-007MS			Duplicate Matrix Spike R1801690-007DMS			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Iron, Divalent (Ferrous Iron)	0.11	0.61	0.40	125	0.63	0.40	130	26-169	3	20

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.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/28/18
Date Received: 02/28/18
Date Analyzed: 03/9/18

Duplicate Matrix Spike Summary
Carbon, Total Organic (TOC)

Sample Name: BAT-87-08 (1) 180228
Lab Code: R1801690-014
Analysis Method: SM 5310 C-2000(2011)

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike R1801690-014MS			Duplicate Matrix Spike R1801690-014DMS			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Carbon, Total Organic (TOC)	45.8	84.6	40.0	97	84.8	40.0	98	48-135	<1	20

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.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/28/18
Date Received: 02/28/18
Date Analyzed: 02/28/18

Duplicate Matrix Spike Summary
Iron, Divalent (Ferrous Iron)

Sample Name: BAT-B-10A (1) 180228
Lab Code: R1801690-016
Analysis Method: SM 3500-Fe B.4.c

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike R1801690-016MS			Duplicate Matrix Spike R1801690-016DMS			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Iron, Divalent (Ferrous Iron)	0.10 U	0.37	0.40	92	0.38	0.40	95	26-169	3	20

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.

ALS Group USA, Corp.
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QA/QC Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/28/18
Date Received: 02/28/18
Date Analyzed: 03/9/18

Duplicate Matrix Spike Summary
Carbon, Total Organic (TOC)

Sample Name: BAT-87-13 (1) 180228
Lab Code: R1801690-017
Analysis Method: SM 5310 C-2000(2011)

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike R1801690-017MS		Duplicate Matrix Spike R1801690-017DMS		% Rec Limits	RPD	RPD Limit		
		Result	Spike Amount	% Rec	Result				Spike Amount	% Rec
Carbon, Total Organic (TOC)	320	1390	1000	107	1380	1000	106	48-135	<1	20

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.

ALS Group USA, Corp.

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QA/QC Report

Client: APTIM, Inc
Project Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Collected: 02/28/18
Date Received: 02/28/18
Date Analyzed: 03/08/18

Replicate Sample Summary
General Chemistry Parameters

Sample Name: BAT-87-17 (1) 180228
Lab Code: R1801690-018

Units: mg/L
Basis: NA

Analyte Name	Analysis Method	MRL	Sample Result	Duplicate Sample R1801690-018DUP Result	Average	RPD	RPD Limit
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	2.0	292	294	293	<1	20
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0	292	294	293	<1	20
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0	2.0 U	2.0 U	NC	NC	20

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.

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QA/QC Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Analyzed: 02/27/18 - 03/08/18

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1801690-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	18.8	20.0	94	81-112
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	10.9	10.0	109	81-118
Chloride	9056A	1.97	2.00	99	80-120
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.45	0.40	112	67-129
Nitrate as Nitrogen	9056A	0.969	1.00	97	80-120
Sulfate	9056A	1.90	2.00	95	80-120

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QA/QC Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Analyzed: 02/28/18 - 03/08/18

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1801690-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	10.6	10.0	106	81-118
Chloride	9056A	2.03	2.00	101	80-120
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.43	0.40	107	67-129
Nitrate as Nitrogen	9056A	0.956	1.00	96	80-120
Sulfate	9056A	1.88	2.00	94	80-120

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QA/QC Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Analyzed: 03/01/18 - 03/09/18

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1801690-LCS3

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	10.2	10.0	102	81-118
Chloride	9056A	2.02	2.00	101	80-120
Sulfate	9056A	1.95	2.00	98	80-120

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QA/QC Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Analyzed: 03/01/18

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1801690-LCS4

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chloride	9056A	2.02	2.00	101	80-120
Sulfate	9056A	1.93	2.00	97	80-120

ALS Group USA, Corp.

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QA/QC Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Analyzed: 03/06/18

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L

Basis:NA

Lab Control Sample

R1801690-LCS5

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chloride	9056A	1.92	2.00	96	80-120
Sulfate	9056A	1.86	2.00	93	80-120

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QA/QC Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690
Date Analyzed: 03/06/18 - 03/07/18

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1801690-LCS6

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chloride	9056A	1.98	2.00	99	80-120
Sulfate	9056A	1.95	2.00	98	80-120

ALS Group USA, Corp.

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QA/QC Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690

Date Analyzed: 03/07/18

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L

Basis:NA

Lab Control Sample

R1801690-LCS7

<u>Analyte Name</u>	<u>Analytical Method</u>	<u>Result</u>	<u>Spike Amount</u>	<u>% Rec</u>	<u>% Rec Limits</u>
Chloride	9056A	2.02	2.00	101	80-120

ALS Group USA, Corp.

dba ALS Environmental

QA/QC Report

Client: APTIM, Inc
Project: Textron Injection/631232612
Sample Matrix: Water

Service Request: R1801690

Date Analyzed: 03/07/18

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L

Basis:NA

Lab Control Sample

R1801690-LCS8

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chloride	9056A	1.95	2.00	97	80-120



March 30, 2018

Service Request No:R1802398

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

Laboratory Results for: Textron Injection

Dear Ms.Byers,

Enclosed are the results of the sample(s) submitted to our laboratory March 21, 2018
For your reference, these analyses have been assigned our service request number **R1802398**.

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



Client: APTIM, Inc
Project: Textron Injection
Sample Matrix: Water

Service Request: R1802398
Date Received: 03/20/2018 - 03/21/2018

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:

Twenty water samples were received for analysis at ALS Environmental on 03/20/2018 - 03/21/2018. 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.

Semivolatile GC:

The 3/22/18 LCS had one or more analytes outside limits high. No data was affected.

General Chemistry:

Method SM 3500-Fe B.4.c, 584944: The Method Reporting Limit (MRL) was elevated due to reactivity of sample in the cuvette. Ferrous Iron was analyzed as soon as possible upon receipt in the laboratory.

Volatiles by GC:

R1802398-002: Diluted (DL) analysis had a slight retention time shift, but matches the straight run.

Volatiles by GC/MS:

Method 8260C, 03/27/2018: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8260C, 03/27/2018: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8260C, 03/26/2018: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8260C, 03/22/2018: The upper control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). The field samples analyzed in this sequence did not contain the analyte(s) in question above the Method Reporting Limit (MRL). Since the exceedance equates to a potential high bias, the data quality was not significantly affected and no further corrective action was taken.

Method 8260C, 03/22/2018: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

Method 8260C, 03/22/2018: The upper control criterion was exceeded for one or more analytes in the Laboratory Control Sample

A handwritten signature in black ink, appearing to read "Samantha".

Approved by _____

Date 03/30/2018



(LCS). There were no detections of the analyte(s) in the associated field samples. The error associated with elevated recovery equates to a high bias. The sample data is not significantly affected. No further corrective action was appropriate.

A handwritten signature in black ink, appearing to read 'Samantha', is written over a horizontal line.

Approved by _____

Date 03/30/2018



SAMPLE DETECTION SUMMARY

CLIENT ID: BAT-87-02 (1) 180320 **Lab ID: R1802398-001**

Analyte	Results	Flag	MDL	PQL	Units	Method
Alkalinity, Total as CaCO3	621		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Bicarbonate Alkalinity as CaCO3	621		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Carbon Dioxide	703			2.0	mg/L	SM 4500-CO2 D
Carbon, Total Organic (TOC)	69		0.5	10	mg/L	SM 5310 C-2000 (2011)
Chloride	504		2	20	mg/L	9056A
Iron, Divalent (Ferrous Iron)	3.3		0.3	1.0	mg/L	SM 3500-Fe B.4.c
pH, Field	6.90				pH Units	SM 4500-H+ B
Sulfate	234		2	20	mg/L	9056A
Vinyl Chloride	1100		6.4	20	ug/L	8260C
Carbon Disulfide	28		4.4	20	ug/L	8260C
Methylene Chloride	34		12	20	ug/L	8260C
trans-1,2-Dichloroethene	8.6	J	6.6	20	ug/L	8260C
1,1-Dichloroethane	29		4.0	20	ug/L	8260C
cis-1,2-Dichloroethene	2100		6.0	20	ug/L	8260C
1,1,1-Trichloroethane	27		7.2	20	ug/L	8260C
Trichloroethene	88		4.4	20	ug/L	8260C
Ethene	330		0.69	5.0	ug/L	RSK 175
Methane	120		2.5	5.3	ug/L	RSK 175
Acetic Acid	140		1.0	1.0	mg/L	Organic Acids
Butanoic Acid (Butyric Acid)	4.0		0.32	2.0	mg/L	Organic Acids

CLIENT ID: BAT-87-01 (1) 180320 **Lab ID: R1802398-002**

Analyte	Results	Flag	MDL	PQL	Units	Method
Alkalinity, Total as CaCO3	595		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Bicarbonate Alkalinity as CaCO3	595		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Carbon Dioxide	606			2.0	mg/L	SM 4500-CO2 D
Carbon, Total Organic (TOC)	32.4		0.2	4.0	mg/L	SM 5310 C-2000 (2011)
Chloride	584		2	20	mg/L	9056A
pH, Field	7.16				pH Units	SM 4500-H+ B
Sulfate	176		2	20	mg/L	9056A
Vinyl Chloride	150		0.32	1.0	ug/L	8260C
Acetone	7.1		1.3	5.0	ug/L	8260C
Carbon Disulfide	32		0.22	1.0	ug/L	8260C
Methylene Chloride	29		0.60	1.0	ug/L	8260C
trans-1,2-Dichloroethene	6.4		0.33	1.0	ug/L	8260C
1,1-Dichloroethane	15		0.20	1.0	ug/L	8260C
cis-1,2-Dichloroethene	58		0.30	1.0	ug/L	8260C
2-Butanone (MEK)	3.8	J	0.81	5.0	ug/L	8260C



SAMPLE DETECTION SUMMARY

CLIENT ID: BAT-87-01 (1) 180320 **Lab ID: R1802398-002**

Analyte	Results	Flag	MDL	PQL	Units	Method
1,1,1-Trichloroethane	18		0.36	1.0	ug/L	8260C
Trichloroethene	3.7		0.22	1.0	ug/L	8260C
Toluene	0.22	J	0.20	1.0	ug/L	8260C
Ethene	470	D	1.4	10	ug/L	RSK 175
Methane	76		0.50	1.1	ug/L	RSK 175
Acetic Acid	59		1.0	1.0	mg/L	Organic Acids

CLIENT ID: BAT-87-12 (1) 180320 **Lab ID: R1802398-003**

Analyte	Results	Flag	MDL	PQL	Units	Method
Alkalinity, Total as CaCO3	380		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Bicarbonate Alkalinity as CaCO3	380		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Carbon Dioxide	349			2.0	mg/L	SM 4500-CO2 D
Carbon, Total Organic (TOC)	5.1		0.05	1.0	mg/L	SM 5310 C-2000 (2011)
Chloride	302		0.6	10	mg/L	9056A
pH, Field	7.72				pH Units	SM 4500-H+ B
Sulfate	800		10	100	mg/L	9056A
Vinyl Chloride	2200		6.4	20	ug/L	8260C
Carbon Disulfide	23		4.4	20	ug/L	8260C
trans-1,2-Dichloroethene	7.2	J	6.6	20	ug/L	8260C
1,1-Dichloroethane	25		4.0	20	ug/L	8260C
cis-1,2-Dichloroethene	1300		6.0	20	ug/L	8260C
1,1,1-Trichloroethane	28		7.2	20	ug/L	8260C
Trichloroethene	33		4.4	20	ug/L	8260C
Ethene	270		0.69	5.0	ug/L	RSK 175
Methane	46		2.5	5.3	ug/L	RSK 175

CLIENT ID: BAT-89-12 (1) 180320 **Lab ID: R1802398-004**

Analyte	Results	Flag	MDL	PQL	Units	Method
Alkalinity, Total as CaCO3	298		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Bicarbonate Alkalinity as CaCO3	298		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Carbon Dioxide	274			2.0	mg/L	SM 4500-CO2 D
Carbon, Total Organic (TOC)	6.8		0.05	1.0	mg/L	SM 5310 C-2000 (2011)
Chloride	504		2	20	mg/L	9056A
Iron, Divalent (Ferrous Iron)	0.14		0.03	0.10	mg/L	SM 3500-Fe B.4.c
pH, Field	7.70				pH Units	SM 4500-H+ B
Sulfate	972		2	20	mg/L	9056A
Vinyl Chloride	580		1.6	5.0	ug/L	8260C
Carbon Disulfide	8.5		1.1	5.0	ug/L	8260C
trans-1,2-Dichloroethene	3.2	J	1.7	5.0	ug/L	8260C



SAMPLE DETECTION SUMMARY

CLIENT ID: BAT-89-12 (1) 180320 **Lab ID: R1802398-004**

Analyte	Results	Flag	MDL	PQL	Units	Method
1,1-Dichloroethane	14		1.0	5.0	ug/L	8260C
cis-1,2-Dichloroethene	420		1.5	5.0	ug/L	8260C
1,1,1-Trichloroethane	21		1.8	5.0	ug/L	8260C
Trichloroethene	20		1.1	5.0	ug/L	8260C
Ethene	370		1.4	10	ug/L	RSK 175
Methane	30		5.0	11	ug/L	RSK 175

CLIENT ID: BAT-DW-12 180320 **Lab ID: R1802398-005**

Analyte	Results	Flag	MDL	PQL	Units	Method
Alkalinity, Total as CaCO3	122		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Bicarbonate Alkalinity as CaCO3	122		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Carbon Dioxide	111			2.0	mg/L	SM 4500-CO2 D
Carbon, Total Organic (TOC)	2.8		0.05	1.0	mg/L	SM 5310 C-2000 (2011)
Chloride	1100		5	80	mg/L	9056A
Nitrate as Nitrogen	1.1		0.04	1.0	mg/L	9056A
pH, Field	7.83				pH Units	SM 4500-H+ B
Sulfate	113		0.8	8.0	mg/L	9056A
Vinyl Chloride	0.45	J	0.32	1.0	ug/L	8260C
1,1-Dichloroethane	0.76	J	0.20	1.0	ug/L	8260C
cis-1,2-Dichloroethene	4.2		0.30	1.0	ug/L	8260C
Trichloroethene	1.3		0.22	1.0	ug/L	8260C

CLIENT ID: BAT-89-10 (1) 180320 **Lab ID: R1802398-006**

Analyte	Results	Flag	MDL	PQL	Units	Method
Alkalinity, Total as CaCO3	426		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Bicarbonate Alkalinity as CaCO3	426		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Carbon Dioxide	421			2.0	mg/L	SM 4500-CO2 D
Carbon, Total Organic (TOC)	36.2		0.2	4.0	mg/L	SM 5310 C-2000 (2011)
Chloride	735		3	40	mg/L	9056A
pH, Field	7.27				pH Units	SM 4500-H+ B
Sulfate	737		4	40	mg/L	9056A
Vinyl Chloride	400		16	50	ug/L	8260C
Carbon Disulfide	210		11	50	ug/L	8260C
Methylene Chloride	4400		30	50	ug/L	8260C
1,1-Dichloroethane	18	J	10	50	ug/L	8260C
cis-1,2-Dichloroethene	1900		15	50	ug/L	8260C
1,1,1-Trichloroethane	31	J	18	50	ug/L	8260C
Trichloroethene	6400		11	50	ug/L	8260C
Ethane	5.4		0.17	1.0	ug/L	RSK 175



SAMPLE DETECTION SUMMARY

CLIENT ID: BAT-89-10 (1) 180320 **Lab ID: R1802398-006**

Analyte	Results	Flag	MDL	PQL	Units	Method
Ethene	130	D	0.28	2.0	ug/L	RSK 175
Methane	15		0.50	1.1	ug/L	RSK 175
Acetic Acid	67		1.0	1.0	mg/L	Organic Acids

CLIENT ID: BAT-87-20 (1) 180320 **Lab ID: R1802398-007**

Analyte	Results	Flag	MDL	PQL	Units	Method
Alkalinity, Total as CaCO3	354		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Bicarbonate Alkalinity as CaCO3	354		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Carbon Dioxide	320			2.0	mg/L	SM 4500-CO2 D
Carbon, Total Organic (TOC)	6.1		0.05	1.0	mg/L	SM 5310 C-2000 (2011)
Chloride	408		3	40	mg/L	9056A
Iron, Divalent (Ferrous Iron)	0.15		0.03	0.10	mg/L	SM 3500-Fe B.4.c
pH, Field	7.92				pH Units	SM 4500-H+ B
Sulfate	562		4	40	mg/L	9056A
Vinyl Chloride	1200		8.0	25	ug/L	8260C
Carbon Disulfide	24	J	5.5	25	ug/L	8260C
Methylene Chloride	20	J	15	25	ug/L	8260C
1,1-Dichloroethane	12	J	5.0	25	ug/L	8260C
cis-1,2-Dichloroethene	2800		7.5	25	ug/L	8260C
1,1,1-Trichloroethane	14	J	9.0	25	ug/L	8260C
Trichloroethene	47		5.5	25	ug/L	8260C
Ethane	1.7		0.17	1.0	ug/L	RSK 175
Ethene	110	D	0.28	2.0	ug/L	RSK 175
Methane	47		0.50	1.1	ug/L	RSK 175
Acetic Acid	3.1		1.0	1.0	mg/L	Organic Acids

CLIENT ID: BAT-87-22 (1) 180320 **Lab ID: R1802398-008**

Analyte	Results	Flag	MDL	PQL	Units	Method
Alkalinity, Total as CaCO3	392		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Bicarbonate Alkalinity as CaCO3	392		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Carbon Dioxide	354			2.0	mg/L	SM 4500-CO2 D
Carbon, Total Organic (TOC)	6.0		0.05	1.0	mg/L	SM 5310 C-2000 (2011)
Chloride	145		0.5	8.0	mg/L	9056A
pH, Field	7.92				pH Units	SM 4500-H+ B
Sulfate	981		8	80	mg/L	9056A
Vinyl Chloride	1100		6.4	20	ug/L	8260C
trans-1,2-Dichloroethene	17	J	6.6	20	ug/L	8260C
1,1-Dichloroethane	9.9	J	4.0	20	ug/L	8260C
cis-1,2-Dichloroethene	2500		6.0	20	ug/L	8260C



SAMPLE DETECTION SUMMARY

CLIENT ID: BAT-87-22 (1) 180320 **Lab ID: R1802398-008**

Analyte	Results	Flag	MDL	PQL	Units	Method
Trichloroethene	11	J	4.4	20	ug/L	8260C
Ethane	4.3		0.33	2.1	ug/L	RSK 175
Ethene	51		0.28	2.0	ug/L	RSK 175
Methane	170		1.0	2.1	ug/L	RSK 175
Acetic Acid	4.0		1.0	1.0	mg/L	Organic Acids

CLIENT ID: BAT-DW-11 180320 **Lab ID: R1802398-009**

Analyte	Results	Flag	MDL	PQL	Units	Method
Alkalinity, Total as CaCO3	310		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Bicarbonate Alkalinity as CaCO3	310		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Carbon Dioxide	292			2.0	mg/L	SM 4500-CO2 D
Carbon, Total Organic (TOC)	16.8		0.05	1.0	mg/L	SM 5310 C-2000 (2011)
Chloride	580		4	60	mg/L	9056A
pH, Field	7.50				pH Units	SM 4500-H+ B
Sulfate	731		6	60	mg/L	9056A
Vinyl Chloride	190	D	3.2	10	ug/L	8260C
1,1-Dichloroethene	2.2		0.57	1.0	ug/L	8260C
Acetone	2.6	J	1.3	5.0	ug/L	8260C
Carbon Disulfide	8.8		0.22	1.0	ug/L	8260C
Methylene Chloride	72		0.60	1.0	ug/L	8260C
trans-1,2-Dichloroethene	1.5		0.33	1.0	ug/L	8260C
1,1-Dichloroethane	17		0.20	1.0	ug/L	8260C
cis-1,2-Dichloroethene	190		0.30	1.0	ug/L	8260C
1,1,1-Trichloroethane	58		0.36	1.0	ug/L	8260C
Trichloroethene	1300	D	2.2	10	ug/L	8260C
Toluene	1.2		0.20	1.0	ug/L	8260C
Tetrachloroethene	0.55	J	0.30	1.0	ug/L	8260C
Ethylbenzene	0.22	J	0.20	1.0	ug/L	8260C
m,p-Xylenes	0.78	J	0.33	2.0	ug/L	8260C
o-Xylene	0.31	J	0.20	1.0	ug/L	8260C
Ethane	3.4		0.33	2.1	ug/L	RSK 175
Ethene	28		0.28	2.0	ug/L	RSK 175
Methane	54		1.0	2.1	ug/L	RSK 175
Acetic Acid	19		1.0	1.0	mg/L	Organic Acids

CLIENT ID: BAT-87-09 (1) 180320 **Lab ID: R1802398-010**

Analyte	Results	Flag	MDL	PQL	Units	Method
Alkalinity, Total as CaCO3	296		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Bicarbonate Alkalinity as CaCO3	296		1.0	2.0	mg/L	SM 2320 B-1997 (2011)



SAMPLE DETECTION SUMMARY

CLIENT ID: BAT-87-09 (1) 180320 **Lab ID: R1802398-010**

Analyte	Results	Flag	MDL	PQL	Units	Method
Carbon Dioxide	275			2.0	mg/L	SM 4500-CO2 D
Carbon, Total Organic (TOC)	4.7		0.05	1.0	mg/L	SM 5310 C-2000 (2011)
Chloride	159		0.5	8.0	mg/L	9056A
pH, Field	7.60				pH Units	SM 4500-H+ B
Sulfate	879		8	80	mg/L	9056A
Vinyl Chloride	170		0.64	2.0	ug/L	8260C
1,1-Dichloroethene	1.2	J	1.2	2.0	ug/L	8260C
trans-1,2-Dichloroethene	1.3	J	0.66	2.0	ug/L	8260C
1,1-Dichloroethane	16		0.40	2.0	ug/L	8260C
cis-1,2-Dichloroethene	130		0.60	2.0	ug/L	8260C
1,1,1-Trichloroethane	83		0.72	2.0	ug/L	8260C
Trichloroethene	2.1		0.44	2.0	ug/L	8260C
Ethene	8.0		0.14	1.0	ug/L	RSK 175
Methane	47		0.50	1.1	ug/L	RSK 175

CLIENT ID: BAT-B-14 (1) 180320 **Lab ID: R1802398-011**

Analyte	Results	Flag	MDL	PQL	Units	Method
Alkalinity, Total as CaCO3	302		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Bicarbonate Alkalinity as CaCO3	302		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Carbon Dioxide	282			2.0	mg/L	SM 4500-CO2 D
Carbon, Total Organic (TOC)	4.4		0.05	1.0	mg/L	SM 5310 C-2000 (2011)
Chloride	165		0.5	8.0	mg/L	9056A
pH, Field	7.57				pH Units	SM 4500-H+ B
Sulfate	857		8	80	mg/L	9056A
Vinyl Chloride	180		0.64	2.0	ug/L	8260C
Acetone	4.6	J	2.5	10	ug/L	8260C
trans-1,2-Dichloroethene	1.5	J	0.66	2.0	ug/L	8260C
1,1-Dichloroethane	16		0.40	2.0	ug/L	8260C
cis-1,2-Dichloroethene	120		0.60	2.0	ug/L	8260C
1,1,1-Trichloroethane	58		0.72	2.0	ug/L	8260C
Trichloroethene	1.7	J	0.44	2.0	ug/L	8260C
Ethane	1.3		0.17	1.0	ug/L	RSK 175
Ethene	14		0.14	1.0	ug/L	RSK 175
Methane	61		0.50	1.1	ug/L	RSK 175

CLIENT ID: BAT-87-17 (1) 180321 **Lab ID: R1802398-012**

Analyte	Results	Flag	MDL	PQL	Units	Method
Alkalinity, Total as CaCO3	298		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Bicarbonate Alkalinity as CaCO3	298		1.0	2.0	mg/L	SM 2320 B-1997 (2011)



SAMPLE DETECTION SUMMARY

CLIENT ID: BAT-87-17 (1) 180321 **Lab ID: R1802398-012**

Analyte	Results	Flag	MDL	PQL	Units	Method
Carbon Dioxide	268			2.0	mg/L	SM 4500-CO2 D
Carbon, Total Organic (TOC)	3.9		0.05	1.0	mg/L	SM 5310 C-2000 (2011)
Chloride	160		0.5	8.0	mg/L	9056A
Iron, Divalent (Ferrous Iron)	0.15		0.03	0.10	mg/L	SM 3500-Fe B.4.c
pH, Field	7.98				pH Units	SM 4500-H+ B
Sulfate	938		8	80	mg/L	9056A
Vinyl Chloride	290		0.80	2.5	ug/L	8260C
trans-1,2-Dichloroethene	1.8	J	0.83	2.5	ug/L	8260C
1,1-Dichloroethane	22		0.50	2.5	ug/L	8260C
cis-1,2-Dichloroethene	97		0.75	2.5	ug/L	8260C
1,1,1-Trichloroethane	100		0.90	2.5	ug/L	8260C
Trichloroethene	2.3	J	0.55	2.5	ug/L	8260C
Ethane	1.2		0.17	1.0	ug/L	RSK 175
Ethene	12		0.14	1.0	ug/L	RSK 175
Methane	68		0.50	1.1	ug/L	RSK 175

CLIENT ID: BAT-89-15 (1) 180321 **Lab ID: R1802398-013**

Analyte	Results	Flag	MDL	PQL	Units	Method
Alkalinity, Total as CaCO3	644		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Bicarbonate Alkalinity as CaCO3	644		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Carbon Dioxide	648			2.0	mg/L	SM 4500-CO2 D
Carbon, Total Organic (TOC)	59.3		0.2	4.0	mg/L	SM 5310 C-2000 (2011)
Chloride	106		0.5	8.0	mg/L	9056A
Iron, Divalent (Ferrous Iron)	0.13		0.03	0.10	mg/L	SM 3500-Fe B.4.c
pH, Field	7.20				pH Units	SM 4500-H+ B
Sulfate	33.5		0.8	8.0	mg/L	9056A
Vinyl Chloride	840		16	50	ug/L	8260C
Carbon Disulfide	310		11	50	ug/L	8260C
Methylene Chloride	15000	D	60	100	ug/L	8260C
cis-1,2-Dichloroethene	790		15	50	ug/L	8260C
Trichloroethene	510		11	50	ug/L	8260C
Ethane	3.0		0.41	2.6	ug/L	RSK 175
Ethene	220	D	0.69	5.0	ug/L	RSK 175
Methane	110		1.3	2.6	ug/L	RSK 175
Acetic Acid	95		1.0	1.0	mg/L	Organic Acids
Butanoic Acid (Butyric Acid)	14		0.32	2.0	mg/L	Organic Acids
Propionic Acid	6.3		0.19	1.0	mg/L	Organic Acids



SAMPLE DETECTION SUMMARY

CLIENT ID: BAT-DW-10 180321 **Lab ID: R1802398-014**

Analyte	Results	Flag	MDL	PQL	Units	Method
Alkalinity, Total as CaCO3	168		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Bicarbonate Alkalinity as CaCO3	168		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Carbon Dioxide	166			2.0	mg/L	SM 4500-CO2 D
Carbon, Total Organic (TOC)	141		0.9	20	mg/L	SM 5310 C-2000 (2011)
Chloride	41.3		0.2	2.0	mg/L	9056A
pH, Field	7.26				pH Units	SM 4500-H+ B
Sulfate	73.8		0.8	8.0	mg/L	9056A
Vinyl Chloride	160		32	100	ug/L	8260C
Carbon Disulfide	28	J	22	100	ug/L	8260C
Methylene Chloride	14000		60	100	ug/L	8260C
cis-1,2-Dichloroethene	640		30	100	ug/L	8260C
Chloroform	93	J	25	100	ug/L	8260C
Trichloroethene	13000		22	100	ug/L	8260C
Ethane	2.8		0.17	1.0	ug/L	RSK 175
Ethene	20		0.14	1.0	ug/L	RSK 175
Methane	56		0.50	1.1	ug/L	RSK 175
Acetic Acid	44		1.0	1.0	mg/L	Organic Acids
Butanoic Acid (Butyric Acid)	2.5		0.32	2.0	mg/L	Organic Acids
Propionic Acid	14		0.19	1.0	mg/L	Organic Acids

CLIENT ID: BAT-87-08 (1) 180321 **Lab ID: R1802398-015**

Analyte	Results	Flag	MDL	PQL	Units	Method
Alkalinity, Total as CaCO3	545		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Bicarbonate Alkalinity as CaCO3	545		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Carbon Dioxide	511			2.0	mg/L	SM 4500-CO2 D
Carbon, Total Organic (TOC)	47.1		0.2	4.0	mg/L	SM 5310 C-2000 (2011)
Chloride	21.4		0.2	2.0	mg/L	9056A
pH, Field	7.55				pH Units	SM 4500-H+ B
Sulfate	75.3		0.8	8.0	mg/L	9056A
Vinyl Chloride	1300		3.2	10	ug/L	8260C
1,1-Dichloroethene	9.0	J	5.7	10	ug/L	8260C
Carbon Disulfide	17		2.2	10	ug/L	8260C
Methylene Chloride	110		6.0	10	ug/L	8260C
trans-1,2-Dichloroethene	9.7	J	3.3	10	ug/L	8260C
1,1-Dichloroethane	20		2.0	10	ug/L	8260C
cis-1,2-Dichloroethene	1800		3.0	10	ug/L	8260C
1,1,1-Trichloroethane	8.0	J	3.6	10	ug/L	8260C
Trichloroethene	32		2.2	10	ug/L	8260C



SAMPLE DETECTION SUMMARY

CLIENT ID: BAT-87-08 (1) 180321 **Lab ID: R1802398-015**

Analyte	Results	Flag	MDL	PQL	Units	Method
Ethene	170		0.69	5.0	ug/L	RSK 175
Methane	36		2.5	5.3	ug/L	RSK 175
Acetic Acid	98		1.0	1.0	mg/L	Organic Acids

CLIENT ID: BAT-B-10A (1) 180321 **Lab ID: R1802398-016**

Analyte	Results	Flag	MDL	PQL	Units	Method
Alkalinity, Total as CaCO3	467		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Bicarbonate Alkalinity as CaCO3	467		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Carbon Dioxide	424			2.0	mg/L	SM 4500-CO2 D
Carbon, Total Organic (TOC)	32.6		0.2	4.0	mg/L	SM 5310 C-2000 (2011)
Chloride	95.8		0.5	8.0	mg/L	9056A
pH, Field	7.85				pH Units	SM 4500-H+ B
Sulfate	102		0.8	8.0	mg/L	9056A
Vinyl Chloride	370	J	160	500	ug/L	8260C
1,1-Dichloroethene	410	J	290	500	ug/L	8260C
Methylene Chloride	3000		300	500	ug/L	8260C
trans-1,2-Dichloroethene	200	J	170	500	ug/L	8260C
1,1-Dichloroethane	380	J	100	500	ug/L	8260C
cis-1,2-Dichloroethene	52000		150	500	ug/L	8260C
1,1,1-Trichloroethane	1300		180	500	ug/L	8260C
Trichloroethene	33000		110	500	ug/L	8260C
Ethane	2.6		0.17	1.0	ug/L	RSK 175
Ethene	27		0.14	1.0	ug/L	RSK 175
Methane	73		0.50	1.1	ug/L	RSK 175
Acetic Acid	51		1.0	1.0	mg/L	Organic Acids

CLIENT ID: BAT-DW-9 180321 **Lab ID: R1802398-017**

Analyte	Results	Flag	MDL	PQL	Units	Method
Alkalinity, Total as CaCO3	162		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Bicarbonate Alkalinity as CaCO3	162		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Carbon Dioxide	144			2.0	mg/L	SM 4500-CO2 D
Carbon, Total Organic (TOC)	4.8		0.05	1.0	mg/L	SM 5310 C-2000 (2011)
Chloride	7.5		0.2	2.0	mg/L	9056A
Nitrate as Nitrogen	6.4		0.04	1.0	mg/L	9056A
pH, Field	8.24				pH Units	SM 4500-H+ B
Sulfate	88.0		0.8	8.0	mg/L	9056A
Acetone	2.0	J	1.3	5.0	ug/L	8260C
cis-1,2-Dichloroethene	3.9		0.30	1.0	ug/L	8260C
Trichloroethene	18		0.22	1.0	ug/L	8260C



SAMPLE DETECTION SUMMARY

CLIENT ID: BAT-DW-9 180321 **Lab ID: R1802398-017**

CLIENT ID: BAT-87-13 (1) 180321 **Lab ID: R1802398-018**

Analyte	Results	Flag	MDL	PQL	Units	Method
Alkalinity, Total as CaCO3	935		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Bicarbonate Alkalinity as CaCO3	935		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Carbon Dioxide	1010			2.0	mg/L	SM 4500-CO2 D
Carbon, Total Organic (TOC)	247		0.5	10	mg/L	SM 5310 C-2000 (2011)
Chloride	350		3	40	mg/L	9056A
pH, Field	6.99				pH Units	SM 4500-H+ B
Sulfate	579		4	40	mg/L	9056A
Vinyl Chloride	2400		320	1000	ug/L	8260C
Methylene Chloride	120000		600	1000	ug/L	8260C
1,1-Dichloroethane	520	J	200	1000	ug/L	8260C
cis-1,2-Dichloroethene	42000		300	1000	ug/L	8260C
1,1,1-Trichloroethane	2000		360	1000	ug/L	8260C
Trichloroethene	84000		220	1000	ug/L	8260C
Ethane	7.4		0.41	2.6	ug/L	RSK 175
Ethene	210		0.35	2.5	ug/L	RSK 175
Methane	200		1.3	2.6	ug/L	RSK 175
Acetic Acid	450		5.0	5.0	mg/L	Organic Acids
Butanoic Acid (Butyric Acid)	30		1.6	10	mg/L	Organic Acids
Lactic Acid	7.9		0.67	5.0	mg/L	Organic Acids
Propionic Acid	45		0.94	5.0	mg/L	Organic Acids

CLIENT ID: Trip Blank 1 **Lab ID: R1802398-019**

Analyte	Results	Flag	MDL	PQL	Units	Method
Acetone	3.3	J	1.3	5.0	ug/L	8260C

CLIENT ID: Trip Blank 2 **Lab ID: R1802398-020**

Analyte	Results	Flag	MDL	PQL	Units	Method
Acetone	2.0	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
Project: Textron Injection/631236330

Service Request:R1802398

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R1802398-001	BAT-87-02 (1) 180320	3/20/2018	0940
R1802398-002	BAT-87-01 (1) 180320	3/20/2018	1010
R1802398-003	BAT-87-12 (1) 180320	3/20/2018	1040
R1802398-004	BAT-89-12 (1) 180320	3/20/2018	1110
R1802398-005	BAT-DW-12 180320	3/20/2018	1125
R1802398-006	BAT-89-10 (1) 180320	3/20/2018	1155
R1802398-007	BAT-87-20 (1) 180320	3/20/2018	1315
R1802398-008	BAT-87-22 (1) 180320	3/20/2018	1345
R1802398-009	BAT-DW-11 180320	3/20/2018	1405
R1802398-010	BAT-87-09 (1) 180320	3/20/2018	1435
R1802398-011	BAT-B-14 (1) 180320	3/20/2018	1505
R1802398-012	BAT-87-17 (1) 180321	3/21/2018	1005
R1802398-013	BAT-89-15 (1) 180321	3/21/2018	1035
R1802398-014	BAT-DW-10 180321	3/21/2018	1100
R1802398-015	BAT-87-08 (1) 180321	3/21/2018	1135
R1802398-016	BAT-B-10A (1) 180321	3/21/2018	1215
R1802398-017	BAT-DW-9 180321	3/21/2018	1230
R1802398-018	BAT-87-13 (1) 180321	3/21/2018	1300
R1802398-019	Trip Blank 1	3/20/2018	
R1802398-020	Trip Blank 2	3/21/2018	



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

49007

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 INJECTIONS		Project Number 631236330		ANALYSIS REQUESTED (Include Method Number and Container Preservative)											
Project Manager CECELIA BYERS		Report CC		PRESERVATIVE 1											
Company/Address APTIM				NUMBER OF CONTAINERS GC/MS VOAs GC/MS SVOAs GC VOAs PESTICIDES PCBs METALS, TOTAL METALS, DISSOLVED TOC 5310 C VOLATILE FATTY ACIDS COLIS ETHYLENE GLYCOL CO2 9056 A											
13 BRITISH AMERICAN BLVD.															
LATHAM, NY 12110															
Phone # 518-783-1996		Email CECELIA.BYERS@APTIM.COM													
Sampler's Signature Kevin Cronin		Sampler's Printed Name KEVIN CROININ		PRESERVATIVE KEY 0. NONE 1. HCL 2. HNO3 3. H2SO4 4. NaOH 5. Zn. Acetate 6. MeOH 7. NaHSO4 8. Other _____											
SPECIAL INSTRUCTIONS/COMMENTS Metals P.O. 1230175		TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) 1 day 2 day 3 day 4 day 5 day REQUESTED REPORT DATE STANDARD		REPORT REQUIREMENTS <input checked="" type="checkbox"/> I. Results Only <input type="checkbox"/> II. Results + QC Summaries (LCS, DUP, MS/MSD as required) <input type="checkbox"/> III. Results + QC and Calibration Summaries <input type="checkbox"/> IV. Data Validation Report with Raw Data Edata Yes No		INVOICE INFORMATION PO # BILL TO:									
STATE WHERE SAMPLES WERE COLLECTED		RELIQUISHED BY		RECEIVED BY		RELIQUISHED BY		RECEIVED BY		RELIQUISHED BY		RECEIVED BY			
Signature Kevin Cronin		Signature Bob Moran		Signature Bob Moran		Signature Bob Moran		Signature Bob Moran		Signature Bob Moran		Signature Bob Moran			
Printed Name KEVIN CROININ		Printed Name BOB MORAN		Printed Name BOB MORAN		Printed Name BOB MORAN		Printed Name BOB MORAN		Printed Name BOB MORAN		Printed Name BOB MORAN			
Firm APTIM		Firm ALS		Firm ALS		Firm ALS		Firm ALS		Firm ALS		Firm ALS			
Date/Time 3/20/18 1515		Date/Time 3/20/18 1515		Date/Time 3/20/18 1796		Date/Time 3/20/18 1796		Date/Time 3/20/18 1707		Date/Time 3/20/18 1707		Date/Time 3/20/18 1707			

R1802398

APTIM, Inc
Textron Injections

5





Cooler Receipt and Preservation Check Form

R1802398

5

APTIM, Inc
Textron Injections



Project/Client APTIM Folder Number _____

Cooler received on 3/20/18 by: SW

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	Y <input checked="" type="radio"/> N <input type="radio"/>
2	Custody papers properly completed (ink, signed)?	Y <input checked="" type="radio"/> N <input type="radio"/>
3	Did all bottles arrive in good condition (unbroken)?	Y <input checked="" type="radio"/> N <input type="radio"/>
4	Circle: Wet Ice Dry Ice Gel packs present?	Y <input checked="" type="radio"/> N <input type="radio"/>

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

8. Temperature Readings Date: 3/20/18 Time: 1715 ID: IR#3 IR#9 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>4.0°</u>	<u>5.5°</u>						
Correction Factor (°C)	<u>±0.0</u>	<u>±0.0</u>						
Corrected Temp (°C)	<u>4.0°</u>	<u>5.5°</u>						
Temp from: Type of bottle								
Within 0-6°C?	<input checked="" type="radio"/> Y <input type="radio"/> N	<input checked="" type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N
If <0°C, were samples frozen?	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> N	<input type="radio"/> Y <input type="radio"/> 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 SW on 3/20/18 at 1715
5035 samples placed in storage location: _____ by _____ on _____ at _____

Cooler Breakdown/Preservation Check**: Date: 3/21/18 Time: 1058 by: SW

- 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
- 13. Air Samples: Cassettes / Tubes Intact with MS? YES NO N/A
Canisters Pressurized YES NO N/A
Tedlar® Bags Inflated YES NO N/A

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
≤2		HNO ₃								
≤2	<u>201817</u>	H ₂ SO ₄	<input checked="" type="checkbox"/>		<u>185993</u>	<u>2/19</u>				
<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 ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃								
		ZnAcetate	-	-						
		HCl	**	**	<u>4115120</u>	<u>2/19</u>				

**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: 7249-002, 101617-1BMC, 091817-2AAD

Explain all Discrepancies/ Other Comments:

H₂SO₄ lot = 185422 Exp. 1/19

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

Labels secondary reviewed by: SW
PC Secondary Review: SW 3/20/18

*significant air bubbles: VOA > 5-6 mm : WC > 1 in. diameter
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CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

49008

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Project Name TEXTRON INJECTIONS		Project Number 631236336		ANALYSIS REQUESTED (Include Method Number and Container Preservative)																																																																																																																																														
Project Manager CECELIA BYERS		Report CC		PRESERVATIVE 1																																																																																																																																														
Company/Address APTIM		NUMBER OF CONTAINERS		<div style="display: flex; justify-content: space-between;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> GC/MS VOAs 8260 • 824 • CLP GC/MS SVOAs 8270 • 825 GC VOAs 8021 • 601/602 PESTICIDES 8081 • 608 PCBs 8082 • 608 METALS, TOTAL (List in comments below) METALS, DISSOLVED (List in comments below) TOC 5310 C VOLATILE FATRY ACIDS 8015 ETHYLENE-DIBROMIDE CO2 9056 A </div> <div style="text-align: right;"> Preservative Key 0. NONE 1. HCL 2. HNO₃ 3. H₂SO₄ 4. NaOH 5. Zn. Acetate 6. MeOH 7. NaHSO₄ 8. Other _____ REMARKS/ ALTERNATE DESCRIPTION </div> </div>																																																																																																																																														
13 BRITISH AMERICAN BLVD.																																																																																																																																																		
LATHAM, NY 12110																																																																																																																																																		
Phone # 518-783-1996		Email CECELIA.BYERS@APTIM.COM		<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>CLIENT SAMPLE ID</th> <th>FOR OFFICE USE ONLY LAB ID</th> <th colspan="2">SAMPLING</th> <th>MATRIX</th> <th>10</th> <th colspan="5"></th> <th colspan="2">pHs:</th> </tr> <tr> <th>DATE</th> <th>TIME</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>BAT-87-17(1) 180321</td> <td></td> <td>3/21/18</td> <td>1005</td> <td>GW</td> <td>10</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> <td>X</td> <td>X</td> <td>X</td> <td>7.98</td> </tr> <tr> <td>BAT-89-15(1) 180321</td> <td></td> <td></td> <td>1035</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>7.20</td> </tr> <tr> <td>BAT-DW-10-180321</td> <td></td> <td></td> <td>1100</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>* 7.26</td> </tr> <tr> <td>BAT-87-08(1) 180321</td> <td></td> <td></td> <td>1135</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>7.55</td> </tr> <tr> <td>BAT-B-10A(1) 180321</td> <td></td> <td></td> <td>1215</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>7.85</td> </tr> <tr> <td>BAT-DW-9-180321</td> <td></td> <td></td> <td>1230</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>8.24</td> </tr> <tr> <td>BAT-87-13(1) 180321</td> <td></td> <td></td> <td>1300</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>* </td> </tr> </tbody> </table>												CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING		MATRIX	10						pHs:		DATE	TIME												BAT-87-17(1) 180321		3/21/18	1005	GW	10	X					X	X	X	7.98	BAT-89-15(1) 180321			1035											7.20	BAT-DW-10-180321			1100											* 7.26	BAT-87-08(1) 180321			1135											7.55	BAT-B-10A(1) 180321			1215											7.85	BAT-DW-9-180321			1230											8.24	BAT-87-13(1) 180321			1300											*
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Sampler's Signature Kevin Cronin		Sampler's Printed Name KEVIN CRONIN																																																																																																																																																
SPECIAL INSTRUCTIONS/COMMENTS Metals * PRODUCT MAY BE PRESENT pH for BAT-87-13(1) is 6.99 as per Kevein Cronin See QAPP <input type="checkbox"/>				TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) 1 day 2 day 3 day 4 day 5 day REQUESTED REPORT DATE STANDARD				REPORT REQUIREMENTS <input checked="" type="checkbox"/> I. Results Only <input type="checkbox"/> II. Results + QC Summaries (LCS, DUP, MS/MSD as required) <input type="checkbox"/> III. Results + QC and Calibration Summaries <input type="checkbox"/> IV. Data Validation Report with Raw Data Edata Yes No				INVOICE INFORMATION PO # BILL TO:																																																																																																																																						
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Signature Kevin Cronin		Signature [Signature]		Signature [Signature]		Signature [Signature]		Signature [Signature]		Signature [Signature]		Signature [Signature]		Signature [Signature]																																																																																																																																				
Printed Name KEVIN CRONIN		Printed Name [Name]		Printed Name [Name]		Printed Name [Name]		Printed Name [Name]		Printed Name [Name]		Printed Name [Name]		Printed Name [Name]																																																																																																																																				
Firm APTIM		Firm [Firm]		Firm [Firm]		Firm [Firm]		Firm [Firm]		Firm [Firm]		Firm [Firm]		Firm [Firm]																																																																																																																																				
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R1802398 **5**
APTIM, Inc
Textron Injections



Cooler Receipt and Preservation Check Form

R1802398

5

APTIM, Inc
Textron Injections



Project/Client APTIM Folder Number _____

Cooler received on 3/21/18 by: SW

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	Y <input checked="" type="checkbox"/>
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?	<input checked="" type="checkbox"/> N

5a	Perchlorate samples have required headspace?	Y N <input checked="" type="checkbox"/>
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y N NA
6	Where did the bottles originate?	<u>AKS/ROC</u> CLIENT
7	Soil VOA received as:	Bulk Encore 5035set <u>NA</u>

8. Temperature Readings Date: 3/21/18 Time: 1455 ID: IR#7 IR#9 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>5.5</u>	<u>5.4</u>					
Correction Factor (°C)	<u>±0.0</u>	<u>±0.0</u>					
Corrected Temp (°C)	<u>5.5</u>	<u>5.4</u>					
Temp from: Type of bottle							
Within 0-6°C?	<input checked="" type="checkbox"/> N	<input checked="" type="checkbox"/> 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 SW on 3/21/18 at 1455
5035 samples placed in storage location: _____ by _____ on _____ at _____

Cooler Breakdown/Preservation Check**: Date: 3/21/18 Time: 1645 by: Q

- 9. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO dat/stim
- 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
- 13. Air Samples: Cassettes / Tubes Intact with MS? Canisters Pressurized Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
≈		HNO ₃								
≈	<u>201817</u>	H ₂ SO ₄	<input checked="" type="checkbox"/>		<u>185993</u>					
<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 ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃								
		Zn Acetate	-	-						
		HCl	**	**	<u>4115120</u>	<u>2/19</u>				

**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: 7-249-003, 091817-0880, 101617-18MC
Explain all Discrepancies/ Other Comments:

H₂SO₄ lot # 185422 Exp 1/19

Rec'd 2 sets of TBS not on COC

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

Labels secondary reviewed by: [Signature]
PC Secondary Review: [Signature] 3/20/18

*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

- | | |
|---|--|
| <p>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.</p> <p>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/Aroclors).</p> <p>B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.</p> <p>E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.</p> <p>E Organics- Concentration has exceeded the calibration range for that specific analysis.</p> <p>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.</p> <p>* Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.</p> <p>H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.</p> <p># Spike was diluted out.</p> | <p>+ Correlation coefficient for MSA is <0.995.</p> <p>N Inorganics- Matrix spike recovery was outside laboratory limits.</p> <p>N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.</p> <p>S Concentration has been determined using Method of Standard Additions (MSA).</p> <p>W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.</p> <p>P Concentration >40% difference between the two GC columns.</p> <p>C Confirmed by GC/MS</p> <p>Q DoD reports: indicates a pesticide/Aroclor is not confirmed ($\times 100\%$ Difference between two GC columns).</p> <p>X See Case Narrative for discussion.</p> <p>MRL Method Reporting Limit. Also known as:</p> <p>LOQ Limit of Quantitation (LOQ)
The lowest concentration at which the method analyte may be reliably quantified under the method conditions.</p> <p>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).</p> <p>LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.</p> <p>ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.</p> |
|---|--|



Rochester Lab ID # for State Certifications¹

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID #
Delaware Approved	New Jersey ID # NY004	294100 A/B
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 laboratory's 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
Project: Textron Injection/631236330

Service Request: R1802398

Non-Certified Analytes

Certifying Agency: New York Department of Health

Method	Matrix	Analyte
Organic Acids	Water	Acetic Acid
Organic Acids	Water	Butanoic Acid (Butyric Acid)
Organic Acids	Water	Lactic Acid
Organic Acids	Water	Propionic Acid
Organic Acids	Water	Pyruvic Acid
SM 3500-Fe B.4.c	Water	Iron, Divalent (Ferrous Iron)
SM 4500-CO2 D	Water	Carbon Dioxide
SM 4500-H+ B	Water	pH, Field

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: APTIM, Inc
Project: Textron Injection/631236330

Service Request: R1802398

Sample Name: BAT-87-02 (1) 180320
Lab Code: R1802398-001
Sample Matrix: Water

Date Collected: 03/20/18
Date Received: 03/20/18

Analysis Method	Extracted/Digested By	Analyzed By
8260C		DLIPANI
9056A		AMOSSES
Organic Acids		BALLGEIER
RSK 175		BALLGEIER
SM 2320 B-1997(2011)		CWOODS
SM 3500-Fe B.4.c		MROGERSON
SM 4500-CO2 D		CWOODS
SM 4500-H+ B		JJANSON
SM 5310 C-2000(2011)		CWOODS

Sample Name: BAT-87-01 (1) 180320
Lab Code: R1802398-002
Sample Matrix: Water

Date Collected: 03/20/18
Date Received: 03/20/18

Analysis Method	Extracted/Digested By	Analyzed By
8260C		DLIPANI
9056A		AMOSSES
Organic Acids		BALLGEIER
RSK 175		BALLGEIER
SM 2320 B-1997(2011)		CWOODS
SM 3500-Fe B.4.c		MROGERSON
SM 4500-CO2 D		CWOODS
SM 4500-H+ B		JJANSON
SM 5310 C-2000(2011)		CWOODS

Sample Name: BAT-87-12 (1) 180320
Lab Code: R1802398-003
Sample Matrix: Water

Date Collected: 03/20/18
Date Received: 03/20/18

Analysis Method	Extracted/Digested By	Analyzed By
8260C		DLIPANI
9056A		AMOSSES

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Analyst Summary report

Client: APTIM, Inc
Project: Textron Injection/631236330

Service Request: R1802398

Sample Name: BAT-87-12 (1) 180320
Lab Code: R1802398-003
Sample Matrix: Water

Date Collected: 03/20/18
Date Received: 03/20/18

Analysis Method	Extracted/Digested By	Analyzed By
Organic Acids		BALLGEIER
RSK 175		BALLGEIER
SM 2320 B-1997(2011)		CWOODS
SM 3500-Fe B.4.c		MROGERSON
SM 4500-CO2 D		CWOODS
SM 4500-H+ B		JJANSON
SM 5310 C-2000(2011)		CWOODS

Sample Name: BAT-89-12 (1) 180320
Lab Code: R1802398-004
Sample Matrix: Water

Date Collected: 03/20/18
Date Received: 03/20/18

Analysis Method	Extracted/Digested By	Analyzed By
8260C		DLIPANI
9056A		AMOSSES
Organic Acids		BALLGEIER
RSK 175		BALLGEIER
SM 2320 B-1997(2011)		CWOODS
SM 3500-Fe B.4.c		MROGERSON
SM 4500-CO2 D		CWOODS
SM 4500-H+ B		JJANSON
SM 5310 C-2000(2011)		CWOODS

Sample Name: BAT-DW-12 180320
Lab Code: R1802398-005
Sample Matrix: Water

Date Collected: 03/20/18
Date Received: 03/20/18

Analysis Method	Extracted/Digested By	Analyzed By
8260C		DLIPANI
9056A		AMOSSES
Organic Acids		BALLGEIER
RSK 175		BALLGEIER

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Analyst Summary report

Client: APTIM, Inc
Project: Textron Injection/631236330

Service Request: R1802398

Sample Name: BAT-DW-12 180320
Lab Code: R1802398-005
Sample Matrix: Water

Date Collected: 03/20/18
Date Received: 03/20/18

Analysis Method	Extracted/Digested By	Analyzed By
SM 2320 B-1997(2011)		CWOODS
SM 3500-Fe B.4.c		MROGERSON
SM 4500-CO2 D		CWOODS
SM 4500-H+ B		JJANSON
SM 5310 C-2000(2011)		CWOODS

Sample Name: BAT-89-10 (1) 180320
Lab Code: R1802398-006
Sample Matrix: Water

Date Collected: 03/20/18
Date Received: 03/20/18

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST
9056A		AMOSSES
Organic Acids		BALLGEIER
RSK 175		BALLGEIER
SM 2320 B-1997(2011)		CWOODS
SM 3500-Fe B.4.c		MROGERSON
SM 4500-CO2 D		CWOODS
SM 4500-H+ B		JJANSON
SM 5310 C-2000(2011)		CWOODS

Sample Name: BAT-87-20 (1) 180320
Lab Code: R1802398-007
Sample Matrix: Water

Date Collected: 03/20/18
Date Received: 03/20/18

Analysis Method	Extracted/Digested By	Analyzed By
8260C		DLIPANI
9056A		AMOSSES
Organic Acids		BALLGEIER
RSK 175		BALLGEIER
SM 2320 B-1997(2011)		CWOODS
SM 3500-Fe B.4.c		MROGERSON

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Analyst Summary report

Client: APTIM, Inc
Project: Textron Injection/631236330

Service Request: R1802398

Sample Name: BAT-87-20 (1) 180320
Lab Code: R1802398-007
Sample Matrix: Water

Date Collected: 03/20/18
Date Received: 03/20/18

Analysis Method

SM 4500-CO2 D
SM 4500-H+ B
SM 5310 C-2000(2011)

Extracted/Digested By

Analyzed By

CWOODS
JJANSON
CWOODS

Sample Name: BAT-87-22 (1) 180320
Lab Code: R1802398-008
Sample Matrix: Water

Date Collected: 03/20/18
Date Received: 03/20/18

Analysis Method

8260C
9056A
Organic Acids
RSK 175
SM 2320 B-1997(2011)
SM 3500-Fe B.4.c
SM 4500-CO2 D
SM 4500-H+ B
SM 5310 C-2000(2011)

Extracted/Digested By

Analyzed By

KRUEST
AMOSSES
BALLGEIER
BALLGEIER
CWOODS
MROGERSON
CWOODS
JJANSON
CWOODS

Sample Name: BAT-DW-11 180320
Lab Code: R1802398-009
Sample Matrix: Water

Date Collected: 03/20/18
Date Received: 03/20/18

Analysis Method

8260C
9056A
Organic Acids
RSK 175
SM 2320 B-1997(2011)
SM 3500-Fe B.4.c
SM 4500-CO2 D
SM 4500-H+ B

Extracted/Digested By

Analyzed By

DLIPANI
AMOSSES
BALLGEIER
BALLGEIER
CWOODS
MROGERSON
CWOODS
JJANSON

ALS Group USA, Corp.
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Analyst Summary report

Client: APTIM, Inc
Project: Textron Injection/631236330

Service Request: R1802398

Sample Name: BAT-DW-11 180320
Lab Code: R1802398-009
Sample Matrix: Water

Date Collected: 03/20/18
Date Received: 03/20/18

Analysis Method
SM 5310 C-2000(2011)

Extracted/Digested By

Analyzed By
CWOODS

Sample Name: BAT-87-09 (1) 180320
Lab Code: R1802398-010
Sample Matrix: Water

Date Collected: 03/20/18
Date Received: 03/20/18

Analysis Method

8260C
9056A
Organic Acids
RSK 175
SM 2320 B-1997(2011)
SM 3500-Fe B.4.c
SM 4500-CO2 D
SM 4500-H+ B
SM 5310 C-2000(2011)

Extracted/Digested By

Analyzed By

DLIPANI
AMOSSES
BALLGEIER
BALLGEIER
CWOODS
MROGERSON
CWOODS
JJANSON
CWOODS

Sample Name: BAT-B-14 (1) 180320
Lab Code: R1802398-011
Sample Matrix: Water

Date Collected: 03/20/18
Date Received: 03/20/18

Analysis Method

8260C
9056A
Organic Acids
RSK 175
SM 2320 B-1997(2011)
SM 3500-Fe B.4.c
SM 4500-CO2 D
SM 4500-H+ B
SM 5310 C-2000(2011)

Extracted/Digested By

Analyzed By

DLIPANI
AMOSSES
BALLGEIER
BALLGEIER
CWOODS
MROGERSON
CWOODS
JJANSON
CWOODS

ALS Group USA, Corp.
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Analyst Summary report

Client: APTIM, Inc
Project: Textron Injection/631236330

Service Request: R1802398

Sample Name: BAT-87-17 (1) 180321
Lab Code: R1802398-012
Sample Matrix: Water

Date Collected: 03/21/18
Date Received: 03/21/18

Analysis Method	Extracted/Digested By	Analyzed By
8260C		DLIPANI
9056A		AMOSSES
Organic Acids		BALLGEIER
RSK 175		BALLGEIER
SM 2320 B-1997(2011)		CWOODS
SM 3500-Fe B.4.c		MROGERSON
SM 4500-CO2 D		CWOODS
SM 4500-H+ B		NA
SM 5310 C-2000(2011)		CWOODS

Sample Name: BAT-89-15 (1) 180321
Lab Code: R1802398-013
Sample Matrix: Water

Date Collected: 03/21/18
Date Received: 03/21/18

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST
8260C		DLIPANI
9056A		AMOSSES
Organic Acids		BALLGEIER
RSK 175		BALLGEIER
SM 2320 B-1997(2011)		CWOODS
SM 3500-Fe B.4.c		MROGERSON
SM 4500-CO2 D		CWOODS
SM 4500-H+ B		NA
SM 5310 C-2000(2011)		CWOODS

Sample Name: BAT-DW-10 180321
Lab Code: R1802398-014
Sample Matrix: Water

Date Collected: 03/21/18
Date Received: 03/21/18

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST

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Analyst Summary report

Client: APTIM, Inc
Project: Textron Injection/631236330

Service Request: R1802398

Sample Name: BAT-DW-10 180321
Lab Code: R1802398-014
Sample Matrix: Water

Date Collected: 03/21/18
Date Received: 03/21/18

Analysis Method	Extracted/Digested By	Analyzed By
9056A		AMOSES
Organic Acids		BALLGEIER
RSK 175		BALLGEIER
SM 2320 B-1997(2011)		CWOODS
SM 3500-Fe B.4.c		MROGERSON
SM 4500-CO2 D		CWOODS
SM 4500-H+ B		NA
SM 5310 C-2000(2011)		CWOODS

Sample Name: BAT-87-08 (1) 180321
Lab Code: R1802398-015
Sample Matrix: Water

Date Collected: 03/21/18
Date Received: 03/21/18

Analysis Method	Extracted/Digested By	Analyzed By
8260C		DLIPANI
9056A		AMOSES
Organic Acids		BALLGEIER
RSK 175		BALLGEIER
SM 2320 B-1997(2011)		CWOODS
SM 3500-Fe B.4.c		MROGERSON
SM 4500-CO2 D		CWOODS
SM 4500-H+ B		NA
SM 5310 C-2000(2011)		CWOODS

Sample Name: BAT-B-10A (1) 180321
Lab Code: R1802398-016
Sample Matrix: Water

Date Collected: 03/21/18
Date Received: 03/21/18

Analysis Method	Extracted/Digested By	Analyzed By
8260C		DLIPANI
9056A		AMOSES
Organic Acids		BALLGEIER

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Analyst Summary report

Client: APTIM, Inc
Project: Textron Injection/631236330

Service Request: R1802398

Sample Name: BAT-B-10A (1) 180321
Lab Code: R1802398-016
Sample Matrix: Water

Date Collected: 03/21/18
Date Received: 03/21/18

Analysis Method	Extracted/Digested By	Analyzed By
RSK 175		BALLGEIER
SM 2320 B-1997(2011)		CWOODS
SM 3500-Fe B.4.c		MROGERSON
SM 4500-CO2 D		CWOODS
SM 4500-H+ B		NA
SM 5310 C-2000(2011)		CWOODS

Sample Name: BAT-DW-9 180321
Lab Code: R1802398-017
Sample Matrix: Water

Date Collected: 03/21/18
Date Received: 03/21/18

Analysis Method	Extracted/Digested By	Analyzed By
8260C		KRUEST
9056A		AMOSSES
Organic Acids		BALLGEIER
RSK 175		BALLGEIER
SM 2320 B-1997(2011)		CWOODS
SM 3500-Fe B.4.c		MROGERSON
SM 4500-CO2 D		CWOODS
SM 4500-H+ B		NA
SM 5310 C-2000(2011)		CWOODS

Sample Name: BAT-87-13 (1) 180321
Lab Code: R1802398-018
Sample Matrix: Water

Date Collected: 03/21/18
Date Received: 03/21/18

Analysis Method	Extracted/Digested By	Analyzed By
8260C		DLIPANI
9056A		AMOSSES
Organic Acids		BALLGEIER
RSK 175		BALLGEIER
SM 2320 B-1997(2011)		CWOODS

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Analyst Summary report

Client: APTIM, Inc
Project: Textron Injection/631236330

Service Request: R1802398

Sample Name: BAT-87-13 (1) 180321
Lab Code: R1802398-018
Sample Matrix: Water

Date Collected: 03/21/18
Date Received: 03/21/18

Analysis Method
SM 3500-Fe B.4.c
SM 4500-CO2 D
SM 4500-H+ B
SM 5310 C-2000(2011)

Extracted/Digested By

Analyzed By
MROGERSON
NA
NA
CWOODS

Sample Name: Trip Blank 1
Lab Code: R1802398-019
Sample Matrix: Water

Date Collected: 03/20/18
Date Received: 03/21/18

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST

Sample Name: Trip Blank 2
Lab Code: R1802398-020
Sample Matrix: Water

Date Collected: 03/21/18
Date Received: 03/21/18

Analysis Method
8260C

Extracted/Digested By

Analyzed By
KRUEST



INORGANIC PREPARATION METHODS

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

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: R1802398
Date Collected: 03/20/18 09:40
Date Received: 03/20/18 17:07

Sample Name: BAT-87-02 (1) 180320
Lab Code: R1802398-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	20 U	20	4.2	20	03/27/18 16:07	
Vinyl Chloride	1100	20	6.4	20	03/27/18 16:07	
Chloroethane	20 U	20	4.8	20	03/27/18 16:07	
Bromomethane	20 U	20	5.8	20	03/27/18 16:07	
1,1-Dichloroethene	20 U	20	12	20	03/27/18 16:07	
Acetone	100 U	100	25	20	03/27/18 16:07	
Carbon Disulfide	28	20	4.4	20	03/27/18 16:07	
Methylene Chloride	34	20	12	20	03/27/18 16:07	
trans-1,2-Dichloroethene	8.6 J	20	6.6	20	03/27/18 16:07	
1,1-Dichloroethane	29	20	4.0	20	03/27/18 16:07	
cis-1,2-Dichloroethene	2100	20	6.0	20	03/27/18 16:07	
2-Butanone (MEK)	100 U	100	17	20	03/27/18 16:07	
Chloroform	20 U	20	5.0	20	03/27/18 16:07	
1,1,1-Trichloroethane	27	20	7.2	20	03/27/18 16:07	
Carbon Tetrachloride	20 U	20	9.0	20	03/27/18 16:07	
Benzene	20 U	20	4.0	20	03/27/18 16:07	
1,2-Dichloroethane	20 U	20	7.2	20	03/27/18 16:07	
Trichloroethene	88	20	4.4	20	03/27/18 16:07	
1,2-Dichloropropane	20 U	20	4.0	20	03/27/18 16:07	
Bromodichloromethane	20 U	20	6.4	20	03/27/18 16:07	
cis-1,3-Dichloropropene	20 U	20	4.8	20	03/27/18 16:07	
4-Methyl-2-pentanone (MIBK)	100 U	100	14	20	03/27/18 16:07	
Toluene	20 U	20	4.0	20	03/27/18 16:07	
trans-1,3-Dichloropropene	20 U	20	4.0	20	03/27/18 16:07	
1,1,2-Trichloroethane	20 U	20	6.8	20	03/27/18 16:07	
Tetrachloroethene	20 U	20	6.0	20	03/27/18 16:07	
2-Hexanone	100 U	100	34	20	03/27/18 16:07	
Dibromochloromethane	20 U	20	6.2	20	03/27/18 16:07	
Chlorobenzene	20 U	20	5.8	20	03/27/18 16:07	
Ethylbenzene	20 U	20	4.0	20	03/27/18 16:07	
m,p-Xylenes	40 U	40	6.6	20	03/27/18 16:07	
o-Xylene	20 U	20	4.0	20	03/27/18 16:07	
Styrene	20 U	20	4.0	20	03/27/18 16:07	
Bromoform	20 U	20	8.4	20	03/27/18 16:07	
1,1,2,2-Tetrachloroethane	20 U	20	5.0	20	03/27/18 16:07	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631236330
Sample Matrix: Water
Sample Name: BAT-87-02 (1) 180320
Lab Code: R1802398-001

Service Request: R1802398
Date Collected: 03/20/18 09:40
Date Received: 03/20/18 17:07
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	03/27/18 16:07	
Toluene-d8	102	87 - 121	03/27/18 16:07	
Dibromofluoromethane	105	89 - 119	03/27/18 16:07	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631236330
Sample Matrix: Water
Sample Name: BAT-87-01 (1) 180320
Lab Code: R1802398-002

Service Request: R1802398
Date Collected: 03/20/18 10:10
Date Received: 03/20/18 17:07
Units: ug/L
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	03/26/18 22:07	
Vinyl Chloride	150	1.0	0.32	1	03/26/18 22:07	
Chloroethane	1.0 U	1.0	0.24	1	03/26/18 22:07	
Bromomethane	1.0 U	1.0	0.29	1	03/26/18 22:07	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	03/26/18 22:07	
Acetone	7.1	5.0	1.3	1	03/26/18 22:07	
Carbon Disulfide	32	1.0	0.22	1	03/26/18 22:07	
Methylene Chloride	29	1.0	0.60	1	03/26/18 22:07	
trans-1,2-Dichloroethene	6.4	1.0	0.33	1	03/26/18 22:07	
1,1-Dichloroethane	15	1.0	0.20	1	03/26/18 22:07	
cis-1,2-Dichloroethene	58	1.0	0.30	1	03/26/18 22:07	
2-Butanone (MEK)	3.8 J	5.0	0.81	1	03/26/18 22:07	
Chloroform	1.0 U	1.0	0.25	1	03/26/18 22:07	
1,1,1-Trichloroethane	18	1.0	0.36	1	03/26/18 22:07	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	03/26/18 22:07	
Benzene	1.0 U	1.0	0.20	1	03/26/18 22:07	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	03/26/18 22:07	
Trichloroethene	3.7	1.0	0.22	1	03/26/18 22:07	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	03/26/18 22:07	
Bromodichloromethane	1.0 U	1.0	0.32	1	03/26/18 22:07	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	03/26/18 22:07	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	03/26/18 22:07	
Toluene	0.22 J	1.0	0.20	1	03/26/18 22:07	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	03/26/18 22:07	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	03/26/18 22:07	
Tetrachloroethene	1.0 U	1.0	0.30	1	03/26/18 22:07	
2-Hexanone	5.0 U	5.0	1.7	1	03/26/18 22:07	
Dibromochloromethane	1.0 U	1.0	0.31	1	03/26/18 22:07	
Chlorobenzene	1.0 U	1.0	0.29	1	03/26/18 22:07	
Ethylbenzene	1.0 U	1.0	0.20	1	03/26/18 22:07	
m,p-Xylenes	2.0 U	2.0	0.33	1	03/26/18 22:07	
o-Xylene	1.0 U	1.0	0.20	1	03/26/18 22:07	
Styrene	1.0 U	1.0	0.20	1	03/26/18 22:07	
Bromoform	1.0 U	1.0	0.42	1	03/26/18 22:07	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	03/26/18 22:07	

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Analytical Report

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

Service Request: R1802398
Date Collected: 03/20/18 10:10
Date Received: 03/20/18 17:07

Sample Name: BAT-87-01 (1) 180320
Lab Code: R1802398-002

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	03/26/18 22:07	
Toluene-d8	103	87 - 121	03/26/18 22:07	
Dibromofluoromethane	105	89 - 119	03/26/18 22:07	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: R1802398
Date Collected: 03/20/18 10:40
Date Received: 03/20/18 17:07

Sample Name: BAT-87-12 (1) 180320
Lab Code: R1802398-003

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	20 U	20	4.2	20	03/27/18 15:45	
Vinyl Chloride	2200	20	6.4	20	03/27/18 15:45	
Chloroethane	20 U	20	4.8	20	03/27/18 15:45	
Bromomethane	20 U	20	5.8	20	03/27/18 15:45	
1,1-Dichloroethene	20 U	20	12	20	03/27/18 15:45	
Acetone	100 U	100	25	20	03/27/18 15:45	
Carbon Disulfide	23	20	4.4	20	03/27/18 15:45	
Methylene Chloride	20 U	20	12	20	03/27/18 15:45	
trans-1,2-Dichloroethene	7.2 J	20	6.6	20	03/27/18 15:45	
1,1-Dichloroethane	25	20	4.0	20	03/27/18 15:45	
cis-1,2-Dichloroethene	1300	20	6.0	20	03/27/18 15:45	
2-Butanone (MEK)	100 U	100	17	20	03/27/18 15:45	
Chloroform	20 U	20	5.0	20	03/27/18 15:45	
1,1,1-Trichloroethane	28	20	7.2	20	03/27/18 15:45	
Carbon Tetrachloride	20 U	20	9.0	20	03/27/18 15:45	
Benzene	20 U	20	4.0	20	03/27/18 15:45	
1,2-Dichloroethane	20 U	20	7.2	20	03/27/18 15:45	
Trichloroethene	33	20	4.4	20	03/27/18 15:45	
1,2-Dichloropropane	20 U	20	4.0	20	03/27/18 15:45	
Bromodichloromethane	20 U	20	6.4	20	03/27/18 15:45	
cis-1,3-Dichloropropene	20 U	20	4.8	20	03/27/18 15:45	
4-Methyl-2-pentanone (MIBK)	100 U	100	14	20	03/27/18 15:45	
Toluene	20 U	20	4.0	20	03/27/18 15:45	
trans-1,3-Dichloropropene	20 U	20	4.0	20	03/27/18 15:45	
1,1,2-Trichloroethane	20 U	20	6.8	20	03/27/18 15:45	
Tetrachloroethene	20 U	20	6.0	20	03/27/18 15:45	
2-Hexanone	100 U	100	34	20	03/27/18 15:45	
Dibromochloromethane	20 U	20	6.2	20	03/27/18 15:45	
Chlorobenzene	20 U	20	5.8	20	03/27/18 15:45	
Ethylbenzene	20 U	20	4.0	20	03/27/18 15:45	
m,p-Xylenes	40 U	40	6.6	20	03/27/18 15:45	
o-Xylene	20 U	20	4.0	20	03/27/18 15:45	
Styrene	20 U	20	4.0	20	03/27/18 15:45	
Bromoform	20 U	20	8.4	20	03/27/18 15:45	
1,1,2,2-Tetrachloroethane	20 U	20	5.0	20	03/27/18 15:45	

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Analytical Report

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

Service Request: R1802398
Date Collected: 03/20/18 10:40
Date Received: 03/20/18 17:07

Sample Name: BAT-87-12 (1) 180320
Lab Code: R1802398-003

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	03/27/18 15:45	
Toluene-d8	98	87 - 121	03/27/18 15:45	
Dibromofluoromethane	101	89 - 119	03/27/18 15:45	

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Analytical Report

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

Service Request: R1802398
Date Collected: 03/20/18 11:10
Date Received: 03/20/18 17:07

Sample Name: BAT-89-12 (1) 180320
Lab Code: R1802398-004

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	5.0 U	5.0	1.1	5	03/26/18 18:08	
Vinyl Chloride	580	5.0	1.6	5	03/26/18 18:08	
Chloroethane	5.0 U	5.0	1.2	5	03/26/18 18:08	
Bromomethane	5.0 U	5.0	1.5	5	03/26/18 18:08	
1,1-Dichloroethene	5.0 U	5.0	2.9	5	03/26/18 18:08	
Acetone	25 U	25	6.2	5	03/26/18 18:08	
Carbon Disulfide	8.5	5.0	1.1	5	03/26/18 18:08	
Methylene Chloride	5.0 U	5.0	3.0	5	03/26/18 18:08	
trans-1,2-Dichloroethene	3.2 J	5.0	1.7	5	03/26/18 18:08	
1,1-Dichloroethane	14	5.0	1.0	5	03/26/18 18:08	
cis-1,2-Dichloroethene	420	5.0	1.5	5	03/26/18 18:08	
2-Butanone (MEK)	25 U	25	4.1	5	03/26/18 18:08	
Chloroform	5.0 U	5.0	1.3	5	03/26/18 18:08	
1,1,1-Trichloroethane	21	5.0	1.8	5	03/26/18 18:08	
Carbon Tetrachloride	5.0 U	5.0	2.3	5	03/26/18 18:08	
Benzene	5.0 U	5.0	1.0	5	03/26/18 18:08	
1,2-Dichloroethane	5.0 U	5.0	1.8	5	03/26/18 18:08	
Trichloroethene	20	5.0	1.1	5	03/26/18 18:08	
1,2-Dichloropropane	5.0 U	5.0	1.0	5	03/26/18 18:08	
Bromodichloromethane	5.0 U	5.0	1.6	5	03/26/18 18:08	
cis-1,3-Dichloropropene	5.0 U	5.0	1.2	5	03/26/18 18:08	
4-Methyl-2-pentanone (MIBK)	25 U	25	3.4	5	03/26/18 18:08	
Toluene	5.0 U	5.0	1.0	5	03/26/18 18:08	
trans-1,3-Dichloropropene	5.0 U	5.0	1.0	5	03/26/18 18:08	
1,1,2-Trichloroethane	5.0 U	5.0	1.7	5	03/26/18 18:08	
Tetrachloroethene	5.0 U	5.0	1.5	5	03/26/18 18:08	
2-Hexanone	25 U	25	8.3	5	03/26/18 18:08	
Dibromochloromethane	5.0 U	5.0	1.6	5	03/26/18 18:08	
Chlorobenzene	5.0 U	5.0	1.5	5	03/26/18 18:08	
Ethylbenzene	5.0 U	5.0	1.0	5	03/26/18 18:08	
m,p-Xylenes	10 U	10	1.7	5	03/26/18 18:08	
o-Xylene	5.0 U	5.0	1.0	5	03/26/18 18:08	
Styrene	5.0 U	5.0	1.0	5	03/26/18 18:08	
Bromoform	5.0 U	5.0	2.1	5	03/26/18 18:08	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1.3	5	03/26/18 18:08	

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Analytical Report

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

Service Request: R1802398
Date Collected: 03/20/18 11:10
Date Received: 03/20/18 17:07

Sample Name: BAT-89-12 (1) 180320
Lab Code: R1802398-004

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	03/26/18 18:08	
Toluene-d8	101	87 - 121	03/26/18 18:08	
Dibromofluoromethane	104	89 - 119	03/26/18 18:08	

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Analytical Report

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

Service Request: R1802398
Date Collected: 03/20/18 11:25
Date Received: 03/20/18 17:07

Sample Name: BAT-DW-12 180320
Lab Code: R1802398-005

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	03/26/18 17:46	
Vinyl Chloride	0.45 J	1.0	0.32	1	03/26/18 17:46	
Chloroethane	1.0 U	1.0	0.24	1	03/26/18 17:46	
Bromomethane	1.0 U	1.0	0.29	1	03/26/18 17:46	
1,1-Dichloroethane	1.0 U	1.0	0.57	1	03/26/18 17:46	
Acetone	5.0 U	5.0	1.3	1	03/26/18 17:46	
Carbon Disulfide	1.0 U	1.0	0.22	1	03/26/18 17:46	
Methylene Chloride	1.0 U	1.0	0.60	1	03/26/18 17:46	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	03/26/18 17:46	
1,1-Dichloroethane	0.76 J	1.0	0.20	1	03/26/18 17:46	
cis-1,2-Dichloroethene	4.2	1.0	0.30	1	03/26/18 17:46	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	03/26/18 17:46	
Chloroform	1.0 U	1.0	0.25	1	03/26/18 17:46	
1,1,1-Trichloroethane	1.0 U	1.0	0.36	1	03/26/18 17:46	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	03/26/18 17:46	
Benzene	1.0 U	1.0	0.20	1	03/26/18 17:46	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	03/26/18 17:46	
Trichloroethene	1.3	1.0	0.22	1	03/26/18 17:46	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	03/26/18 17:46	
Bromodichloromethane	1.0 U	1.0	0.32	1	03/26/18 17:46	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	03/26/18 17:46	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	03/26/18 17:46	
Toluene	1.0 U	1.0	0.20	1	03/26/18 17:46	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	03/26/18 17:46	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	03/26/18 17:46	
Tetrachloroethene	1.0 U	1.0	0.30	1	03/26/18 17:46	
2-Hexanone	5.0 U	5.0	1.7	1	03/26/18 17:46	
Dibromochloromethane	1.0 U	1.0	0.31	1	03/26/18 17:46	
Chlorobenzene	1.0 U	1.0	0.29	1	03/26/18 17:46	
Ethylbenzene	1.0 U	1.0	0.20	1	03/26/18 17:46	
m,p-Xylenes	2.0 U	2.0	0.33	1	03/26/18 17:46	
o-Xylene	1.0 U	1.0	0.20	1	03/26/18 17:46	
Styrene	1.0 U	1.0	0.20	1	03/26/18 17:46	
Bromoform	1.0 U	1.0	0.42	1	03/26/18 17:46	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	03/26/18 17:46	

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Analytical Report

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

Service Request: R1802398
Date Collected: 03/20/18 11:25
Date Received: 03/20/18 17:07

Sample Name: BAT-DW-12 180320
Lab Code: R1802398-005

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	03/26/18 17:46	
Toluene-d8	100	87 - 121	03/26/18 17:46	
Dibromofluoromethane	102	89 - 119	03/26/18 17:46	

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Analytical Report

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

Service Request: R1802398
Date Collected: 03/20/18 11:55
Date Received: 03/20/18 17:07

Sample Name: BAT-89-10 (1) 180320
Lab Code: R1802398-006

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	50 U	50	11	50	03/23/18 04:03	
Vinyl Chloride	400	50	16	50	03/23/18 04:03	
Chloroethane	50 U	50	12	50	03/23/18 04:03	
Bromomethane	50 U	50	15	50	03/23/18 04:03	
1,1-Dichloroethene	50 U	50	29	50	03/23/18 04:03	
Acetone	250 U	250	62	50	03/23/18 04:03	
Carbon Disulfide	210	50	11	50	03/23/18 04:03	
Methylene Chloride	4400	50	30	50	03/23/18 04:03	
trans-1,2-Dichloroethene	50 U	50	17	50	03/23/18 04:03	
1,1-Dichloroethane	18 J	50	10	50	03/23/18 04:03	
cis-1,2-Dichloroethene	1900	50	15	50	03/23/18 04:03	
2-Butanone (MEK)	250 U	250	41	50	03/23/18 04:03	
Chloroform	50 U	50	13	50	03/23/18 04:03	
1,1,1-Trichloroethane	31 J	50	18	50	03/23/18 04:03	
Carbon Tetrachloride	50 U	50	23	50	03/23/18 04:03	
Benzene	50 U	50	10	50	03/23/18 04:03	
1,2-Dichloroethane	50 U	50	18	50	03/23/18 04:03	
Trichloroethene	6400	50	11	50	03/23/18 04:03	
1,2-Dichloropropane	50 U	50	10	50	03/23/18 04:03	
Bromodichloromethane	50 U	50	16	50	03/23/18 04:03	
cis-1,3-Dichloropropene	50 U	50	12	50	03/23/18 04:03	
4-Methyl-2-pentanone (MIBK)	250 U	250	34	50	03/23/18 04:03	
Toluene	50 U	50	10	50	03/23/18 04:03	
trans-1,3-Dichloropropene	50 U	50	10	50	03/23/18 04:03	
1,1,2-Trichloroethane	50 U	50	17	50	03/23/18 04:03	
Tetrachloroethene	50 U	50	15	50	03/23/18 04:03	
2-Hexanone	250 U	250	83	50	03/23/18 04:03	
Dibromochloromethane	50 U	50	16	50	03/23/18 04:03	
Chlorobenzene	50 U	50	15	50	03/23/18 04:03	
Ethylbenzene	50 U	50	10	50	03/23/18 04:03	
m,p-Xylenes	100 U	100	17	50	03/23/18 04:03	
o-Xylene	50 U	50	10	50	03/23/18 04:03	
Styrene	50 U	50	10	50	03/23/18 04:03	
Bromoform	50 U	50	21	50	03/23/18 04:03	
1,1,2,2-Tetrachloroethane	50 U	50	13	50	03/23/18 04:03	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631236330
Sample Matrix: Water
Sample Name: BAT-89-10 (1) 180320
Lab Code: R1802398-006

Service Request: R1802398
Date Collected: 03/20/18 11:55
Date Received: 03/20/18 17:07
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	03/23/18 04:03	
Toluene-d8	100	87 - 121	03/23/18 04:03	
Dibromofluoromethane	94	89 - 119	03/23/18 04:03	

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Analytical Report

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

Service Request: R1802398
Date Collected: 03/20/18 13:15
Date Received: 03/20/18 17:07

Sample Name: BAT-87-20 (1) 180320
Lab Code: R1802398-007

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	25 U	25	5.3	25	03/26/18 21:02	
Vinyl Chloride	1200	25	8.0	25	03/26/18 21:02	
Chloroethane	25 U	25	6.0	25	03/26/18 21:02	
Bromomethane	25 U	25	7.3	25	03/26/18 21:02	
1,1-Dichloroethene	25 U	25	15	25	03/26/18 21:02	
Acetone	130 U	130	31	25	03/26/18 21:02	
Carbon Disulfide	24 J	25	5.5	25	03/26/18 21:02	
Methylene Chloride	20 J	25	15	25	03/26/18 21:02	
trans-1,2-Dichloroethene	25 U	25	8.3	25	03/26/18 21:02	
1,1-Dichloroethane	12 J	25	5.0	25	03/26/18 21:02	
cis-1,2-Dichloroethene	2800	25	7.5	25	03/26/18 21:02	
2-Butanone (MEK)	130 U	130	21	25	03/26/18 21:02	
Chloroform	25 U	25	6.3	25	03/26/18 21:02	
1,1,1-Trichloroethane	14 J	25	9.0	25	03/26/18 21:02	
Carbon Tetrachloride	25 U	25	12	25	03/26/18 21:02	
Benzene	25 U	25	5.0	25	03/26/18 21:02	
1,2-Dichloroethane	25 U	25	9.0	25	03/26/18 21:02	
Trichloroethene	47	25	5.5	25	03/26/18 21:02	
1,2-Dichloropropane	25 U	25	5.0	25	03/26/18 21:02	
Bromodichloromethane	25 U	25	8.0	25	03/26/18 21:02	
cis-1,3-Dichloropropene	25 U	25	6.0	25	03/26/18 21:02	
4-Methyl-2-pentanone (MIBK)	130 U	130	17	25	03/26/18 21:02	
Toluene	25 U	25	5.0	25	03/26/18 21:02	
trans-1,3-Dichloropropene	25 U	25	5.0	25	03/26/18 21:02	
1,1,2-Trichloroethane	25 U	25	8.5	25	03/26/18 21:02	
Tetrachloroethene	25 U	25	7.5	25	03/26/18 21:02	
2-Hexanone	130 U	130	42	25	03/26/18 21:02	
Dibromochloromethane	25 U	25	7.8	25	03/26/18 21:02	
Chlorobenzene	25 U	25	7.3	25	03/26/18 21:02	
Ethylbenzene	25 U	25	5.0	25	03/26/18 21:02	
m,p-Xylenes	50 U	50	8.3	25	03/26/18 21:02	
o-Xylene	25 U	25	5.0	25	03/26/18 21:02	
Styrene	25 U	25	5.0	25	03/26/18 21:02	
Bromoform	25 U	25	11	25	03/26/18 21:02	
1,1,2,2-Tetrachloroethane	25 U	25	6.3	25	03/26/18 21:02	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631236330
Sample Matrix: Water
Sample Name: BAT-87-20 (1) 180320
Lab Code: R1802398-007

Service Request: R1802398
Date Collected: 03/20/18 13:15
Date Received: 03/20/18 17:07
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	03/26/18 21:02	
Toluene-d8	102	87 - 121	03/26/18 21:02	
Dibromofluoromethane	104	89 - 119	03/26/18 21:02	

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Analytical Report

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

Service Request: R1802398
Date Collected: 03/20/18 13:45
Date Received: 03/20/18 17:07

Sample Name: BAT-87-22 (1) 180320
Lab Code: R1802398-008

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	20 U	20	4.2	20	03/23/18 03:19	
Vinyl Chloride	1100	20	6.4	20	03/23/18 03:19	
Chloroethane	20 U	20	4.8	20	03/23/18 03:19	
Bromomethane	20 U	20	5.8	20	03/23/18 03:19	
1,1-Dichloroethene	20 U	20	12	20	03/23/18 03:19	
Acetone	100 U	100	25	20	03/23/18 03:19	
Carbon Disulfide	20 U	20	4.4	20	03/23/18 03:19	
Methylene Chloride	20 U	20	12	20	03/23/18 03:19	
trans-1,2-Dichloroethene	17 J	20	6.6	20	03/23/18 03:19	
1,1-Dichloroethane	9.9 J	20	4.0	20	03/23/18 03:19	
cis-1,2-Dichloroethene	2500	20	6.0	20	03/23/18 03:19	
2-Butanone (MEK)	100 U	100	17	20	03/23/18 03:19	
Chloroform	20 U	20	5.0	20	03/23/18 03:19	
1,1,1-Trichloroethane	20 U	20	7.2	20	03/23/18 03:19	
Carbon Tetrachloride	20 U	20	9.0	20	03/23/18 03:19	
Benzene	20 U	20	4.0	20	03/23/18 03:19	
1,2-Dichloroethane	20 U	20	7.2	20	03/23/18 03:19	
Trichloroethene	11 J	20	4.4	20	03/23/18 03:19	
1,2-Dichloropropane	20 U	20	4.0	20	03/23/18 03:19	
Bromodichloromethane	20 U	20	6.4	20	03/23/18 03:19	
cis-1,3-Dichloropropene	20 U	20	4.8	20	03/23/18 03:19	
4-Methyl-2-pentanone (MIBK)	100 U	100	14	20	03/23/18 03:19	
Toluene	20 U	20	4.0	20	03/23/18 03:19	
trans-1,3-Dichloropropene	20 U	20	4.0	20	03/23/18 03:19	
1,1,2-Trichloroethane	20 U	20	6.8	20	03/23/18 03:19	
Tetrachloroethene	20 U	20	6.0	20	03/23/18 03:19	
2-Hexanone	100 U	100	34	20	03/23/18 03:19	
Dibromochloromethane	20 U	20	6.2	20	03/23/18 03:19	
Chlorobenzene	20 U	20	5.8	20	03/23/18 03:19	
Ethylbenzene	20 U	20	4.0	20	03/23/18 03:19	
m,p-Xylenes	40 U	40	6.6	20	03/23/18 03:19	
o-Xylene	20 U	20	4.0	20	03/23/18 03:19	
Styrene	20 U	20	4.0	20	03/23/18 03:19	
Bromoform	20 U	20	8.4	20	03/23/18 03:19	
1,1,2,2-Tetrachloroethane	20 U	20	5.0	20	03/23/18 03:19	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631236330
Sample Matrix: Water
Sample Name: BAT-87-22 (1) 180320
Lab Code: R1802398-008

Service Request: R1802398
Date Collected: 03/20/18 13:45
Date Received: 03/20/18 17:07
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	03/23/18 03:19	
Toluene-d8	99	87 - 121	03/23/18 03:19	
Dibromofluoromethane	93	89 - 119	03/23/18 03:19	

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Analytical Report

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

Service Request: R1802398
Date Collected: 03/20/18 14:05
Date Received: 03/20/18 17:07

Sample Name: BAT-DW-11 180320
Lab Code: R1802398-009

Units: ug/L
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	03/26/18 15:06	
Vinyl Chloride	190 D	10	3.2	10	03/26/18 21:46	
Chloroethane	1.0 U	1.0	0.24	1	03/26/18 15:06	
Bromomethane	1.0 U	1.0	0.29	1	03/26/18 15:06	
1,1-Dichloroethene	2.2	1.0	0.57	1	03/26/18 15:06	
Acetone	2.6 J	5.0	1.3	1	03/26/18 15:06	
Carbon Disulfide	8.8	1.0	0.22	1	03/26/18 15:06	
Methylene Chloride	72	1.0	0.60	1	03/26/18 15:06	
trans-1,2-Dichloroethene	1.5	1.0	0.33	1	03/26/18 15:06	
1,1-Dichloroethane	17	1.0	0.20	1	03/26/18 15:06	
cis-1,2-Dichloroethene	190	1.0	0.30	1	03/26/18 15:06	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	03/26/18 15:06	
Chloroform	1.0 U	1.0	0.25	1	03/26/18 15:06	
1,1,1-Trichloroethane	58	1.0	0.36	1	03/26/18 15:06	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	03/26/18 15:06	
Benzene	1.0 U	1.0	0.20	1	03/26/18 15:06	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	03/26/18 15:06	
Trichloroethene	1300 D	10	2.2	10	03/26/18 21:46	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	03/26/18 15:06	
Bromodichloromethane	1.0 U	1.0	0.32	1	03/26/18 15:06	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	03/26/18 15:06	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	03/26/18 15:06	
Toluene	1.2	1.0	0.20	1	03/26/18 15:06	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	03/26/18 15:06	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	03/26/18 15:06	
Tetrachloroethene	0.55 J	1.0	0.30	1	03/26/18 15:06	
2-Hexanone	5.0 U	5.0	1.7	1	03/26/18 15:06	
Dibromochloromethane	1.0 U	1.0	0.31	1	03/26/18 15:06	
Chlorobenzene	1.0 U	1.0	0.29	1	03/26/18 15:06	
Ethylbenzene	0.22 J	1.0	0.20	1	03/26/18 15:06	
m,p-Xylenes	0.78 J	2.0	0.33	1	03/26/18 15:06	
o-Xylene	0.31 J	1.0	0.20	1	03/26/18 15:06	
Styrene	1.0 U	1.0	0.20	1	03/26/18 15:06	
Bromoform	1.0 U	1.0	0.42	1	03/26/18 15:06	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	03/26/18 15:06	

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Analytical Report

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

Service Request: R1802398
Date Collected: 03/20/18 14:05
Date Received: 03/20/18 17:07

Sample Name: BAT-DW-11 180320
Lab Code: R1802398-009

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	101	85 - 122	03/26/18 15:06	
Toluene-d8	103	87 - 121	03/26/18 15:06	
Dibromofluoromethane	109	89 - 119	03/26/18 15:06	

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Analytical Report

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

Service Request: R1802398
Date Collected: 03/20/18 14:35
Date Received: 03/20/18 17:07

Sample Name: BAT-87-09 (1) 180320
Lab Code: R1802398-010

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	2.0 U	2.0	0.42	2	03/26/18 18:30	
Vinyl Chloride	170	2.0	0.64	2	03/26/18 18:30	
Chloroethane	2.0 U	2.0	0.48	2	03/26/18 18:30	
Bromomethane	2.0 U	2.0	0.58	2	03/26/18 18:30	
1,1-Dichloroethene	1.2 J	2.0	1.2	2	03/26/18 18:30	
Acetone	10 U	10	2.5	2	03/26/18 18:30	
Carbon Disulfide	2.0 U	2.0	0.44	2	03/26/18 18:30	
Methylene Chloride	2.0 U	2.0	1.2	2	03/26/18 18:30	
trans-1,2-Dichloroethene	1.3 J	2.0	0.66	2	03/26/18 18:30	
1,1-Dichloroethane	16	2.0	0.40	2	03/26/18 18:30	
cis-1,2-Dichloroethene	130	2.0	0.60	2	03/26/18 18:30	
2-Butanone (MEK)	10 U	10	1.7	2	03/26/18 18:30	
Chloroform	2.0 U	2.0	0.50	2	03/26/18 18:30	
1,1,1-Trichloroethane	83	2.0	0.72	2	03/26/18 18:30	
Carbon Tetrachloride	2.0 U	2.0	0.90	2	03/26/18 18:30	
Benzene	2.0 U	2.0	0.40	2	03/26/18 18:30	
1,2-Dichloroethane	2.0 U	2.0	0.72	2	03/26/18 18:30	
Trichloroethene	2.1	2.0	0.44	2	03/26/18 18:30	
1,2-Dichloropropane	2.0 U	2.0	0.40	2	03/26/18 18:30	
Bromodichloromethane	2.0 U	2.0	0.64	2	03/26/18 18:30	
cis-1,3-Dichloropropene	2.0 U	2.0	0.48	2	03/26/18 18:30	
4-Methyl-2-pentanone (MIBK)	10 U	10	1.4	2	03/26/18 18:30	
Toluene	2.0 U	2.0	0.40	2	03/26/18 18:30	
trans-1,3-Dichloropropene	2.0 U	2.0	0.40	2	03/26/18 18:30	
1,1,2-Trichloroethane	2.0 U	2.0	0.68	2	03/26/18 18:30	
Tetrachloroethene	2.0 U	2.0	0.60	2	03/26/18 18:30	
2-Hexanone	10 U	10	3.4	2	03/26/18 18:30	
Dibromochloromethane	2.0 U	2.0	0.62	2	03/26/18 18:30	
Chlorobenzene	2.0 U	2.0	0.58	2	03/26/18 18:30	
Ethylbenzene	2.0 U	2.0	0.40	2	03/26/18 18:30	
m,p-Xylenes	4.0 U	4.0	0.66	2	03/26/18 18:30	
o-Xylene	2.0 U	2.0	0.40	2	03/26/18 18:30	
Styrene	2.0 U	2.0	0.40	2	03/26/18 18:30	
Bromoform	2.0 U	2.0	0.84	2	03/26/18 18:30	
1,1,2,2-Tetrachloroethane	2.0 U	2.0	0.50	2	03/26/18 18:30	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631236330
Sample Matrix: Water
Sample Name: BAT-87-09 (1) 180320
Lab Code: R1802398-010

Service Request: R1802398
Date Collected: 03/20/18 14:35
Date Received: 03/20/18 17:07
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	03/26/18 18:30	
Toluene-d8	102	87 - 121	03/26/18 18:30	
Dibromofluoromethane	107	89 - 119	03/26/18 18:30	

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Analytical Report

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

Service Request: R1802398
Date Collected: 03/20/18 15:05
Date Received: 03/20/18 17:07

Sample Name: BAT-B-14 (1) 180320
Lab Code: R1802398-011

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	2.0 U	2.0	0.42	2	03/26/18 19:35	
Vinyl Chloride	180	2.0	0.64	2	03/26/18 19:35	
Chloroethane	2.0 U	2.0	0.48	2	03/26/18 19:35	
Bromomethane	2.0 U	2.0	0.58	2	03/26/18 19:35	
1,1-Dichloroethene	2.0 U	2.0	1.2	2	03/26/18 19:35	
Acetone	4.6 J	10	2.5	2	03/26/18 19:35	
Carbon Disulfide	2.0 U	2.0	0.44	2	03/26/18 19:35	
Methylene Chloride	2.0 U	2.0	1.2	2	03/26/18 19:35	
trans-1,2-Dichloroethene	1.5 J	2.0	0.66	2	03/26/18 19:35	
1,1-Dichloroethane	16	2.0	0.40	2	03/26/18 19:35	
cis-1,2-Dichloroethene	120	2.0	0.60	2	03/26/18 19:35	
2-Butanone (MEK)	10 U	10	1.7	2	03/26/18 19:35	
Chloroform	2.0 U	2.0	0.50	2	03/26/18 19:35	
1,1,1-Trichloroethane	58	2.0	0.72	2	03/26/18 19:35	
Carbon Tetrachloride	2.0 U	2.0	0.90	2	03/26/18 19:35	
Benzene	2.0 U	2.0	0.40	2	03/26/18 19:35	
1,2-Dichloroethane	2.0 U	2.0	0.72	2	03/26/18 19:35	
Trichloroethene	1.7 J	2.0	0.44	2	03/26/18 19:35	
1,2-Dichloropropane	2.0 U	2.0	0.40	2	03/26/18 19:35	
Bromodichloromethane	2.0 U	2.0	0.64	2	03/26/18 19:35	
cis-1,3-Dichloropropene	2.0 U	2.0	0.48	2	03/26/18 19:35	
4-Methyl-2-pentanone (MIBK)	10 U	10	1.4	2	03/26/18 19:35	
Toluene	2.0 U	2.0	0.40	2	03/26/18 19:35	
trans-1,3-Dichloropropene	2.0 U	2.0	0.40	2	03/26/18 19:35	
1,1,2-Trichloroethane	2.0 U	2.0	0.68	2	03/26/18 19:35	
Tetrachloroethene	2.0 U	2.0	0.60	2	03/26/18 19:35	
2-Hexanone	10 U	10	3.4	2	03/26/18 19:35	
Dibromochloromethane	2.0 U	2.0	0.62	2	03/26/18 19:35	
Chlorobenzene	2.0 U	2.0	0.58	2	03/26/18 19:35	
Ethylbenzene	2.0 U	2.0	0.40	2	03/26/18 19:35	
m,p-Xylenes	4.0 U	4.0	0.66	2	03/26/18 19:35	
o-Xylene	2.0 U	2.0	0.40	2	03/26/18 19:35	
Styrene	2.0 U	2.0	0.40	2	03/26/18 19:35	
Bromoform	2.0 U	2.0	0.84	2	03/26/18 19:35	
1,1,2,2-Tetrachloroethane	2.0 U	2.0	0.50	2	03/26/18 19:35	

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Analytical Report

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

Service Request: R1802398
Date Collected: 03/20/18 15:05
Date Received: 03/20/18 17:07

Sample Name: BAT-B-14 (1) 180320
Lab Code: R1802398-011

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	99	85 - 122	03/26/18 19:35	
Toluene-d8	102	87 - 121	03/26/18 19:35	
Dibromofluoromethane	106	89 - 119	03/26/18 19:35	

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Analytical Report

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

Service Request: R1802398
Date Collected: 03/21/18 10:05
Date Received: 03/21/18 14:55

Sample Name: BAT-87-17 (1) 180321
Lab Code: R1802398-012

Units: ug/L
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	03/26/18 19:57	
Vinyl Chloride	290	2.5	0.80	2.5	03/26/18 19:57	
Chloroethane	2.5 U	2.5	0.60	2.5	03/26/18 19:57	
Bromomethane	2.5 U	2.5	0.73	2.5	03/26/18 19:57	
1,1-Dichloroethene	2.5 U	2.5	1.5	2.5	03/26/18 19:57	
Acetone	13 U	13	3.1	2.5	03/26/18 19:57	
Carbon Disulfide	2.5 U	2.5	0.55	2.5	03/26/18 19:57	
Methylene Chloride	2.5 U	2.5	1.5	2.5	03/26/18 19:57	
trans-1,2-Dichloroethene	1.8 J	2.5	0.83	2.5	03/26/18 19:57	
1,1-Dichloroethane	22	2.5	0.50	2.5	03/26/18 19:57	
cis-1,2-Dichloroethene	97	2.5	0.75	2.5	03/26/18 19:57	
2-Butanone (MEK)	13 U	13	2.1	2.5	03/26/18 19:57	
Chloroform	2.5 U	2.5	0.63	2.5	03/26/18 19:57	
1,1,1-Trichloroethane	100	2.5	0.90	2.5	03/26/18 19:57	
Carbon Tetrachloride	2.5 U	2.5	1.2	2.5	03/26/18 19:57	
Benzene	2.5 U	2.5	0.50	2.5	03/26/18 19:57	
1,2-Dichloroethane	2.5 U	2.5	0.90	2.5	03/26/18 19:57	
Trichloroethene	2.3 J	2.5	0.55	2.5	03/26/18 19:57	
1,2-Dichloropropane	2.5 U	2.5	0.50	2.5	03/26/18 19:57	
Bromodichloromethane	2.5 U	2.5	0.80	2.5	03/26/18 19:57	
cis-1,3-Dichloropropene	2.5 U	2.5	0.60	2.5	03/26/18 19:57	
4-Methyl-2-pentanone (MIBK)	13 U	13	1.7	2.5	03/26/18 19:57	
Toluene	2.5 U	2.5	0.50	2.5	03/26/18 19:57	
trans-1,3-Dichloropropene	2.5 U	2.5	0.50	2.5	03/26/18 19:57	
1,1,2-Trichloroethane	2.5 U	2.5	0.85	2.5	03/26/18 19:57	
Tetrachloroethene	2.5 U	2.5	0.75	2.5	03/26/18 19:57	
2-Hexanone	13 U	13	4.2	2.5	03/26/18 19:57	
Dibromochloromethane	2.5 U	2.5	0.78	2.5	03/26/18 19:57	
Chlorobenzene	2.5 U	2.5	0.73	2.5	03/26/18 19:57	
Ethylbenzene	2.5 U	2.5	0.50	2.5	03/26/18 19:57	
m,p-Xylenes	5.0 U	5.0	0.83	2.5	03/26/18 19:57	
o-Xylene	2.5 U	2.5	0.50	2.5	03/26/18 19:57	
Styrene	2.5 U	2.5	0.50	2.5	03/26/18 19:57	
Bromoform	2.5 U	2.5	1.1	2.5	03/26/18 19:57	
1,1,2,2-Tetrachloroethane	2.5 U	2.5	0.63	2.5	03/26/18 19:57	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631236330
Sample Matrix: Water
Sample Name: BAT-87-17 (1) 180321
Lab Code: R1802398-012

Service Request: R1802398
Date Collected: 03/21/18 10:05
Date Received: 03/21/18 14:55
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	98	85 - 122	03/26/18 19:57	
Toluene-d8	103	87 - 121	03/26/18 19:57	
Dibromofluoromethane	108	89 - 119	03/26/18 19:57	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: R1802398
Date Collected: 03/21/18 10:35
Date Received: 03/21/18 14:55

Sample Name: BAT-89-15 (1) 180321
Lab Code: R1802398-013

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	50 U	50	11	50	03/23/18 04:24	
Vinyl Chloride	840	50	16	50	03/23/18 04:24	
Chloroethane	50 U	50	12	50	03/23/18 04:24	
Bromomethane	50 U	50	15	50	03/23/18 04:24	
1,1-Dichloroethene	50 U	50	29	50	03/23/18 04:24	
Acetone	250 U	250	62	50	03/23/18 04:24	
Carbon Disulfide	310	50	11	50	03/23/18 04:24	
Methylene Chloride	15000 D	100	60	100	03/27/18 15:19	
trans-1,2-Dichloroethene	50 U	50	17	50	03/23/18 04:24	
1,1-Dichloroethane	50 U	50	10	50	03/23/18 04:24	
cis-1,2-Dichloroethene	790	50	15	50	03/23/18 04:24	
2-Butanone (MEK)	250 U	250	41	50	03/23/18 04:24	
Chloroform	50 U	50	13	50	03/23/18 04:24	
1,1,1-Trichloroethane	50 U	50	18	50	03/23/18 04:24	
Carbon Tetrachloride	50 U	50	23	50	03/23/18 04:24	
Benzene	50 U	50	10	50	03/23/18 04:24	
1,2-Dichloroethane	50 U	50	18	50	03/23/18 04:24	
Trichloroethene	510	50	11	50	03/23/18 04:24	
1,2-Dichloropropane	50 U	50	10	50	03/23/18 04:24	
Bromodichloromethane	50 U	50	16	50	03/23/18 04:24	
cis-1,3-Dichloropropene	50 U	50	12	50	03/23/18 04:24	
4-Methyl-2-pentanone (MIBK)	250 U	250	34	50	03/23/18 04:24	
Toluene	50 U	50	10	50	03/23/18 04:24	
trans-1,3-Dichloropropene	50 U	50	10	50	03/23/18 04:24	
1,1,2-Trichloroethane	50 U	50	17	50	03/23/18 04:24	
Tetrachloroethene	50 U	50	15	50	03/23/18 04:24	
2-Hexanone	250 U	250	83	50	03/23/18 04:24	
Dibromochloromethane	50 U	50	16	50	03/23/18 04:24	
Chlorobenzene	50 U	50	15	50	03/23/18 04:24	
Ethylbenzene	50 U	50	10	50	03/23/18 04:24	
m,p-Xylenes	100 U	100	17	50	03/23/18 04:24	
o-Xylene	50 U	50	10	50	03/23/18 04:24	
Styrene	50 U	50	10	50	03/23/18 04:24	
Bromoform	50 U	50	21	50	03/23/18 04:24	
1,1,2,2-Tetrachloroethane	50 U	50	13	50	03/23/18 04:24	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631236330
Sample Matrix: Water
Sample Name: BAT-89-15 (1) 180321
Lab Code: R1802398-013

Service Request: R1802398
Date Collected: 03/21/18 10:35
Date Received: 03/21/18 14:55
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	03/23/18 04:24	
Toluene-d8	99	87 - 121	03/23/18 04:24	
Dibromofluoromethane	94	89 - 119	03/23/18 04:24	

ALS Group USA, Corp.
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Analytical Report

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

Service Request: R1802398
Date Collected: 03/21/18 11:00
Date Received: 03/21/18 14:55

Sample Name: BAT-DW-10 180321
Lab Code: R1802398-014

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	100 U	100	21	100	03/23/18 04:46	
Vinyl Chloride	160	100	32	100	03/23/18 04:46	
Chloroethane	100 U	100	24	100	03/23/18 04:46	
Bromomethane	100 U	100	29	100	03/23/18 04:46	
1,1-Dichloroethene	100 U	100	57	100	03/23/18 04:46	
Acetone	500 U	500	130	100	03/23/18 04:46	
Carbon Disulfide	28 J	100	22	100	03/23/18 04:46	
Methylene Chloride	14000	100	60	100	03/23/18 04:46	
trans-1,2-Dichloroethene	100 U	100	33	100	03/23/18 04:46	
1,1-Dichloroethane	100 U	100	20	100	03/23/18 04:46	
cis-1,2-Dichloroethene	640	100	30	100	03/23/18 04:46	
2-Butanone (MEK)	500 U	500	81	100	03/23/18 04:46	
Chloroform	93 J	100	25	100	03/23/18 04:46	
1,1,1-Trichloroethane	100 U	100	36	100	03/23/18 04:46	
Carbon Tetrachloride	100 U	100	45	100	03/23/18 04:46	
Benzene	100 U	100	20	100	03/23/18 04:46	
1,2-Dichloroethane	100 U	100	36	100	03/23/18 04:46	
Trichloroethene	13000	100	22	100	03/23/18 04:46	
1,2-Dichloropropane	100 U	100	20	100	03/23/18 04:46	
Bromodichloromethane	100 U	100	32	100	03/23/18 04:46	
cis-1,3-Dichloropropene	100 U	100	24	100	03/23/18 04:46	
4-Methyl-2-pentanone (MIBK)	500 U	500	67	100	03/23/18 04:46	
Toluene	100 U	100	20	100	03/23/18 04:46	
trans-1,3-Dichloropropene	100 U	100	20	100	03/23/18 04:46	
1,1,2-Trichloroethane	100 U	100	34	100	03/23/18 04:46	
Tetrachloroethene	100 U	100	30	100	03/23/18 04:46	
2-Hexanone	500 U	500	170	100	03/23/18 04:46	
Dibromochloromethane	100 U	100	31	100	03/23/18 04:46	
Chlorobenzene	100 U	100	29	100	03/23/18 04:46	
Ethylbenzene	100 U	100	20	100	03/23/18 04:46	
m,p-Xylenes	200 U	200	33	100	03/23/18 04:46	
o-Xylene	100 U	100	20	100	03/23/18 04:46	
Styrene	100 U	100	20	100	03/23/18 04:46	
Bromoform	100 U	100	42	100	03/23/18 04:46	
1,1,2,2-Tetrachloroethane	100 U	100	25	100	03/23/18 04:46	

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Analytical Report

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

Service Request: R1802398
Date Collected: 03/21/18 11:00
Date Received: 03/21/18 14:55

Sample Name: BAT-DW-10 180321
Lab Code: R1802398-014

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85 - 122	03/23/18 04:46	
Toluene-d8	98	87 - 121	03/23/18 04:46	
Dibromofluoromethane	94	89 - 119	03/23/18 04:46	

ALS Group USA, Corp.
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Analytical Report

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

Service Request: R1802398
Date Collected: 03/21/18 11:35
Date Received: 03/21/18 14:55

Sample Name: BAT-87-08 (1) 180321
Lab Code: R1802398-015

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	10 U	10	2.1	10	03/27/18 16:31	
Vinyl Chloride	1300	10	3.2	10	03/27/18 16:31	
Chloroethane	10 U	10	2.4	10	03/27/18 16:31	
Bromomethane	10 U	10	2.9	10	03/27/18 16:31	
1,1-Dichloroethene	9.0 J	10	5.7	10	03/27/18 16:31	
Acetone	50 U	50	13	10	03/27/18 16:31	
Carbon Disulfide	17	10	2.2	10	03/27/18 16:31	
Methylene Chloride	110	10	6.0	10	03/27/18 16:31	
trans-1,2-Dichloroethene	9.7 J	10	3.3	10	03/27/18 16:31	
1,1-Dichloroethane	20	10	2.0	10	03/27/18 16:31	
cis-1,2-Dichloroethene	1800	10	3.0	10	03/27/18 16:31	
2-Butanone (MEK)	50 U	50	8.1	10	03/27/18 16:31	
Chloroform	10 U	10	2.5	10	03/27/18 16:31	
1,1,1-Trichloroethane	8.0 J	10	3.6	10	03/27/18 16:31	
Carbon Tetrachloride	10 U	10	4.5	10	03/27/18 16:31	
Benzene	10 U	10	2.0	10	03/27/18 16:31	
1,2-Dichloroethane	10 U	10	3.6	10	03/27/18 16:31	
Trichloroethene	32	10	2.2	10	03/27/18 16:31	
1,2-Dichloropropane	10 U	10	2.0	10	03/27/18 16:31	
Bromodichloromethane	10 U	10	3.2	10	03/27/18 16:31	
cis-1,3-Dichloropropene	10 U	10	2.4	10	03/27/18 16:31	
4-Methyl-2-pentanone (MIBK)	50 U	50	6.7	10	03/27/18 16:31	
Toluene	10 U	10	2.0	10	03/27/18 16:31	
trans-1,3-Dichloropropene	10 U	10	2.0	10	03/27/18 16:31	
1,1,2-Trichloroethane	10 U	10	3.4	10	03/27/18 16:31	
Tetrachloroethene	10 U	10	3.0	10	03/27/18 16:31	
2-Hexanone	50 U	50	17	10	03/27/18 16:31	
Dibromochloromethane	10 U	10	3.1	10	03/27/18 16:31	
Chlorobenzene	10 U	10	2.9	10	03/27/18 16:31	
Ethylbenzene	10 U	10	2.0	10	03/27/18 16:31	
m,p-Xylenes	20 U	20	3.3	10	03/27/18 16:31	
o-Xylene	10 U	10	2.0	10	03/27/18 16:31	
Styrene	10 U	10	2.0	10	03/27/18 16:31	
Bromoform	10 U	10	4.2	10	03/27/18 16:31	
1,1,2,2-Tetrachloroethane	10 U	10	2.5	10	03/27/18 16:31	

ALS Group USA, Corp.
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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631236330
Sample Matrix: Water
Sample Name: BAT-87-08 (1) 180321
Lab Code: R1802398-015

Service Request: R1802398
Date Collected: 03/21/18 11:35
Date Received: 03/21/18 14:55
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	03/27/18 16:31	
Toluene-d8	101	87 - 121	03/27/18 16:31	
Dibromofluoromethane	104	89 - 119	03/27/18 16:31	

ALS Group USA, Corp.
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Analytical Report

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

Service Request: R1802398
Date Collected: 03/21/18 12:15
Date Received: 03/21/18 14:55

Sample Name: BAT-B-10A (1) 180321
Lab Code: R1802398-016

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	500 U	500	110	500	03/26/18 15:59	
Vinyl Chloride	370 J	500	160	500	03/26/18 15:59	
Chloroethane	500 U	500	120	500	03/26/18 15:59	
Bromomethane	500 U	500	150	500	03/26/18 15:59	
1,1-Dichloroethene	410 J	500	290	500	03/26/18 15:59	
Acetone	2500 U	2500	620	500	03/26/18 15:59	
Carbon Disulfide	500 U	500	110	500	03/26/18 15:59	
Methylene Chloride	3000	500	300	500	03/26/18 15:59	
trans-1,2-Dichloroethene	200 J	500	170	500	03/26/18 15:59	
1,1-Dichloroethane	380 J	500	100	500	03/26/18 15:59	
cis-1,2-Dichloroethene	52000	500	150	500	03/26/18 15:59	
2-Butanone (MEK)	2500 U	2500	410	500	03/26/18 15:59	
Chloroform	500 U	500	130	500	03/26/18 15:59	
1,1,1-Trichloroethane	1300	500	180	500	03/26/18 15:59	
Carbon Tetrachloride	500 U	500	230	500	03/26/18 15:59	
Benzene	500 U	500	100	500	03/26/18 15:59	
1,2-Dichloroethane	500 U	500	180	500	03/26/18 15:59	
Trichloroethene	33000	500	110	500	03/26/18 15:59	
1,2-Dichloropropane	500 U	500	100	500	03/26/18 15:59	
Bromodichloromethane	500 U	500	160	500	03/26/18 15:59	
cis-1,3-Dichloropropene	500 U	500	120	500	03/26/18 15:59	
4-Methyl-2-pentanone (MIBK)	2500 U	2500	340	500	03/26/18 15:59	
Toluene	500 U	500	100	500	03/26/18 15:59	
trans-1,3-Dichloropropene	500 U	500	100	500	03/26/18 15:59	
1,1,2-Trichloroethane	500 U	500	170	500	03/26/18 15:59	
Tetrachloroethene	500 U	500	150	500	03/26/18 15:59	
2-Hexanone	2500 U	2500	830	500	03/26/18 15:59	
Dibromochloromethane	500 U	500	160	500	03/26/18 15:59	
Chlorobenzene	500 U	500	150	500	03/26/18 15:59	
Ethylbenzene	500 U	500	100	500	03/26/18 15:59	
m,p-Xylenes	1000 U	1000	170	500	03/26/18 15:59	
o-Xylene	500 U	500	100	500	03/26/18 15:59	
Styrene	500 U	500	100	500	03/26/18 15:59	
Bromoform	500 U	500	210	500	03/26/18 15:59	
1,1,2,2-Tetrachloroethane	500 U	500	130	500	03/26/18 15:59	

ALS Group USA, Corp.
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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631236330
Sample Matrix: Water
Sample Name: BAT-B-10A (1) 180321
Lab Code: R1802398-016

Service Request: R1802398
Date Collected: 03/21/18 12:15
Date Received: 03/21/18 14:55
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	03/26/18 15:59	
Toluene-d8	99	87 - 121	03/26/18 15:59	
Dibromofluoromethane	102	89 - 119	03/26/18 15:59	

ALS Group USA, Corp.
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Analytical Report

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

Service Request: R1802398
Date Collected: 03/21/18 12:30
Date Received: 03/21/18 14:55

Sample Name: BAT-DW-9 180321
Lab Code: R1802398-017

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	03/22/18 23:42	
Vinyl Chloride	1.0 U	1.0	0.32	1	03/22/18 23:42	
Chloroethane	1.0 U	1.0	0.24	1	03/22/18 23:42	
Bromomethane	1.0 U	1.0	0.29	1	03/22/18 23:42	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	03/22/18 23:42	
Acetone	2.0 J	5.0	1.3	1	03/22/18 23:42	
Carbon Disulfide	1.0 U	1.0	0.22	1	03/22/18 23:42	
Methylene Chloride	1.0 U	1.0	0.60	1	03/22/18 23:42	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	03/22/18 23:42	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	03/22/18 23:42	
cis-1,2-Dichloroethene	3.9	1.0	0.30	1	03/22/18 23:42	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	03/22/18 23:42	
Chloroform	1.0 U	1.0	0.25	1	03/22/18 23:42	
1,1,1-Trichloroethane	1.0 U	1.0	0.36	1	03/22/18 23:42	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	03/22/18 23:42	
Benzene	1.0 U	1.0	0.20	1	03/22/18 23:42	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	03/22/18 23:42	
Trichloroethene	18	1.0	0.22	1	03/22/18 23:42	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	03/22/18 23:42	
Bromodichloromethane	1.0 U	1.0	0.32	1	03/22/18 23:42	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	03/22/18 23:42	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	03/22/18 23:42	
Toluene	1.0 U	1.0	0.20	1	03/22/18 23:42	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	03/22/18 23:42	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	03/22/18 23:42	
Tetrachloroethene	1.0 U	1.0	0.30	1	03/22/18 23:42	
2-Hexanone	5.0 U	5.0	1.7	1	03/22/18 23:42	
Dibromochloromethane	1.0 U	1.0	0.31	1	03/22/18 23:42	
Chlorobenzene	1.0 U	1.0	0.29	1	03/22/18 23:42	
Ethylbenzene	1.0 U	1.0	0.20	1	03/22/18 23:42	
m,p-Xylenes	2.0 U	2.0	0.33	1	03/22/18 23:42	
o-Xylene	1.0 U	1.0	0.20	1	03/22/18 23:42	
Styrene	1.0 U	1.0	0.20	1	03/22/18 23:42	
Bromoform	1.0 U	1.0	0.42	1	03/22/18 23:42	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	03/22/18 23:42	

ALS Group USA, Corp.
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Analytical Report

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

Service Request: R1802398
Date Collected: 03/21/18 12:30
Date Received: 03/21/18 14:55

Sample Name: BAT-DW-9 180321
Lab Code: R1802398-017

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	03/22/18 23:42	
Toluene-d8	98	87 - 121	03/22/18 23:42	
Dibromofluoromethane	94	89 - 119	03/22/18 23:42	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: R1802398
Date Collected: 03/21/18 13:00
Date Received: 03/21/18 14:55

Sample Name: BAT-87-13 (1) 180321
Lab Code: R1802398-018

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1000 U	1000	210	1000	03/26/18 17:00	
Vinyl Chloride	2400	1000	320	1000	03/26/18 17:00	
Chloroethane	1000 U	1000	240	1000	03/26/18 17:00	
Bromomethane	1000 U	1000	290	1000	03/26/18 17:00	
1,1-Dichloroethene	1000 U	1000	570	1000	03/26/18 17:00	
Acetone	5000 U	5000	1300	1000	03/26/18 17:00	
Carbon Disulfide	1000 U	1000	220	1000	03/26/18 17:00	
Methylene Chloride	120000	1000	600	1000	03/26/18 17:00	
trans-1,2-Dichloroethene	1000 U	1000	330	1000	03/26/18 17:00	
1,1-Dichloroethane	520 J	1000	200	1000	03/26/18 17:00	
cis-1,2-Dichloroethene	42000	1000	300	1000	03/26/18 17:00	
2-Butanone (MEK)	5000 U	5000	810	1000	03/26/18 17:00	
Chloroform	1000 U	1000	250	1000	03/26/18 17:00	
1,1,1-Trichloroethane	2000	1000	360	1000	03/26/18 17:00	
Carbon Tetrachloride	1000 U	1000	450	1000	03/26/18 17:00	
Benzene	1000 U	1000	200	1000	03/26/18 17:00	
1,2-Dichloroethane	1000 U	1000	360	1000	03/26/18 17:00	
Trichloroethene	84000	1000	220	1000	03/26/18 17:00	
1,2-Dichloropropane	1000 U	1000	200	1000	03/26/18 17:00	
Bromodichloromethane	1000 U	1000	320	1000	03/26/18 17:00	
cis-1,3-Dichloropropene	1000 U	1000	240	1000	03/26/18 17:00	
4-Methyl-2-pentanone (MIBK)	5000 U	5000	670	1000	03/26/18 17:00	
Toluene	1000 U	1000	200	1000	03/26/18 17:00	
trans-1,3-Dichloropropene	1000 U	1000	200	1000	03/26/18 17:00	
1,1,2-Trichloroethane	1000 U	1000	340	1000	03/26/18 17:00	
Tetrachloroethene	1000 U	1000	300	1000	03/26/18 17:00	
2-Hexanone	5000 U	5000	1700	1000	03/26/18 17:00	
Dibromochloromethane	1000 U	1000	310	1000	03/26/18 17:00	
Chlorobenzene	1000 U	1000	290	1000	03/26/18 17:00	
Ethylbenzene	1000 U	1000	200	1000	03/26/18 17:00	
m,p-Xylenes	2000 U	2000	330	1000	03/26/18 17:00	
o-Xylene	1000 U	1000	200	1000	03/26/18 17:00	
Styrene	1000 U	1000	200	1000	03/26/18 17:00	
Bromoform	1000 U	1000	420	1000	03/26/18 17:00	
1,1,2,2-Tetrachloroethane	1000 U	1000	250	1000	03/26/18 17:00	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: R1802398
Date Collected: 03/21/18 13:00
Date Received: 03/21/18 14:55

Sample Name: BAT-87-13 (1) 180321
Lab Code: R1802398-018

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	03/26/18 17:00	
Toluene-d8	99	87 - 121	03/26/18 17:00	
Dibromofluoromethane	100	89 - 119	03/26/18 17:00	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: R1802398
Date Collected: 03/20/18
Date Received: 03/21/18 14:55

Sample Name: Trip Blank 1
Lab Code: R1802398-019

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	03/22/18 22:37	
Vinyl Chloride	1.0 U	1.0	0.32	1	03/22/18 22:37	
Chloroethane	1.0 U	1.0	0.24	1	03/22/18 22:37	
Bromomethane	1.0 U	1.0	0.29	1	03/22/18 22:37	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	03/22/18 22:37	
Acetone	3.3 J	5.0	1.3	1	03/22/18 22:37	
Carbon Disulfide	1.0 U	1.0	0.22	1	03/22/18 22:37	
Methylene Chloride	1.0 U	1.0	0.60	1	03/22/18 22:37	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	03/22/18 22:37	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	03/22/18 22:37	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	03/22/18 22:37	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	03/22/18 22:37	
Chloroform	1.0 U	1.0	0.25	1	03/22/18 22:37	
1,1,1-Trichloroethane	1.0 U	1.0	0.36	1	03/22/18 22:37	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	03/22/18 22:37	
Benzene	1.0 U	1.0	0.20	1	03/22/18 22:37	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	03/22/18 22:37	
Trichloroethene	1.0 U	1.0	0.22	1	03/22/18 22:37	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	03/22/18 22:37	
Bromodichloromethane	1.0 U	1.0	0.32	1	03/22/18 22:37	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	03/22/18 22:37	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	03/22/18 22:37	
Toluene	1.0 U	1.0	0.20	1	03/22/18 22:37	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	03/22/18 22:37	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	03/22/18 22:37	
Tetrachloroethene	1.0 U	1.0	0.30	1	03/22/18 22:37	
2-Hexanone	5.0 U	5.0	1.7	1	03/22/18 22:37	
Dibromochloromethane	1.0 U	1.0	0.31	1	03/22/18 22:37	
Chlorobenzene	1.0 U	1.0	0.29	1	03/22/18 22:37	
Ethylbenzene	1.0 U	1.0	0.20	1	03/22/18 22:37	
m,p-Xylenes	2.0 U	2.0	0.33	1	03/22/18 22:37	
o-Xylene	1.0 U	1.0	0.20	1	03/22/18 22:37	
Styrene	1.0 U	1.0	0.20	1	03/22/18 22:37	
Bromoform	1.0 U	1.0	0.42	1	03/22/18 22:37	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	03/22/18 22:37	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: R1802398
Date Collected: 03/20/18
Date Received: 03/21/18 14:55

Sample Name: Trip Blank 1
Lab Code: R1802398-019

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	03/22/18 22:37	
Toluene-d8	98	87 - 121	03/22/18 22:37	
Dibromofluoromethane	91	89 - 119	03/22/18 22:37	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: R1802398
Date Collected: 03/21/18
Date Received: 03/21/18 14:55

Sample Name: Trip Blank 2
Lab Code: R1802398-020

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	03/22/18 22:59	
Vinyl Chloride	1.0 U	1.0	0.32	1	03/22/18 22:59	
Chloroethane	1.0 U	1.0	0.24	1	03/22/18 22:59	
Bromomethane	1.0 U	1.0	0.29	1	03/22/18 22:59	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	03/22/18 22:59	
Acetone	2.0 J	5.0	1.3	1	03/22/18 22:59	
Carbon Disulfide	1.0 U	1.0	0.22	1	03/22/18 22:59	
Methylene Chloride	1.0 U	1.0	0.60	1	03/22/18 22:59	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	03/22/18 22:59	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	03/22/18 22:59	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	03/22/18 22:59	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	03/22/18 22:59	
Chloroform	1.0 U	1.0	0.25	1	03/22/18 22:59	
1,1,1-Trichloroethane	1.0 U	1.0	0.36	1	03/22/18 22:59	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	03/22/18 22:59	
Benzene	1.0 U	1.0	0.20	1	03/22/18 22:59	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	03/22/18 22:59	
Trichloroethene	1.0 U	1.0	0.22	1	03/22/18 22:59	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	03/22/18 22:59	
Bromodichloromethane	1.0 U	1.0	0.32	1	03/22/18 22:59	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	03/22/18 22:59	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	03/22/18 22:59	
Toluene	1.0 U	1.0	0.20	1	03/22/18 22:59	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	03/22/18 22:59	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	03/22/18 22:59	
Tetrachloroethene	1.0 U	1.0	0.30	1	03/22/18 22:59	
2-Hexanone	5.0 U	5.0	1.7	1	03/22/18 22:59	
Dibromochloromethane	1.0 U	1.0	0.31	1	03/22/18 22:59	
Chlorobenzene	1.0 U	1.0	0.29	1	03/22/18 22:59	
Ethylbenzene	1.0 U	1.0	0.20	1	03/22/18 22:59	
m,p-Xylenes	2.0 U	2.0	0.33	1	03/22/18 22:59	
o-Xylene	1.0 U	1.0	0.20	1	03/22/18 22:59	
Styrene	1.0 U	1.0	0.20	1	03/22/18 22:59	
Bromoform	1.0 U	1.0	0.42	1	03/22/18 22:59	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	03/22/18 22:59	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: R1802398
Date Collected: 03/21/18
Date Received: 03/21/18 14:55

Sample Name: Trip Blank 2
Lab Code: R1802398-020

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	03/22/18 22:59	
Toluene-d8	98	87 - 121	03/22/18 22:59	
Dibromofluoromethane	92	89 - 119	03/22/18 22:59	



Volatile Organic Compounds by GC

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

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Analytical Report

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

Service Request: R1802398
Date Collected: 03/20/18 09:40
Date Received: 03/20/18 17:07

Sample Name: BAT-87-02 (1) 180320
Lab Code: R1802398-001

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	5	03/29/18 09:53	
Ethene	330	5.0	5	03/29/18 09:53	
Methane	120	5.3	5	03/29/18 09:53	

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Analytical Report

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

Service Request: R1802398
Date Collected: 03/20/18 10:10
Date Received: 03/20/18 17:07

Sample Name: BAT-87-01 (1) 180320
Lab Code: R1802398-002

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	1.0 U	1.0	1	03/28/18 12:53	
Ethene	470 D	10	10	03/28/18 13:04	
Methane	76	1.1	1	03/28/18 12:53	

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Analytical Report

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

Service Request: R1802398
Date Collected: 03/20/18 10:40
Date Received: 03/20/18 17:07

Sample Name: BAT-87-12 (1) 180320
Lab Code: R1802398-003

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	5	03/29/18 10:06	
Ethene	270	5.0	5	03/29/18 10:06	
Methane	46	5.3	5	03/29/18 10:06	

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Analytical Report

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

Service Request: R1802398
Date Collected: 03/20/18 11:10
Date Received: 03/20/18 17:07

Sample Name: BAT-89-12 (1) 180320
Lab Code: R1802398-004

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	10 U	10	10	03/29/18 10:17	
Ethene	370	10	10	03/29/18 10:17	
Methane	30	11	10	03/29/18 10:17	

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dba ALS Environmental

Analytical Report

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

Service Request: R1802398
Date Collected: 03/20/18 11:25
Date Received: 03/20/18 17:07

Sample Name: BAT-DW-12 180320
Lab Code: R1802398-005

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	1.0 U	1.0	1	03/28/18 13:16	
Ethene	1.0 U	1.0	1	03/28/18 13:16	
Methane	1.1 U	1.1	1	03/28/18 13:16	

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Analytical Report

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

Service Request: R1802398
Date Collected: 03/20/18 11:55
Date Received: 03/20/18 17:07

Sample Name: BAT-89-10 (1) 180320
Lab Code: R1802398-006

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	5.4	1.0	1	03/28/18 13:27	
Ethene	130 D	2.0	2	03/28/18 14:50	
Methane	15	1.1	1	03/28/18 13:27	

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Analytical Report

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

Service Request: R1802398
Date Collected: 03/20/18 13:15
Date Received: 03/20/18 17:07

Sample Name: BAT-87-20 (1) 180320
Lab Code: R1802398-007

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	1.7	1.0	1	03/28/18 14:03	
Ethene	110 D	2.0	2	03/28/18 15:01	
Methane	47	1.1	1	03/28/18 14:03	

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Analytical Report

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

Service Request: R1802398
Date Collected: 03/20/18 13:45
Date Received: 03/20/18 17:07

Sample Name: BAT-87-22 (1) 180320
Lab Code: R1802398-008

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	4.3	2.1	2	03/28/18 15:23	
Ethene	51	2.0	2	03/28/18 15:23	
Methane	170	2.1	2	03/28/18 15:23	

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Analytical Report

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

Service Request: R1802398
Date Collected: 03/20/18 14:05
Date Received: 03/20/18 17:07

Sample Name: BAT-DW-11 180320
Lab Code: R1802398-009

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	3.4	2.1	2	03/28/18 15:32	
Ethene	28	2.0	2	03/28/18 15:32	
Methane	54	2.1	2	03/28/18 15:32	

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Analytical Report

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

Service Request: R1802398
Date Collected: 03/20/18 14:35
Date Received: 03/20/18 17:07

Sample Name: BAT-87-09 (1) 180320
Lab Code: R1802398-010

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	1.0 U	1.0	1	03/28/18 15:54	
Ethene	8.0	1.0	1	03/28/18 15:54	
Methane	47	1.1	1	03/28/18 15:54	

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Analytical Report

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

Service Request: R1802398
Date Collected: 03/20/18 15:05
Date Received: 03/20/18 17:07

Sample Name: BAT-B-14 (1) 180320
Lab Code: R1802398-011

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	1.3	1.0	1	03/29/18 10:47	
Ethene	14	1.0	1	03/29/18 10:47	
Methane	61	1.1	1	03/29/18 10:47	

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dba ALS Environmental

Analytical Report

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

Service Request: R1802398
Date Collected: 03/21/18 10:05
Date Received: 03/21/18 14:55

Sample Name: BAT-87-17 (1) 180321
Lab Code: R1802398-012

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	1.2	1.0	1	03/29/18 10:59	
Ethene	12	1.0	1	03/29/18 10:59	
Methane	68	1.1	1	03/29/18 10:59	

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dba ALS Environmental

Analytical Report

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

Service Request: R1802398
Date Collected: 03/21/18 10:35
Date Received: 03/21/18 14:55

Sample Name: BAT-89-15 (1) 180321
Lab Code: R1802398-013

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	3.0	2.6	2.5	03/29/18 11:10	
Ethene	220 D	5.0	5	03/29/18 11:22	
Methane	110	2.6	2.5	03/29/18 11:10	

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Analytical Report

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

Service Request: R1802398
Date Collected: 03/21/18 11:00
Date Received: 03/21/18 14:55

Sample Name: BAT-DW-10 180321
Lab Code: R1802398-014

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	2.8	1.0	1	03/29/18 11:33	
Ethene	20	1.0	1	03/29/18 11:33	
Methane	56	1.1	1	03/29/18 11:33	

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Analytical Report

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

Service Request: R1802398
Date Collected: 03/21/18 11:35
Date Received: 03/21/18 14:55

Sample Name: BAT-87-08 (1) 180321
Lab Code: R1802398-015

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	5	03/29/18 11:44	
Ethene	170	5.0	5	03/29/18 11:44	
Methane	36	5.3	5	03/29/18 11:44	

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Analytical Report

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

Service Request: R1802398
Date Collected: 03/21/18 12:15
Date Received: 03/21/18 14:55

Sample Name: BAT-B-10A (1) 180321
Lab Code: R1802398-016

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	2.6	1.0	1	03/29/18 11:56	
Ethene	27	1.0	1	03/29/18 11:56	
Methane	73	1.1	1	03/29/18 11:56	

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Analytical Report

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

Service Request: R1802398
Date Collected: 03/21/18 12:30
Date Received: 03/21/18 14:55

Sample Name: BAT-DW-9 180321
Lab Code: R1802398-017

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	1.0 U	1.0	1	03/29/18 12:07	
Ethene	1.0 U	1.0	1	03/29/18 12:07	
Methane	1.1 U	1.1	1	03/29/18 12:07	

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Analytical Report

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

Service Request: R1802398
Date Collected: 03/21/18 13:00
Date Received: 03/21/18 14:55

Sample Name: BAT-87-13 (1) 180321
Lab Code: R1802398-018

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	7.4	2.6	2.5	03/29/18 12:33	
Ethene	210	2.5	2.5	03/29/18 12:33	
Methane	200	2.6	2.5	03/29/18 12:33	



Semivolatile Organic Compounds by GC

ALS Environmental—Rochester Laboratory
1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
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Analytical Report

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

Service Request: R1802398
Date Collected: 03/20/18 09:40
Date Received: 03/20/18 17:07

Sample Name: BAT-87-02 (1) 180320
Lab Code: R1802398-001

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	03/22/18 16:47	
Acetic Acid	140	1.0	1	03/22/18 16:47	
Butanoic Acid (Butyric Acid)	4.0	2.0	1	03/22/18 16:47	
Lactic Acid	1.0 U	1.0	1	03/22/18 16:47	
Propionic Acid	1.0 U	1.0	1	03/22/18 16:47	

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dba ALS Environmental

Analytical Report

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

Service Request: R1802398
Date Collected: 03/20/18 10:10
Date Received: 03/20/18 17:07

Sample Name: BAT-87-01 (1) 180320
Lab Code: R1802398-002

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	03/22/18 17:30	
Acetic Acid	59	1.0	1	03/22/18 17:30	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	03/22/18 17:30	
Lactic Acid	1.0 U	1.0	1	03/22/18 17:30	
Propionic Acid	1.0 U	1.0	1	03/22/18 17:30	

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dba ALS Environmental

Analytical Report

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

Service Request: R1802398
Date Collected: 03/20/18 10:40
Date Received: 03/20/18 17:07

Sample Name: BAT-87-12 (1) 180320
Lab Code: R1802398-003

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	03/22/18 18:03	
Acetic Acid	1.0 U	1.0	1	03/22/18 18:03	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	03/22/18 18:03	
Lactic Acid	1.0 U	1.0	1	03/22/18 18:03	
Propionic Acid	1.0 U	1.0	1	03/22/18 18:03	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: R1802398
Date Collected: 03/20/18 11:10
Date Received: 03/20/18 17:07

Sample Name: BAT-89-12 (1) 180320
Lab Code: R1802398-004

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	03/22/18 18:41	
Acetic Acid	1.0 U	1.0	1	03/22/18 18:41	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	03/22/18 18:41	
Lactic Acid	1.0 U	1.0	1	03/22/18 18:41	
Propionic Acid	1.0 U	1.0	1	03/22/18 18:41	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: R1802398
Date Collected: 03/20/18 11:25
Date Received: 03/20/18 17:07

Sample Name: BAT-DW-12 180320
Lab Code: R1802398-005

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	03/22/18 19:19	
Acetic Acid	1.0 U	1.0	1	03/22/18 19:19	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	03/22/18 19:19	
Lactic Acid	1.0 U	1.0	1	03/22/18 19:19	
Propionic Acid	1.0 U	1.0	1	03/22/18 19:19	

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Analytical Report

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

Service Request: R1802398
Date Collected: 03/20/18 11:55
Date Received: 03/20/18 17:07

Sample Name: BAT-89-10 (1) 180320
Lab Code: R1802398-006

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	03/22/18 20:00	
Acetic Acid	67	1.0	1	03/22/18 20:00	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	03/22/18 20:00	
Lactic Acid	1.0 U	1.0	1	03/22/18 20:00	
Propionic Acid	1.0 U	1.0	1	03/22/18 20:00	

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Analytical Report

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

Service Request: R1802398
Date Collected: 03/20/18 13:15
Date Received: 03/20/18 17:07

Sample Name: BAT-87-20 (1) 180320
Lab Code: R1802398-007

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	03/22/18 20:35	
Acetic Acid	3.1	1.0	1	03/22/18 20:35	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	03/22/18 20:35	
Lactic Acid	1.0 U	1.0	1	03/22/18 20:35	
Propionic Acid	1.0 U	1.0	1	03/22/18 20:35	

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Analytical Report

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

Service Request: R1802398
Date Collected: 03/20/18 13:45
Date Received: 03/20/18 17:07

Sample Name: BAT-87-22 (1) 180320
Lab Code: R1802398-008

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	03/22/18 21:50	
Acetic Acid	4.0	1.0	1	03/22/18 21:50	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	03/22/18 21:50	
Lactic Acid	1.0 U	1.0	1	03/22/18 21:50	
Propionic Acid	1.0 U	1.0	1	03/22/18 21:50	

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Analytical Report

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

Service Request: R1802398
Date Collected: 03/20/18 14:05
Date Received: 03/20/18 17:07

Sample Name: BAT-DW-11 180320
Lab Code: R1802398-009

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	03/22/18 22:29	
Acetic Acid	19	1.0	1	03/22/18 22:29	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	03/22/18 22:29	
Lactic Acid	1.0 U	1.0	1	03/22/18 22:29	
Propionic Acid	1.0 U	1.0	1	03/22/18 22:29	

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Analytical Report

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

Service Request: R1802398
Date Collected: 03/20/18 14:35
Date Received: 03/20/18 17:07

Sample Name: BAT-87-09 (1) 180320
Lab Code: R1802398-010

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	03/22/18 23:10	
Acetic Acid	1.0 U	1.0	1	03/22/18 23:10	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	03/22/18 23:10	
Lactic Acid	1.0 U	1.0	1	03/22/18 23:10	
Propionic Acid	1.0 U	1.0	1	03/22/18 23:10	

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Analytical Report

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

Service Request: R1802398
Date Collected: 03/20/18 15:05
Date Received: 03/20/18 17:07

Sample Name: BAT-B-14 (1) 180320
Lab Code: R1802398-011

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	03/22/18 23:50	
Acetic Acid	1.0 U	1.0	1	03/22/18 23:50	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	03/22/18 23:50	
Lactic Acid	1.0 U	1.0	1	03/22/18 23:50	
Propionic Acid	1.0 U	1.0	1	03/22/18 23:50	

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Analytical Report

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

Service Request: R1802398
Date Collected: 03/21/18 10:05
Date Received: 03/21/18 14:55

Sample Name: BAT-87-17 (1) 180321
Lab Code: R1802398-012

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	03/23/18 00:23	
Acetic Acid	1.0 U	1.0	1	03/23/18 00:23	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	03/23/18 00:23	
Lactic Acid	1.0 U	1.0	1	03/23/18 00:23	
Propionic Acid	1.0 U	1.0	1	03/23/18 00:23	

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Analytical Report

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

Service Request: R1802398
Date Collected: 03/21/18 10:35
Date Received: 03/21/18 14:55

Sample Name: BAT-89-15 (1) 180321
Lab Code: R1802398-013

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	03/26/18 14:12	
Acetic Acid	95	1.0	1	03/26/18 14:12	
Butanoic Acid (Butyric Acid)	14	2.0	1	03/26/18 14:12	
Lactic Acid	1.0 U	1.0	1	03/26/18 14:12	
Propionic Acid	6.3	1.0	1	03/26/18 14:12	

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Analytical Report

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

Service Request: R1802398
Date Collected: 03/21/18 11:00
Date Received: 03/21/18 14:55

Sample Name: BAT-DW-10 180321
Lab Code: R1802398-014

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	03/26/18 14:50	
Acetic Acid	44	1.0	1	03/26/18 14:50	
Butanoic Acid (Butyric Acid)	2.5	2.0	1	03/26/18 14:50	
Lactic Acid	1.0 U	1.0	1	03/26/18 14:50	
Propionic Acid	14	1.0	1	03/26/18 14:50	

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Analytical Report

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

Service Request: R1802398
Date Collected: 03/21/18 11:35
Date Received: 03/21/18 14:55

Sample Name: BAT-87-08 (1) 180321
Lab Code: R1802398-015

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	03/23/18 02:16	
Acetic Acid	98	1.0	1	03/23/18 02:16	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	03/23/18 02:16	
Lactic Acid	1.0 U	1.0	1	03/23/18 02:16	
Propionic Acid	1.0 U	1.0	1	03/23/18 02:16	

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Analytical Report

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

Service Request: R1802398
Date Collected: 03/21/18 12:15
Date Received: 03/21/18 14:55

Sample Name: BAT-B-10A (1) 180321
Lab Code: R1802398-016

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	03/23/18 03:00	
Acetic Acid	51	1.0	1	03/23/18 03:00	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	03/23/18 03:00	
Lactic Acid	1.0 U	1.0	1	03/23/18 03:00	
Propionic Acid	1.0 U	1.0	1	03/23/18 03:00	

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Analytical Report

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

Service Request: R1802398
Date Collected: 03/21/18 12:30
Date Received: 03/21/18 14:55

Sample Name: BAT-DW-9 180321
Lab Code: R1802398-017

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	03/23/18 04:50	
Acetic Acid	1.0 U	1.0	1	03/23/18 04:50	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	03/23/18 04:50	
Lactic Acid	1.0 U	1.0	1	03/23/18 04:50	
Propionic Acid	1.0 U	1.0	1	03/23/18 04:50	

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Analytical Report

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

Service Request: R1802398
Date Collected: 03/21/18 13:00
Date Received: 03/21/18 14:55

Sample Name: BAT-87-13 (1) 180321
Lab Code: R1802398-018

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	2.5 U	2.5	5	03/26/18 13:35	
Acetic Acid	450	5.0	5	03/26/18 13:35	
Butanoic Acid (Butyric Acid)	30	10	5	03/26/18 13:35	
Lactic Acid	7.9	5.0	5	03/26/18 13:35	
Propionic Acid	45	5.0	5	03/26/18 13:35	



General Chemistry

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

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631236330
Sample Matrix: Water
Sample Name: BAT-87-02 (1) 180320
Lab Code: R1802398-001

Service Request: R1802398
Date Collected: 03/20/18 09:40
Date Received: 03/20/18 17:07

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	621	mg/L	2.0	1	03/26/18 15:29	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	621	mg/L	2.0	1	03/26/18 15:29	
Carbon Dioxide	SM 4500-CO2 D	703	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	69	mg/L	10	10	03/28/18 18:41	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	03/26/18 15:29	
Chloride	9056A	504	mg/L	20	100	03/27/18 12:40	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	3.3	mg/L	1.0	10	03/20/18 18:39	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	03/21/18 16:31	
Sulfate	9056A	234	mg/L	20	100	03/27/18 12:40	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631236330
Sample Matrix: Water
Sample Name: BAT-87-01 (1) 180320
Lab Code: R1802398-002

Service Request: R1802398
Date Collected: 03/20/18 10:10
Date Received: 03/20/18 17:07
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	595	mg/L	2.0	1	03/26/18 15:35	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	595	mg/L	2.0	1	03/26/18 15:35	
Carbon Dioxide	SM 4500-CO2 D	606	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	32.4	mg/L	4.0	4	03/28/18 19:44	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	03/26/18 15:35	
Chloride	9056A	584	mg/L	20	100	03/27/18 13:14	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.10 U	mg/L	0.10	1	03/20/18 18:39	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	03/21/18 16:46	
Sulfate	9056A	176	mg/L	20	100	03/27/18 13:14	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631236330
Sample Matrix: Water
Sample Name: BAT-87-12 (1) 180320
Lab Code: R1802398-003

Service Request: R1802398
Date Collected: 03/20/18 10:40
Date Received: 03/20/18 17:07

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	380	mg/L	2.0	1	03/26/18 15:41	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	380	mg/L	2.0	1	03/26/18 15:41	
Carbon Dioxide	SM 4500-CO2 D	349	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	5.1	mg/L	1.0	1	03/23/18 10:46	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	03/26/18 15:41	
Chloride	9056A	302	mg/L	10	50	03/27/18 13:58	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.10 U	mg/L	0.10	1	03/20/18 18:39	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	03/21/18 17:01	
Sulfate	9056A	800	mg/L	100	500	03/27/18 13:25	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631236330
Sample Matrix: Water
Sample Name: BAT-89-12 (1) 180320
Lab Code: R1802398-004

Service Request: R1802398
Date Collected: 03/20/18 11:10
Date Received: 03/20/18 17:07

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	298	mg/L	2.0	1	03/26/18 15:46	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	298	mg/L	2.0	1	03/26/18 15:46	
Carbon Dioxide	SM 4500-CO2 D	274	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	6.8	mg/L	1.0	1	03/23/18 11:07	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	03/26/18 15:46	
Chloride	9056A	504	mg/L	20	100	03/27/18 14:09	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.14	mg/L	0.10	1	03/20/18 18:39	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	03/21/18 17:16	
Sulfate	9056A	972	mg/L	20	100	03/27/18 14:09	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631236330
Sample Matrix: Water
Sample Name: BAT-DW-12 180320
Lab Code: R1802398-005

Service Request: R1802398
Date Collected: 03/20/18 11:25
Date Received: 03/20/18 17:07

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	122	mg/L	2.0	1	03/26/18 15:52	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	122	mg/L	2.0	1	03/26/18 15:52	
Carbon Dioxide	SM 4500-CO2 D	111	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	2.8	mg/L	1.0	1	03/23/18 12:09	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	03/26/18 15:52	
Chloride	9056A	1100	mg/L	80	400	03/27/18 14:42	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.10 U	mg/L	0.10	1	03/20/18 18:39	H
Nitrate as Nitrogen	9056A	1.1	mg/L	1.0	10	03/21/18 18:01	
Sulfate	9056A	113	mg/L	8.0	40	03/27/18 14:31	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631236330
Sample Matrix: Water
Sample Name: BAT-89-10 (1) 180320
Lab Code: R1802398-006

Service Request: R1802398
Date Collected: 03/20/18 11:55
Date Received: 03/20/18 17:07

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	426	mg/L	2.0	1	03/26/18 15:58	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	426	mg/L	2.0	1	03/26/18 15:58	
Carbon Dioxide	SM 4500-CO2 D	421	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	36.2	mg/L	4.0	4	03/28/18 21:29	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	03/26/18 15:58	
Chloride	9056A	735	mg/L	40	200	03/27/18 14:53	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.10 U	mg/L	0.10	1	03/20/18 18:39	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	03/21/18 18:16	
Sulfate	9056A	737	mg/L	40	200	03/27/18 14:53	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631236330
Sample Matrix: Water
Sample Name: BAT-87-20 (1) 180320
Lab Code: R1802398-007

Service Request: R1802398
Date Collected: 03/20/18 13:15
Date Received: 03/20/18 17:07
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	354	mg/L	2.0	1	03/26/18 16:12	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	354	mg/L	2.0	1	03/26/18 16:12	
Carbon Dioxide	SM 4500-CO2 D	320	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	6.1	mg/L	1.0	1	03/23/18 12:51	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	03/26/18 16:12	
Chloride	9056A	408	mg/L	40	200	03/27/18 15:04	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.15	mg/L	0.10	1	03/20/18 18:39	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	03/21/18 19:01	
Sulfate	9056A	562	mg/L	40	200	03/27/18 15:04	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631236330
Sample Matrix: Water
Sample Name: BAT-87-22 (1) 180320
Lab Code: R1802398-008

Service Request: R1802398
Date Collected: 03/20/18 13:45
Date Received: 03/20/18 17:07
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	392	mg/L	2.0	1	03/26/18 16:18	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	392	mg/L	2.0	1	03/26/18 16:18	
Carbon Dioxide	SM 4500-CO2 D	354	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	6.0	mg/L	1.0	1	03/23/18 13:12	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	03/26/18 16:18	
Chloride	9056A	145	mg/L	8.0	40	03/27/18 15:15	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.10 U	mg/L	0.10	1	03/20/18 18:39	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	03/21/18 19:16	
Sulfate	9056A	981	mg/L	80	400	03/27/18 15:26	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631236330
Sample Matrix: Water
Sample Name: BAT-DW-11 180320
Lab Code: R1802398-009

Service Request: R1802398
Date Collected: 03/20/18 14:05
Date Received: 03/20/18 17:07

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	310	mg/L	2.0	1	03/26/18 16:24	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	310	mg/L	2.0	1	03/26/18 16:24	
Carbon Dioxide	SM 4500-CO2 D	292	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	16.8	mg/L	1.0	1	03/29/18 19:52	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	03/26/18 16:24	
Chloride	9056A	580	mg/L	60	300	03/27/18 15:38	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.10 U	mg/L	0.10	1	03/20/18 18:39	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	03/21/18 19:31	
Sulfate	9056A	731	mg/L	60	300	03/27/18 15:38	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631236330
Sample Matrix: Water
Sample Name: BAT-87-09 (1) 180320
Lab Code: R1802398-010

Service Request: R1802398
Date Collected: 03/20/18 14:35
Date Received: 03/20/18 17:07
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	296	mg/L	2.0	1	03/26/18 16:29	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	296	mg/L	2.0	1	03/26/18 16:29	
Carbon Dioxide	SM 4500-CO2 D	275	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	4.7	mg/L	1.0	1	03/29/18 20:55	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	03/26/18 16:29	
Chloride	9056A	159	mg/L	8.0	40	03/27/18 16:22	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.10 U	mg/L	0.10	1	03/20/18 18:39	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	03/21/18 19:46	
Sulfate	9056A	879	mg/L	80	400	03/27/18 16:33	

ALS Group USA, Corp.
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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631236330
Sample Matrix: Water
Sample Name: BAT-B-14 (1) 180320
Lab Code: R1802398-011

Service Request: R1802398
Date Collected: 03/20/18 15:05
Date Received: 03/20/18 17:07

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	302	mg/L	2.0	1	03/26/18 16:35	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	302	mg/L	2.0	1	03/26/18 16:35	
Carbon Dioxide	SM 4500-CO2 D	282	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	4.4	mg/L	1.0	1	03/29/18 21:16	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	03/26/18 16:35	
Chloride	9056A	165	mg/L	8.0	40	03/27/18 16:44	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.10 U	mg/L	0.10	1	03/20/18 18:39	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	03/21/18 20:01	
Sulfate	9056A	857	mg/L	80	400	03/27/18 16:55	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631236330
Sample Matrix: Water
Sample Name: BAT-87-17 (1) 180321
Lab Code: R1802398-012

Service Request: R1802398
Date Collected: 03/21/18 10:05
Date Received: 03/21/18 14:55
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	298	mg/L	2.0	1	03/26/18 16:41	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	298	mg/L	2.0	1	03/26/18 16:41	
Carbon Dioxide	SM 4500-CO2 D	268	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	3.9	mg/L	1.0	1	03/29/18 21:37	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	03/26/18 16:41	
Chloride	9056A	160	mg/L	8.0	40	03/27/18 18:35	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.15	mg/L	0.10	1	03/21/18 19:43	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	03/22/18 14:54	
Sulfate	9056A	938	mg/L	80	400	03/27/18 18:46	

ALS Group USA, Corp.
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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631236330
Sample Matrix: Water
Sample Name: BAT-89-15 (1) 180321
Lab Code: R1802398-013

Service Request: R1802398
Date Collected: 03/21/18 10:35
Date Received: 03/21/18 14:55
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	644	mg/L	2.0	1	03/26/18 16:48	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	644	mg/L	2.0	1	03/26/18 16:48	
Carbon Dioxide	SM 4500-CO2 D	648	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	59.3	mg/L	4.0	4	03/28/18 23:13	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	03/26/18 16:48	
Chloride	9056A	106	mg/L	8.0	40	03/27/18 18:57	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.13	mg/L	0.10	1	03/21/18 19:43	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	03/22/18 15:09	
Sulfate	9056A	33.5	mg/L	8.0	40	03/27/18 18:57	

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dba ALS Environmental

Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631236330
Sample Matrix: Water
Sample Name: BAT-DW-10 180321
Lab Code: R1802398-014

Service Request: R1802398
Date Collected: 03/21/18 11:00
Date Received: 03/21/18 14:55
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	168	mg/L	2.0	1	03/26/18 16:54	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	168	mg/L	2.0	1	03/26/18 16:54	
Carbon Dioxide	SM 4500-CO2 D	166	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	141	mg/L	20	20	03/29/18 19:31	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	03/26/18 16:54	
Chloride	9056A	41.3	mg/L	2.0	10	03/22/18 15:24	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	1.0 U	mg/L	1.0	10	03/21/18 19:43	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	03/22/18 15:24	
Sulfate	9056A	73.8	mg/L	8.0	40	03/27/18 19:30	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631236330
Sample Matrix: Water
Sample Name: BAT-87-08 (1) 180321
Lab Code: R1802398-015

Service Request: R1802398
Date Collected: 03/21/18 11:35
Date Received: 03/21/18 14:55
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	545	mg/L	2.0	1	03/26/18 17:00	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	545	mg/L	2.0	1	03/26/18 17:00	
Carbon Dioxide	SM 4500-CO2 D	511	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	47.1	mg/L	4.0	4	03/28/18 23:55	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	03/26/18 17:00	
Chloride	9056A	21.4	mg/L	2.0	10	03/22/18 15:39	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.10 U	mg/L	0.10	1	03/21/18 19:43	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	03/22/18 15:39	
Sulfate	9056A	75.3	mg/L	8.0	40	03/27/18 19:41	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631236330
Sample Matrix: Water
Sample Name: BAT-B-10A (1) 180321
Lab Code: R1802398-016

Service Request: R1802398
Date Collected: 03/21/18 12:15
Date Received: 03/21/18 14:55
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	467	mg/L	2.0	1	03/26/18 17:05	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	467	mg/L	2.0	1	03/26/18 17:05	
Carbon Dioxide	SM 4500-CO2 D	424	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	32.6	mg/L	4.0	4	03/29/18 00:16	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	03/26/18 17:05	
Chloride	9056A	95.8	mg/L	8.0	40	03/27/18 19:52	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.10 U	mg/L	0.10	1	03/21/18 19:43	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	03/22/18 15:54	
Sulfate	9056A	102	mg/L	8.0	40	03/27/18 19:52	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631236330
Sample Matrix: Water
Sample Name: BAT-DW-9 180321
Lab Code: R1802398-017

Service Request: R1802398
Date Collected: 03/21/18 12:30
Date Received: 03/21/18 14:55

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	162	mg/L	2.0	1	03/26/18 17:19	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	162	mg/L	2.0	1	03/26/18 17:19	
Carbon Dioxide	SM 4500-CO2 D	144	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	4.8	mg/L	1.0	1	03/29/18 21:58	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	03/26/18 17:19	
Chloride	9056A	7.5	mg/L	2.0	10	03/22/18 16:09	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.10 U	mg/L	0.10	1	03/21/18 19:43	H
Nitrate as Nitrogen	9056A	6.4	mg/L	1.0	10	03/22/18 16:09	
Sulfate	9056A	88.0	mg/L	8.0	40	03/27/18 20:03	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631236330
Sample Matrix: Water
Sample Name: BAT-87-13 (1) 180321
Lab Code: R1802398-018

Service Request: R1802398
Date Collected: 03/21/18 13:00
Date Received: 03/21/18 14:55
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	935	mg/L	2.0	1	03/26/18 17:27	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	935	mg/L	2.0	1	03/26/18 17:27	
Carbon Dioxide	SM 4500-CO2 D	1010	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	247	mg/L	10	10	03/29/18 02:00	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	03/26/18 17:27	
Chloride	9056A	350	mg/L	40	200	03/27/18 20:37	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.10 U	mg/L	0.10	1	03/21/18 19:43	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	03/22/18 16:54	
Sulfate	9056A	579	mg/L	40	200	03/27/18 20:37	



Field Data

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

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631236330
Sample Matrix: Water
Sample Name: BAT-87-02 (1) 180320
Lab Code: R1802398-001

Service Request: R1802398
Date Collected: 03/20/18 09:40
Date Received: 03/20/18 17:07
Basis: NA

Field Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
pH, Field	SM 4500-H+ B	6.90	pH Units	-	1	03/20/18 09:40	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631236330
Sample Matrix: Water
Sample Name: BAT-87-01 (1) 180320
Lab Code: R1802398-002

Service Request: R1802398
Date Collected: 03/20/18 10:10
Date Received: 03/20/18 17:07
Basis: NA

Field Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
pH, Field	SM 4500-H+ B	7.16	pH Units	-	1	03/20/18 10:10	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631236330
Sample Matrix: Water
Sample Name: BAT-87-12 (1) 180320
Lab Code: R1802398-003

Service Request: R1802398
Date Collected: 03/20/18 10:40
Date Received: 03/20/18 17:07
Basis: NA

Field Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
pH, Field	SM 4500-H+ B	7.72	pH Units	-	1	03/20/18 10:40	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631236330
Sample Matrix: Water
Sample Name: BAT-89-12 (1) 180320
Lab Code: R1802398-004

Service Request: R1802398
Date Collected: 03/20/18 11:10
Date Received: 03/20/18 17:07
Basis: NA

Field Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
pH, Field	SM 4500-H+ B	7.70	pH Units	-	1	03/20/18 11:10	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631236330
Sample Matrix: Water
Sample Name: BAT-DW-12 180320
Lab Code: R1802398-005

Service Request: R1802398
Date Collected: 03/20/18 11:25
Date Received: 03/20/18 17:07
Basis: NA

Field Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
pH, Field	SM 4500-H+ B	7.83	pH Units	-	1	03/20/18 11:25	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631236330
Sample Matrix: Water
Sample Name: BAT-89-10 (1) 180320
Lab Code: R1802398-006

Service Request: R1802398
Date Collected: 03/20/18 11:55
Date Received: 03/20/18 17:07
Basis: NA

Field Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
pH, Field	SM 4500-H+ B	7.27	pH Units	-	1	03/20/18 11:55	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631236330
Sample Matrix: Water
Sample Name: BAT-87-20 (1) 180320
Lab Code: R1802398-007

Service Request: R1802398
Date Collected: 03/20/18 13:15
Date Received: 03/20/18 17:07
Basis: NA

Field Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
pH, Field	SM 4500-H+ B	7.92	pH Units	-	1	03/20/18 13:15	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631236330
Sample Matrix: Water
Sample Name: BAT-87-22 (1) 180320
Lab Code: R1802398-008

Service Request: R1802398
Date Collected: 03/20/18 13:45
Date Received: 03/20/18 17:07
Basis: NA

Field Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
pH, Field	SM 4500-H+ B	7.92	pH Units	-	1	03/20/18 13:45	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631236330
Sample Matrix: Water
Sample Name: BAT-DW-11 180320
Lab Code: R1802398-009

Service Request: R1802398
Date Collected: 03/20/18 14:05
Date Received: 03/20/18 17:07
Basis: NA

Field Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
pH, Field	SM 4500-H+ B	7.50	pH Units	-	1	03/20/18 14:05	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631236330
Sample Matrix: Water
Sample Name: BAT-87-09 (1) 180320
Lab Code: R1802398-010

Service Request: R1802398
Date Collected: 03/20/18 14:35
Date Received: 03/20/18 17:07
Basis: NA

Field Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
pH, Field	SM 4500-H+ B	7.60	pH Units	-	1	03/20/18 14:35	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631236330
Sample Matrix: Water
Sample Name: BAT-B-14 (1) 180320
Lab Code: R1802398-011

Service Request: R1802398
Date Collected: 03/20/18 15:05
Date Received: 03/20/18 17:07
Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
pH, Field	SM 4500-H+ B	7.57	pH Units	-	1	03/20/18 15:05	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631236330
Sample Matrix: Water
Sample Name: BAT-87-17 (1) 180321
Lab Code: R1802398-012

Service Request: R1802398
Date Collected: 03/21/18 10:05
Date Received: 03/21/18 14:55
Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
pH, Field	SM 4500-H+ B	7.98	pH Units	-	1	03/21/18 10:05	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631236330
Sample Matrix: Water
Sample Name: BAT-89-15 (1) 180321
Lab Code: R1802398-013

Service Request: R1802398
Date Collected: 03/21/18 10:35
Date Received: 03/21/18 14:55
Basis: NA

Field Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
pH, Field	SM 4500-H+ B	7.20	pH Units	-	1	03/21/18 10:35	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631236330
Sample Matrix: Water
Sample Name: BAT-DW-10 180321
Lab Code: R1802398-014

Service Request: R1802398
Date Collected: 03/21/18 11:00
Date Received: 03/21/18 14:55
Basis: NA

Field Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
pH, Field	SM 4500-H+ B	7.26	pH Units	-	1	03/21/18 11:00	

ALS Group USA, Corp.
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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631236330
Sample Matrix: Water
Sample Name: BAT-87-08 (1) 180321
Lab Code: R1802398-015

Service Request: R1802398
Date Collected: 03/21/18 11:35
Date Received: 03/21/18 14:55
Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
pH, Field	SM 4500-H+ B	7.55	pH Units	-	1	03/21/18 11:35	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631236330
Sample Matrix: Water
Sample Name: BAT-B-10A (1) 180321
Lab Code: R1802398-016

Service Request: R1802398
Date Collected: 03/21/18 12:15
Date Received: 03/21/18 14:55
Basis: NA

Field Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
pH, Field	SM 4500-H+ B	7.85	pH Units	-	1	03/21/18 12:15	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631236330
Sample Matrix: Water
Sample Name: BAT-DW-9 180321
Lab Code: R1802398-017

Service Request: R1802398
Date Collected: 03/21/18 12:30
Date Received: 03/21/18 14:55
Basis: NA

Field Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
pH, Field	SM 4500-H+ B	8.24	pH Units	-	1	03/21/18 12:30	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631236330
Sample Matrix: Water
Sample Name: BAT-87-13 (1) 180321
Lab Code: R1802398-018

Service Request: R1802398
Date Collected: 03/21/18 13:00
Date Received: 03/21/18 14:55
Basis: NA

Field Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
pH, Field	SM 4500-H+ B	6.99	pH Units	-	1	03/21/18 13:00	



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

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ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

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

Service Request: R1802398

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Sample Name	Lab Code	4-Bromofluorobenzene	Dibromofluoromethane	Toluene-d8
		85 - 122	89 - 119	87 - 121
BAT-87-02 (1) 180320	R1802398-001	99	105	102
BAT-87-01 (1) 180320	R1802398-002	96	105	103
BAT-87-12 (1) 180320	R1802398-003	93	101	98
BAT-89-12 (1) 180320	R1802398-004	96	104	101
BAT-DW-12 180320	R1802398-005	95	102	100
BAT-89-10 (1) 180320	R1802398-006	97	94	100
BAT-87-20 (1) 180320	R1802398-007	97	104	102
BAT-87-22 (1) 180320	R1802398-008	93	93	99
BAT-DW-11 180320	R1802398-009	101	109	103
BAT-87-09 (1) 180320	R1802398-010	96	107	102
BAT-B-14 (1) 180320	R1802398-011	99	106	102
BAT-87-17 (1) 180321	R1802398-012	98	108	103
BAT-89-15 (1) 180321	R1802398-013	94	94	99
BAT-DW-10 180321	R1802398-014	91	94	98
BAT-87-08 (1) 180321	R1802398-015	96	104	101
BAT-B-10A (1) 180321	R1802398-016	94	102	99
BAT-DW-9 180321	R1802398-017	93	94	98
BAT-87-13 (1) 180321	R1802398-018	95	100	99
Trip Blank 1	R1802398-019	93	91	98
Trip Blank 2	R1802398-020	93	92	98
Lab Control Sample	RQ1802599-03	93	96	100
Method Blank	RQ1802599-04	93	92	98
Lab Control Sample	RQ1802793-03	103	104	101
Method Blank	RQ1802793-04	96	99	99
BAT-DW-12 180320 MS	RQ1802793-05	99	106	100
BAT-DW-12 180320 DMS	RQ1802793-06	98	104	100
Lab Control Sample	RQ1802794-03	101	105	100
Method Blank	RQ1802794-04	95	101	100

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QA/QC Report

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

Service Request: R1802398
Date Collected: 03/20/18
Date Received: 03/20/18
Date Analyzed: 03/26/18

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: BAT-DW-12 180320
Lab Code: R1802398-005
Analysis Method: 8260C

Units: ug/L
Basis: NA

Analyte Name	Matrix Spike RQ1802793-05				Duplicate Matrix Spike RQ1802793-06				RPD	RPD Limit
	Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits		
Chloromethane	1.0 U	38.9	50.0	78	37.7	50.0	75	55-160	3	30
Vinyl Chloride	0.45 J	47.4	50.0	94	44.6	50.0	88	60-157	6	30
Chloroethane	1.0 U	36.2	50.0	72	39.1	50.0	78	70-140	8	30
Bromomethane	1.0 U	10.2	50.0	20	11.9	50.0	24	10-162	15	30
1,1-Dichloroethene	1.0 U	45.8	50.0	92	44.0	50.0	88	74-139	4	30
Acetone	5.0 U	50.1	50.0	100	51.5	50.0	103	29-151	3	30
Carbon Disulfide	1.0 U	46.9	50.0	94	45.1	50.0	90	34-162	4	30
Methylene Chloride	1.0 U	45.1	50.0	90	43.7	50.0	87	75-121	3	30
trans-1,2-Dichloroethene	1.0 U	44.5	50.0	89	43.3	50.0	87	77-125	3	30
1,1-Dichloroethane	0.76 J	50.9	50.0	100	49.6	50.0	98	74-132	3	30
cis-1,2-Dichloroethene	4.2	47.1	50.0	86	46.3	50.0	84	72-133	2	30
2-Butanone (MEK)	5.0 U	52.0	50.0	104	53.1	50.0	106	46-141	2	30
Chloroform	1.0 U	47.0	50.0	94	46.5	50.0	93	75-130	1	30
1,1,1-Trichloroethane	1.0 U	51.3	50.0	103	49.7	50.0	99	74-127	3	30
Carbon Tetrachloride	1.0 U	57.6	50.0	115	56.1	50.0	112	65-135	3	30
Benzene	1.0 U	47.7	50.0	95	45.9	50.0	92	76-129	4	30
1,2-Dichloroethane	1.0 U	54.7	50.0	109	53.6	50.0	107	68-130	2	30
Trichloroethene	1.3	45.0	50.0	87	43.3	50.0	84	62-142	4	30
1,2-Dichloropropane	1.0 U	49.0	50.0	98	47.4	50.0	95	79-124	3	30
Bromodichloromethane	1.0 U	48.0	50.0	96	48.3	50.0	97	76-127	<1	30
cis-1,3-Dichloropropene	1.0 U	50.7	50.0	101	51.1	50.0	102	52-134	<1	30
4-Methyl-2-pentanone (MIBK)	5.0 U	59.1	50.0	118	60.0	50.0	120	60-141	2	30
Toluene	1.0 U	47.0	50.0	94	45.3	50.0	91	79-125	4	30
trans-1,3-Dichloropropene	1.0 U	53.9	50.0	108	54.9	50.0	110	50-142	2	30
1,1,2-Trichloroethane	1.0 U	45.9	50.0	92	46.2	50.0	92	79-119	<1	30
Tetrachloroethene	1.0 U	46.5	50.0	93	45.4	50.0	91	67-137	3	30
2-Hexanone	5.0 U	54.5	50.0	109	57.3	50.0	115	56-132	5	30
Dibromochloromethane	1.0 U	51.2	50.0	102	50.8	50.0	102	72-128	<1	30
Chlorobenzene	1.0 U	45.0	50.0	90	44.0	50.0	88	76-125	2	30
Ethylbenzene	1.0 U	47.9	50.0	96	45.4	50.0	91	72-134	5	30
m,p-Xylenes	2.0 U	96.1	100	96	92.2	100	92	68-138	4	30
o-Xylene	1.0 U	47.4	50.0	95	46.1	50.0	92	68-134	3	30
Styrene	1.0 U	48.1	50.0	96	46.1	50.0	92	34-156	4	30
Bromoform	1.0 U	51.8	50.0	104	51.7	50.0	103	58-133	<1	30
1,1,2,2-Tetrachloroethane	1.0 U	48.6	50.0	97	48.2	50.0	96	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.

ALS Group USA, Corp.
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Analytical Report

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

Service Request: R1802398
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1802599-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.21	1	03/22/18 22:16	
Vinyl Chloride	1.0 U	1.0	0.32	1	03/22/18 22:16	
Chloroethane	1.0 U	1.0	0.24	1	03/22/18 22:16	
Bromomethane	1.0 U	1.0	0.29	1	03/22/18 22:16	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	03/22/18 22:16	
Acetone	5.0 U	5.0	1.3	1	03/22/18 22:16	
Carbon Disulfide	0.25 J	1.0	0.22	1	03/22/18 22:16	
Methylene Chloride	1.0 U	1.0	0.60	1	03/22/18 22:16	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	03/22/18 22:16	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	03/22/18 22:16	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	03/22/18 22:16	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	03/22/18 22:16	
Chloroform	1.0 U	1.0	0.25	1	03/22/18 22:16	
1,1,1-Trichloroethane	1.0 U	1.0	0.36	1	03/22/18 22:16	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	03/22/18 22:16	
Benzene	1.0 U	1.0	0.20	1	03/22/18 22:16	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	03/22/18 22:16	
Trichloroethene	1.0 U	1.0	0.22	1	03/22/18 22:16	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	03/22/18 22:16	
Bromodichloromethane	1.0 U	1.0	0.32	1	03/22/18 22:16	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	03/22/18 22:16	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	03/22/18 22:16	
Toluene	1.0 U	1.0	0.20	1	03/22/18 22:16	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	03/22/18 22:16	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	03/22/18 22:16	
Tetrachloroethene	1.0 U	1.0	0.30	1	03/22/18 22:16	
2-Hexanone	5.0 U	5.0	1.7	1	03/22/18 22:16	
Dibromochloromethane	1.0 U	1.0	0.31	1	03/22/18 22:16	
Chlorobenzene	1.0 U	1.0	0.29	1	03/22/18 22:16	
Ethylbenzene	1.0 U	1.0	0.20	1	03/22/18 22:16	
m,p-Xylenes	2.0 U	2.0	0.33	1	03/22/18 22:16	
o-Xylene	1.0 U	1.0	0.20	1	03/22/18 22:16	
Styrene	1.0 U	1.0	0.20	1	03/22/18 22:16	
Bromoform	1.0 U	1.0	0.42	1	03/22/18 22:16	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	03/22/18 22:16	

ALS Group USA, Corp.
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Analytical Report

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

Service Request: R1802398
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1802599-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	03/22/18 22:16	
Toluene-d8	98	87 - 121	03/22/18 22:16	
Dibromofluoromethane	92	89 - 119	03/22/18 22:16	

ALS Group USA, Corp.
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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631236330
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ1802793-04

Service Request: R1802398
Date Collected: NA
Date Received: NA
Units: ug/L
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	03/26/18 13:09	
Vinyl Chloride	1.0 U	1.0	0.32	1	03/26/18 13:09	
Chloroethane	1.0 U	1.0	0.24	1	03/26/18 13:09	
Bromomethane	1.0 U	1.0	0.29	1	03/26/18 13:09	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	03/26/18 13:09	
Acetone	5.0 U	5.0	1.3	1	03/26/18 13:09	
Carbon Disulfide	1.0 U	1.0	0.22	1	03/26/18 13:09	
Methylene Chloride	1.0 U	1.0	0.60	1	03/26/18 13:09	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	03/26/18 13:09	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	03/26/18 13:09	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	03/26/18 13:09	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	03/26/18 13:09	
Chloroform	1.0 U	1.0	0.25	1	03/26/18 13:09	
1,1,1-Trichloroethane	1.0 U	1.0	0.36	1	03/26/18 13:09	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	03/26/18 13:09	
Benzene	1.0 U	1.0	0.20	1	03/26/18 13:09	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	03/26/18 13:09	
Trichloroethene	1.0 U	1.0	0.22	1	03/26/18 13:09	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	03/26/18 13:09	
Bromodichloromethane	1.0 U	1.0	0.32	1	03/26/18 13:09	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	03/26/18 13:09	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	03/26/18 13:09	
Toluene	1.0 U	1.0	0.20	1	03/26/18 13:09	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	03/26/18 13:09	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	03/26/18 13:09	
Tetrachloroethene	1.0 U	1.0	0.30	1	03/26/18 13:09	
2-Hexanone	5.0 U	5.0	1.7	1	03/26/18 13:09	
Dibromochloromethane	1.0 U	1.0	0.31	1	03/26/18 13:09	
Chlorobenzene	1.0 U	1.0	0.29	1	03/26/18 13:09	
Ethylbenzene	1.0 U	1.0	0.20	1	03/26/18 13:09	
m,p-Xylenes	2.0 U	2.0	0.33	1	03/26/18 13:09	
o-Xylene	1.0 U	1.0	0.20	1	03/26/18 13:09	
Styrene	1.0 U	1.0	0.20	1	03/26/18 13:09	
Bromoform	1.0 U	1.0	0.42	1	03/26/18 13:09	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	03/26/18 13:09	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: R1802398
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1802793-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	96	85 - 122	03/26/18 13:09	
Toluene-d8	99	87 - 121	03/26/18 13:09	
Dibromofluoromethane	99	89 - 119	03/26/18 13:09	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: R1802398
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1802794-04

Units: ug/L
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	03/27/18 11:26	
Vinyl Chloride	1.0 U	1.0	0.32	1	03/27/18 11:26	
Chloroethane	1.0 U	1.0	0.24	1	03/27/18 11:26	
Bromomethane	1.0 U	1.0	0.29	1	03/27/18 11:26	
1,1-Dichloroethene	1.0 U	1.0	0.57	1	03/27/18 11:26	
Acetone	5.0 U	5.0	1.3	1	03/27/18 11:26	
Carbon Disulfide	1.0 U	1.0	0.22	1	03/27/18 11:26	
Methylene Chloride	1.0 U	1.0	0.60	1	03/27/18 11:26	
trans-1,2-Dichloroethene	1.0 U	1.0	0.33	1	03/27/18 11:26	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	03/27/18 11:26	
cis-1,2-Dichloroethene	1.0 U	1.0	0.30	1	03/27/18 11:26	
2-Butanone (MEK)	5.0 U	5.0	0.81	1	03/27/18 11:26	
Chloroform	1.0 U	1.0	0.25	1	03/27/18 11:26	
1,1,1-Trichloroethane	1.0 U	1.0	0.36	1	03/27/18 11:26	
Carbon Tetrachloride	1.0 U	1.0	0.45	1	03/27/18 11:26	
Benzene	1.0 U	1.0	0.20	1	03/27/18 11:26	
1,2-Dichloroethane	1.0 U	1.0	0.36	1	03/27/18 11:26	
Trichloroethene	1.0 U	1.0	0.22	1	03/27/18 11:26	
1,2-Dichloropropane	1.0 U	1.0	0.20	1	03/27/18 11:26	
Bromodichloromethane	1.0 U	1.0	0.32	1	03/27/18 11:26	
cis-1,3-Dichloropropene	1.0 U	1.0	0.24	1	03/27/18 11:26	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.67	1	03/27/18 11:26	
Toluene	1.0 U	1.0	0.20	1	03/27/18 11:26	
trans-1,3-Dichloropropene	1.0 U	1.0	0.20	1	03/27/18 11:26	
1,1,2-Trichloroethane	1.0 U	1.0	0.34	1	03/27/18 11:26	
Tetrachloroethene	1.0 U	1.0	0.30	1	03/27/18 11:26	
2-Hexanone	5.0 U	5.0	1.7	1	03/27/18 11:26	
Dibromochloromethane	1.0 U	1.0	0.31	1	03/27/18 11:26	
Chlorobenzene	1.0 U	1.0	0.29	1	03/27/18 11:26	
Ethylbenzene	1.0 U	1.0	0.20	1	03/27/18 11:26	
m,p-Xylenes	2.0 U	2.0	0.33	1	03/27/18 11:26	
o-Xylene	1.0 U	1.0	0.20	1	03/27/18 11:26	
Styrene	1.0 U	1.0	0.20	1	03/27/18 11:26	
Bromoform	1.0 U	1.0	0.42	1	03/27/18 11:26	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.25	1	03/27/18 11:26	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631236330
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ1802794-04

Service Request: R1802398
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	03/27/18 11:26	
Toluene-d8	100	87 - 121	03/27/18 11:26	
Dibromofluoromethane	101	89 - 119	03/27/18 11:26	

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QA/QC Report

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

Service Request: R1802398
Date Analyzed: 03/22/18

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1802599-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chloromethane	8260C	19.4	20.0	97	69-145
Vinyl Chloride	8260C	22.2	20.0	111	69-133
Chloroethane	8260C	19.0	20.0	95	70-127
Bromomethane	8260C	13.1	20.0	66	42-166
1,1-Dichloroethene	8260C	21.8	20.0	109	74-135
Acetone	8260C	29.0	20.0	145	40-161
Carbon Disulfide	8260C	21.3	20.0	106	65-127
Methylene Chloride	8260C	24.3	20.0	121	73-122
trans-1,2-Dichloroethene	8260C	22.6	20.0	113	80-120
1,1-Dichloroethane	8260C	25.5	20.0	128 *	78-117
cis-1,2-Dichloroethene	8260C	22.8	20.0	114	80-121
2-Butanone (MEK)	8260C	28.3	20.0	141 *	61-137
Chloroform	8260C	21.4	20.0	107	76-120
1,1,1-Trichloroethane	8260C	20.0	20.0	100	74-120
Carbon Tetrachloride	8260C	19.2	20.0	96	68-125
Benzene	8260C	24.7	20.0	123 *	76-118
1,2-Dichloroethane	8260C	23.0	20.0	115	71-127
Trichloroethene	8260C	22.1	20.0	111	78-123
1,2-Dichloropropane	8260C	24.1	20.0	121 *	80-119
Bromodichloromethane	8260C	20.0	20.0	100	78-126
cis-1,3-Dichloropropene	8260C	22.4	20.0	112	74-126
4-Methyl-2-pentanone (MIBK)	8260C	26.7	20.0	134 *	66-124
Toluene	8260C	22.8	20.0	114	77-120
trans-1,3-Dichloropropene	8260C	21.2	20.0	106	67-135
1,1,2-Trichloroethane	8260C	21.8	20.0	109	82-118
Tetrachloroethene	8260C	21.5	20.0	107	78-124
2-Hexanone	8260C	25.6	20.0	128 *	63-124
Dibromochloromethane	8260C	19.9	20.0	100	77-128
Chlorobenzene	8260C	22.6	20.0	113	80-121
Ethylbenzene	8260C	22.1	20.0	111	76-120
m,p-Xylenes	8260C	43.8	40.0	110	78-123
o-Xylene	8260C	21.8	20.0	109	80-120
Styrene	8260C	21.6	20.0	108	80-124

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QA/QC Report

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

Service Request: R1802398
Date Analyzed: 03/22/18

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1802599-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Bromoform	8260C	19.5	20.0	98	71-136
1,1,2,2-Tetrachloroethane	8260C	25.4	20.0	127 *	78-122

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QA/QC Report

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

Service Request: R1802398
Date Analyzed: 03/26/18

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1802793-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chloromethane	8260C	19.3	20.0	96	69-145
Vinyl Chloride	8260C	19.1	20.0	95	69-133
Chloroethane	8260C	14.4	20.0	72	70-127
Bromomethane	8260C	15.9	20.0	79	42-166
1,1-Dichloroethene	8260C	18.2	20.0	91	74-135
Acetone	8260C	23.3	20.0	116	40-161
Carbon Disulfide	8260C	17.3	20.0	87	65-127
Methylene Chloride	8260C	17.9	20.0	89	73-122
trans-1,2-Dichloroethene	8260C	18.1	20.0	91	80-120
1,1-Dichloroethane	8260C	19.3	20.0	96	78-117
cis-1,2-Dichloroethene	8260C	17.7	20.0	88	80-121
2-Butanone (MEK)	8260C	21.1	20.0	105	61-137
Chloroform	8260C	18.6	20.0	93	76-120
1,1,1-Trichloroethane	8260C	20.2	20.0	101	74-120
Carbon Tetrachloride	8260C	23.2	20.0	116	68-125
Benzene	8260C	19.1	20.0	96	76-118
1,2-Dichloroethane	8260C	21.6	20.0	108	71-127
Trichloroethene	8260C	18.6	20.0	93	78-123
1,2-Dichloropropane	8260C	19.3	20.0	97	80-119
Bromodichloromethane	8260C	19.7	20.0	99	78-126
cis-1,3-Dichloropropene	8260C	20.1	20.0	101	74-126
4-Methyl-2-pentanone (MIBK)	8260C	21.4	20.0	107	66-124
Toluene	8260C	18.7	20.0	94	77-120
trans-1,3-Dichloropropene	8260C	23.4	20.0	117	67-135
1,1,2-Trichloroethane	8260C	18.3	20.0	92	82-118
Tetrachloroethene	8260C	20.0	20.0	100	78-124
2-Hexanone	8260C	22.0	20.0	110	63-124
Dibromochloromethane	8260C	20.4	20.0	102	77-128
Chlorobenzene	8260C	17.9	20.0	90	80-121
Ethylbenzene	8260C	18.8	20.0	94	76-120
m,p-Xylenes	8260C	37.9	40.0	95	78-123
o-Xylene	8260C	19.0	20.0	95	80-120
Styrene	8260C	18.9	20.0	95	80-124

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QA/QC Report

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

Service Request: R1802398
Date Analyzed: 03/26/18

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1802793-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Bromoform	8260C	22.6	20.0	113	71-136
1,1,2,2-Tetrachloroethane	8260C	17.9	20.0	90	78-122

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QA/QC Report

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

Service Request: R1802398
Date Analyzed: 03/27/18

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1802794-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chloromethane	8260C	20.5	20.0	103	69-145
Vinyl Chloride	8260C	20.4	20.0	102	69-133
Chloroethane	8260C	15.4	20.0	77	70-127
Bromomethane	8260C	14.7	20.0	74	42-166
1,1-Dichloroethene	8260C	19.5	20.0	98	74-135
Acetone	8260C	26.5	20.0	132	40-161
Carbon Disulfide	8260C	18.2	20.0	91	65-127
Methylene Chloride	8260C	19.2	20.0	96	73-122
trans-1,2-Dichloroethene	8260C	18.2	20.0	91	80-120
1,1-Dichloroethane	8260C	20.3	20.0	101	78-117
cis-1,2-Dichloroethene	8260C	18.3	20.0	92	80-121
2-Butanone (MEK)	8260C	21.9	20.0	110	61-137
Chloroform	8260C	19.6	20.0	98	76-120
1,1,1-Trichloroethane	8260C	20.8	20.0	104	74-120
Carbon Tetrachloride	8260C	22.8	20.0	114	68-125
Benzene	8260C	19.4	20.0	97	76-118
1,2-Dichloroethane	8260C	22.5	20.0	112	71-127
Trichloroethene	8260C	19.0	20.0	95	78-123
1,2-Dichloropropane	8260C	19.9	20.0	99	80-119
Bromodichloromethane	8260C	20.0	20.0	100	78-126
cis-1,3-Dichloropropene	8260C	20.7	20.0	104	74-126
4-Methyl-2-pentanone (MIBK)	8260C	21.6	20.0	108	66-124
Toluene	8260C	19.2	20.0	96	77-120
trans-1,3-Dichloropropene	8260C	23.3	20.0	116	67-135
1,1,2-Trichloroethane	8260C	18.3	20.0	92	82-118
Tetrachloroethene	8260C	20.1	20.0	100	78-124
2-Hexanone	8260C	21.9	20.0	110	63-124
Dibromochloromethane	8260C	20.0	20.0	100	77-128
Chlorobenzene	8260C	18.5	20.0	92	80-121
Ethylbenzene	8260C	20.0	20.0	100	76-120
m,p-Xylenes	8260C	38.4	40.0	96	78-123
o-Xylene	8260C	19.9	20.0	100	80-120
Styrene	8260C	19.2	20.0	96	80-124

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QA/QC Report

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

Service Request: R1802398
Date Analyzed: 03/27/18

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1802794-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Bromoform	8260C	21.4	20.0	107	71-136
1,1,2,2-Tetrachloroethane	8260C	18.8	20.0	94	78-122



Volatile Organic Compounds by GC

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Analytical Report

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

Service Request: R1802398
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1802831-01

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	1.0 U	1.0	1	03/28/18 12:15	
Ethene	1.0 U	1.0	1	03/28/18 12:15	
Methane	1.1 U	1.1	1	03/28/18 12:15	

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Analytical Report

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

Service Request: R1802398
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1802834-01

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	1.0 U	1.0	1	03/29/18 08:52	
Ethene	1.0 U	1.0	1	03/29/18 08:52	
Methane	1.1 U	1.1	1	03/29/18 08:52	

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QA/QC Report

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

Service Request: R1802398
Date Analyzed: 03/28/18

Duplicate Lab Control Sample Summary
Dissolved Gases by GC/FID

Units:ug/L
Basis:NA

Analyte Name	Lab Control Sample				Duplicate Lab Control Sample					
	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Ethane	RSK 175	27.5	26.0	105	27.4	26.0	105	75-118	<1	20
Ethene	RSK 175	27.7	24.3	114	28.2	24.3	116	73-129	2	20
Methane	RSK 175	28.7	26.2	109	28.4	26.2	108	65-126	1	20

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QA/QC Report

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

Service Request: R1802398
Date Analyzed: 03/29/18

Duplicate Lab Control Sample Summary
Dissolved Gases by GC/FID

Units:ug/L
Basis:NA

Lab Control Sample
RQ1802834-02

Duplicate Lab Control Sample
RQ1802834-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Ethane	RSK 175	29.2	26.0	112	28.9	26.0	111	75-118	<1	20
Ethene	RSK 175	29.6	24.3	122	29.6	24.3	122	73-129	<1	20
Methane	RSK 175	30.4	26.2	116	29.8	26.2	113	65-126	2	20



Semivolatile Organic Compounds by GC

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

Service Request: R1802398
Date Collected: 03/21/18
Date Received: 03/21/18
Date Analyzed: 03/26/18

Duplicate Matrix Spike Summary

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Sample Name: BAT-87-13 (1) 180321
Lab Code: R1802398-018
Analysis Method: Organic Acids

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike RQ1802693-04			Duplicate Matrix Spike RQ1802693-05			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Pyruvic Acid	2.5 U	8.55	10.2	84	8.55	10.2	84	45-144	<1	30
Acetic Acid	450	568	100	113 #	577	100	123 #	30-147	2	30
Butanoic Acid (Butyric Acid)	30	129	100	99	132	100	102	55-146	2	30
Lactic Acid	7.9	100	100	92	100	100	92	40-158	<1	30
Propionic Acid	45	150	100	106	149	100	104	57-135	<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.

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Analytical Report

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

Service Request: R1802398
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1802628-01

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	03/22/18 14:53	
Acetic Acid	1.0 U	1.0	1	03/22/18 14:53	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	03/22/18 14:53	
Lactic Acid	1.0 U	1.0	1	03/22/18 14:53	
Propionic Acid	1.0 U	1.0	1	03/22/18 14:53	

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Analytical Report

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

Service Request: R1802398
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1802693-01

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	03/26/18 11:41	
Acetic Acid	1.0 U	1.0	1	03/26/18 11:41	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	03/26/18 11:41	
Lactic Acid	1.0 U	1.0	1	03/26/18 11:41	
Propionic Acid	1.0 U	1.0	1	03/26/18 11:41	

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QA/QC Report

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

Service Request: R1802398
Date Analyzed: 03/22/18

Duplicate Lab Control Sample Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Units:mg/L
Basis:NA

Analyte Name	Analytical Method	Lab Control Sample RQ1802628-02			Duplicate Lab Control Sample RQ1802628-03			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Pyruvic Acid	Organic Acids	1.92	2.04	94	1.90	2.04	93	70-130	1	30
Acetic Acid	Organic Acids	19.9	20.0	99	19.8	20.0	99	70-130	<1	30
Butanoic Acid (Butyric Acid)	Organic Acids	20.6	20.1	103	19.1	20.1	95	70-130	8	30
Lactic Acid	Organic Acids	18.6	20.0	93	18.6	20.0	93	70-130	<1	30
Propionic Acid	Organic Acids	30.9	20.0	154 *	30.9	20.0	154 *	70-130	<1	30

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QA/QC Report

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

Service Request: R1802398
Date Analyzed: 03/26/18

Duplicate Lab Control Sample Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Units:mg/L
Basis:NA

Analyte Name	Analytical Method	Lab Control Sample			Duplicate Lab Control Sample			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Pyruvic Acid	Organic Acids	1.76	2.04	86	1.68	2.04	82	70-130	5	30
Acetic Acid	Organic Acids	20.3	20.0	101	17.7	20.0	88	70-130	14	30
Butanoic Acid (Butyric Acid)	Organic Acids	20.7	20.1	103	20.1	20.1	100	70-130	3	30
Lactic Acid	Organic Acids	19.3	20.0	97	17.4	20.0	87	70-130	10	30
Propionic Acid	Organic Acids	21.0	20.0	105	19.8	20.0	99	70-130	6	30



General Chemistry

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631236330
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R1802398-MB1

Service Request: R1802398
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	03/26/18 15:01	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	03/26/18 15:01	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0 U	mg/L	1.0	1	03/23/18 09:43	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	03/26/18 15:01	
Chloride	9056A	0.20 U	mg/L	0.20	1	03/22/18 14:24	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.10 U	mg/L	0.10	1	03/20/18 18:39	
Nitrate as Nitrogen	9056A	0.10 U	mg/L	0.10	1	03/21/18 15:04	
Sulfate	9056A	0.20 U	mg/L	0.20	1	03/27/18 11:34	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631236330
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R1802398-MB2

Service Request: R1802398
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0 U	mg/L	1.0	1	03/28/18 16:57	
Chloride	9056A	0.20 U	mg/L	0.20	1	03/27/18 11:34	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.10 U	mg/L	0.10	1	03/21/18 19:43	
Nitrate as Nitrogen	9056A	0.10 U	mg/L	0.10	1	03/22/18 14:24	
Sulfate	9056A	0.20 U	mg/L	0.20	1	03/27/18 16:00	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631236330
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R1802398-MB3

Service Request: R1802398
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0 U	mg/L	1.0	1	03/29/18 01:19	
Chloride	9056A	0.20 U	mg/L	0.20	1	03/27/18 16:00	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injection/631236330
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R1802398-MB4

Service Request: R1802398
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

<u>Analyte Name</u>	<u>Analysis Method</u>	<u>Result</u>	<u>Units</u>	<u>MRL</u>	<u>Dil.</u>	<u>Date Analyzed</u>	<u>Q</u>
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0 U	mg/L	1.0	1	03/29/18 18:49	

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QA/QC Report

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

Service Request:R1802398
Date Collected:03/20/18
Date Received:03/20/18
Date Analyzed:03/27/18 - 03/28/18

**Duplicate Matrix Spike Summary
General Chemistry Parameters**

Sample Name: BAT-87-02 (1) 180320
Lab Code: R1802398-001

Units:mg/L
Basis:NA

Matrix Spike
R1802398-001MS

Duplicate Matrix Spike
R1802398-001DMS

Analyte Name	Method	Sample Result	Spike Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Chloride	9056A	504	643	200	70 *	652	200	74 *	80-120	1	15
Sulfate	9056A	234	425	200	96	419	200	93	80-120	1	15
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	69	173	100	104	177	100	108	48-135	2	20

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.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

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

Service Request: R1802398
Date Collected: 03/20/18
Date Received: 03/20/18
Date Analyzed: 03/28/18

Duplicate Matrix Spike Summary
Carbon, Total Organic (TOC)

Sample Name: BAT-87-01 (1) 180320
Lab Code: R1802398-002
Analysis Method: SM 5310 C-2000(2011)

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike R1802398-002MS			Duplicate Matrix Spike R1802398-002DMS			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Carbon, Total Organic (TOC)	32.4	72.8	40.0	101	73.3	40.0	102	48-135	<1	20

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.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

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

Service Request:R1802398
Date Collected:03/20/18
Date Received:03/20/18
Date Analyzed:03/21/18 - 03/23/18

**Duplicate Matrix Spike Summary
General Chemistry Parameters**

Sample Name: BAT-89-12 (1) 180320
Lab Code: R1802398-004

Units:mg/L
Basis:NA

Matrix Spike
R1802398-004MS

Duplicate Matrix Spike
R1802398-004DMS

Analyte Name	Method	Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	6.8	15.6	10.0	88	15.2	10.0	84	48-135	2	20
Nitrate as Nitrogen	9056A	1.0 U	9.6	10.0	96	9.2	10.0	92	80-120	4	15

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

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

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

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

Service Request: R1802398
Date Collected: 03/20/18
Date Received: 03/20/18
Date Analyzed: 03/20/18

Duplicate Matrix Spike Summary
Iron, Divalent (Ferrous Iron)

Sample Name: BAT-87-20 (1) 180320
Lab Code: R1802398-007
Analysis Method: SM 3500-Fe B.4.c

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike R1802398-007MS			Duplicate Matrix Spike R1802398-007DMS			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Iron, Divalent (Ferrous Iron)	0.15	0.52	0.40	92	0.53	0.40	95	26-169	2	20

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

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

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

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

Service Request: R1802398
Date Collected: 03/20/18
Date Received: 03/20/18
Date Analyzed: 03/29/18

Duplicate Matrix Spike Summary
Carbon, Total Organic (TOC)

Sample Name: BAT-DW-11 180320
Lab Code: R1802398-009
Analysis Method: SM 5310 C-2000(2011)

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike R1802398-009MS			Duplicate Matrix Spike R1802398-009DMS			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Carbon, Total Organic (TOC)	16.8	26.3	10.0	95	26.5	10.0	97	48-135	<1	20

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.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

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

Service Request: R1802398
Date Collected: 03/20/18
Date Received: 03/20/18
Date Analyzed: 03/20/18

Duplicate Matrix Spike Summary
Iron, Divalent (Ferrous Iron)

Sample Name: BAT-B-14 (1) 180320
Lab Code: R1802398-011
Analysis Method: SM 3500-Fe B.4.c

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike R1802398-011MS			Duplicate Matrix Spike R1802398-011DMS			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Iron, Divalent (Ferrous Iron)	0.10 U	0.47	0.40	117	0.50	0.40	125	26-169	6	20

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.

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dba ALS Environmental

QA/QC Report

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

Service Request: R1802398
Date Collected: 03/21/18
Date Received: 03/21/18
Date Analyzed: 03/21/18

Duplicate Matrix Spike Summary
Iron, Divalent (Ferrous Iron)

Sample Name: BAT-87-17 (1) 180321
Lab Code: R1802398-012
Analysis Method: SM 3500-Fe B.4.c

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike R1802398-012MS			Duplicate Matrix Spike R1802398-012DMS			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Iron, Divalent (Ferrous Iron)	0.15	0.56	0.40	102	0.55	0.40	100	26-169	2	20

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.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

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

Service Request:R1802398
Date Collected:03/21/18
Date Received:03/21/18
Date Analyzed:3/27/18

**Duplicate Matrix Spike Summary
General Chemistry Parameters**

Sample Name: BAT-89-15 (1) 180321
Lab Code: R1802398-013

Units:mg/L
Basis:NA

Matrix Spike
R1802398-013MS

Duplicate Matrix Spike
R1802398-013DMS

Analyte Name	Method	Sample		Spike		Duplicate Matrix Spike		% Rec	Limits	RPD	RPD Limit
		Result	Result	Amount	% Rec	Result	Amount				
Chloride	9056A	106	173	80.0	84	179	80.0	91	80-120	3	15
Sulfate	9056A	33.5	103	80.0	87	105	80.0	89	80-120	1	15

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.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

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

Service Request:R1802398
Date Collected:03/21/18
Date Received:03/21/18
Date Analyzed:3/22/18

Duplicate Matrix Spike Summary
General Chemistry Parameters

Sample Name: BAT-DW-9 180321
Lab Code: R1802398-017

Units:mg/L
Basis:NA

Matrix Spike
R1802398-017MS

Duplicate Matrix Spike
R1802398-017DMS

Analyte Name	Method	Sample Result	Result	Spike		Duplicate Matrix Spike		% Rec Limits	RPD	RPD Limit	
				Amount	% Rec	Amount	% Rec				
Chloride	9056A	7.5	30.5	20.0	115	30.1	20.0	113	80-120	1	15
Nitrate as Nitrogen	9056A	6.4	17.6	10.0	113	17.5	10.0	112	80-120	<1	15

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.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

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

Service Request: R1802398
Date Analyzed: 03/20/18 - 03/27/18

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1802398-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	20.8	20.0	104	81-112
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	9.5	10.0	95	81-118
Chloride	9056A	2.09	2.00	105	80-120
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.43	0.40	107	67-129
Nitrate as Nitrogen	9056A	0.98	1.00	98	80-120
Sulfate	9056A	1.80	2.00	90	80-120

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

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

Service Request: R1802398
Date Analyzed: 03/21/18 - 03/28/18

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1802398-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	9.94	10.0	99	81-118
Chloride	9056A	1.96	2.00	98	80-120
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.42	0.40	105	67-129
Nitrate as Nitrogen	9056A	1.09	1.00	109	80-120
Sulfate	9056A	1.96	2.00	98	80-120

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QA/QC Report

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

Service Request: R1802398
Date Analyzed: 03/27/18 - 03/29/18

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1802398-LCS3

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	11.2	10.0	112	81-118
Chloride	9056A	1.95	2.00	98	80-120

ALS Group USA, Corp.

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QA/QC Report

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

Service Request: R1802398

Date Analyzed: 03/29/18

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L

Basis:NA

Lab Control Sample

R1802398-LCS4

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	10.9	10.0	109	81-118



July 03, 2018

Service Request No:R1805705

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

Laboratory Results for: Textron Injections

Dear Ms.Byers,

Enclosed are the results of the sample(s) submitted to our laboratory June 19, 2018
For your reference, these analyses have been assigned our service request number **R1805705**.

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

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



Client: APTIM, Inc
Project: Textron Injections
Sample Matrix: Water

Service Request: R1805705
Date Received: 06/19/2018 - 06/20/2018

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:

Eighteen water samples were received for analysis at ALS Environmental on 06/19/2018 - 06/20/2018. 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.

Semivolatile GC:

No significant anomalies were noted with this analysis.

General Chemistry:

Method SM 3500-Fe B.4.c/Ferrous Iron, One or more samples were received past the recommended holding time. The customer was notified when the discrepancy was found and instructed the laboratory to proceed with processing. The analysis was performed as soon as possible after receipt by the laboratory. The data is flagged to indicate the holding time violation.

Volatiles by GC:

No significant anomalies were noted with this analysis.

Field:

Sampling was performed by ALS personnel in accordance with ALS Field Sampling SOPs or by client specifications.

Volatiles by GC/MS:

Method 8260C, 06/28/2018: The lower control limit was exceeded for one or more analytes in the Continuing Calibration Verification (CCV). Since there were no detections of the analyte(s) in the associated field samples, the quantitation is not affected. The data quality was not significantly affected and no further corrective action was taken.

A handwritten signature in black ink, appearing to read "Samantha".

Approved by _____

Date 06/29/2018



SAMPLE DETECTION SUMMARY

CLIENT ID: BAT-87-02 (1) 180619 **Lab ID: R1805705-001**

Analyte	Results	Flag	MDL	MRL	Units	Method
Alkalinity, Total as CaCO3	406		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Bicarbonate Alkalinity as CaCO3	406		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Carbon Dioxide	417			2.0	mg/L	SM 4500-CO2 D
Carbon, Total Organic (TOC)	6.8		0.05	1.0	mg/L	SM 5310 C-2000 (2011)
Chloride	330		2	20	mg/L	9056A
Iron, Divalent (Ferrous Iron)	4.55		0.05	0.20	mg/L	SM 3500-Fe B.4.c
pH, Field	7.14				pH Units	SM 4500-H+ B
Sulfate	360		2	20	mg/L	9056A
Vinyl Chloride	85		0.22	1.0	ug/L	8260C
Acetone	3.3	J	2.1	5.0	ug/L	8260C
Carbon Disulfide	19		0.31	1.0	ug/L	8260C
Methylene Chloride	1.7		0.47	1.0	ug/L	8260C
trans-1,2-Dichloroethene	4.6		0.26	1.0	ug/L	8260C
1,1-Dichloroethane	12		0.20	1.0	ug/L	8260C
cis-1,2-Dichloroethene	50		0.26	1.0	ug/L	8260C
1,1,1-Trichloroethane	18		0.25	1.0	ug/L	8260C
Trichloroethene	3.9		0.20	1.0	ug/L	8260C
Toluene	0.22	J	0.20	1.0	ug/L	8260C
Ethene	260		0.69	5.0	ug/L	RSK 175
Methane	58		2.5	5.3	ug/L	RSK 175
Acetic Acid	6.6		1.0	1.0	mg/L	Organic Acids

CLIENT ID: BAT-87-01 (1) 180619 **Lab ID: R1805705-002**

Analyte	Results	Flag	MDL	MRL	Units	Method
Alkalinity, Total as CaCO3	514		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Bicarbonate Alkalinity as CaCO3	514		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Carbon Dioxide	542			2.0	mg/L	SM 4500-CO2 D
Carbon, Total Organic (TOC)	4.5		0.05	1.0	mg/L	SM 5310 C-2000 (2011)
Chloride	266		2	20	mg/L	9056A
Iron, Divalent (Ferrous Iron)	0.24		0.03	0.10	mg/L	SM 3500-Fe B.4.c
pH, Field	7.06				pH Units	SM 4500-H+ B
Sulfate	360		2	20	mg/L	9056A
Vinyl Chloride	300	D	1.1	5.0	ug/L	8260C
1,1-Dichloroethene	1.9		0.28	1.0	ug/L	8260C
Carbon Disulfide	8.5		0.31	1.0	ug/L	8260C
Methylene Chloride	6.3		0.47	1.0	ug/L	8260C
trans-1,2-Dichloroethene	4.9		0.26	1.0	ug/L	8260C
1,1-Dichloroethane	12		0.20	1.0	ug/L	8260C



SAMPLE DETECTION SUMMARY

CLIENT ID: BAT-87-01 (1) 180619 **Lab ID: R1805705-002**

Analyte	Results	Flag	MDL	MRL	Units	Method
cis-1,2-Dichloroethene	520	D	1.3	5.0	ug/L	8260C
Chloroform	0.34	J	0.28	1.0	ug/L	8260C
1,1,1-Trichloroethane	9.9		0.25	1.0	ug/L	8260C
Trichloroethene	98		0.20	1.0	ug/L	8260C
Toluene	0.24	J	0.20	1.0	ug/L	8260C
Ethene	180		1.4	10	ug/L	RSK 175
Methane	1000		5.0	11	ug/L	RSK 175

CLIENT ID: BAT-87-12 (1) 180619 **Lab ID: R1805705-003**

Analyte	Results	Flag	MDL	MRL	Units	Method
Alkalinity, Total as CaCO3	357		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Bicarbonate Alkalinity as CaCO3	357		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Carbon Dioxide	415			2.0	mg/L	SM 4500-CO2 D
Carbon, Total Organic (TOC)	3.5		0.05	1.0	mg/L	SM 5310 C-2000 (2011)
Chloride	191		2	20	mg/L	9056A
pH, Field	6.85				pH Units	SM 4500-H+ B
Sulfate	763		2	20	mg/L	9056A
Vinyl Chloride	1100		2.2	10	ug/L	8260C
1,1-Dichloroethene	5.2	J	2.8	10	ug/L	8260C
Carbon Disulfide	21		3.1	10	ug/L	8260C
Methylene Chloride	410		4.7	10	ug/L	8260C
trans-1,2-Dichloroethene	7.4	J	2.6	10	ug/L	8260C
1,1-Dichloroethane	27		2.0	10	ug/L	8260C
cis-1,2-Dichloroethene	1200		2.6	10	ug/L	8260C
1,1,1-Trichloroethane	31		2.5	10	ug/L	8260C
Trichloroethene	76		2.0	10	ug/L	8260C
Ethene	310		0.69	5.0	ug/L	RSK 175
Methane	130		2.5	5.3	ug/L	RSK 175

CLIENT ID: BAT-89-12 (1) 180619 **Lab ID: R1805705-004**

Analyte	Results	Flag	MDL	MRL	Units	Method
Alkalinity, Total as CaCO3	286		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Bicarbonate Alkalinity as CaCO3	286		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Carbon Dioxide	292			2.0	mg/L	SM 4500-CO2 D
Carbon, Total Organic (TOC)	3.9		0.05	1.0	mg/L	SM 5310 C-2000 (2011)
Chloride	207		3	40	mg/L	9056A
Iron, Divalent (Ferrous Iron)	0.90		0.03	0.10	mg/L	SM 3500-Fe B.4.c
pH, Field	7.16				pH Units	SM 4500-H+ B
Sulfate	872		4	40	mg/L	9056A



SAMPLE DETECTION SUMMARY

CLIENT ID: BAT-89-12 (1) 180619 **Lab ID: R1805705-004**

Analyte	Results	Flag	MDL	MRL	Units	Method
Vinyl Chloride	230		0.44	2.0	ug/L	8260C
1,1-Dichloroethene	0.64	J	0.56	2.0	ug/L	8260C
Carbon Disulfide	4.6		0.62	2.0	ug/L	8260C
trans-1,2-Dichloroethene	3.0		0.52	2.0	ug/L	8260C
1,1-Dichloroethane	11		0.40	2.0	ug/L	8260C
cis-1,2-Dichloroethene	180		0.52	2.0	ug/L	8260C
1,1,1-Trichloroethane	18		0.50	2.0	ug/L	8260C
Trichloroethene	16		0.40	2.0	ug/L	8260C
Ethene	480		1.4	10	ug/L	RSK 175
Methane	42		5.0	11	ug/L	RSK 175

CLIENT ID: BAT-DW-12 180619 **Lab ID: R1805705-005**

Analyte	Results	Flag	MDL	MRL	Units	Method
Alkalinity, Total as CaCO3	212		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Bicarbonate Alkalinity as CaCO3	212		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Carbon Dioxide	204			2.0	mg/L	SM 4500-CO2 D
Carbon, Total Organic (TOC)	3.1		0.05	1.0	mg/L	SM 5310 C-2000 (2011)
Chloride	322		2	20	mg/L	9056A
Iron, Divalent (Ferrous Iron)	0.34		0.03	0.10	mg/L	SM 3500-Fe B.4.c
pH, Field	7.37				pH Units	SM 4500-H+ B
Sulfate	282		2	20	mg/L	9056A
Vinyl Chloride	0.51	J	0.22	1.0	ug/L	8260C
1,1-Dichloroethane	1.3		0.20	1.0	ug/L	8260C
cis-1,2-Dichloroethene	7.5		0.26	1.0	ug/L	8260C
Trichloroethene	1.3		0.20	1.0	ug/L	8260C

CLIENT ID: BAT-89-10 (1) 180619 **Lab ID: R1805705-006**

Analyte	Results	Flag	MDL	MRL	Units	Method
Alkalinity, Total as CaCO3	352		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Bicarbonate Alkalinity as CaCO3	352		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Carbon Dioxide	365			2.0	mg/L	SM 4500-CO2 D
Carbon, Total Organic (TOC)	11.8		0.05	1.0	mg/L	SM 5310 C-2000 (2011)
Chloride	246		2	20	mg/L	9056A
Iron, Divalent (Ferrous Iron)	0.34		0.03	0.10	mg/L	SM 3500-Fe B.4.c
pH, Field	7.10				pH Units	SM 4500-H+ B
Sulfate	618		2	20	mg/L	9056A
Vinyl Chloride	160		11	50	ug/L	8260C
Carbon Disulfide	26	J	16	50	ug/L	8260C
Methylene Chloride	860		24	50	ug/L	8260C



SAMPLE DETECTION SUMMARY

CLIENT ID: BAT-89-10 (1) 180619 **Lab ID: R1805705-006**

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1-Dichloroethane	13	J	10	50	ug/L	8260C
cis-1,2-Dichloroethene	1500		13	50	ug/L	8260C
1,1,1-Trichloroethane	44	J	13	50	ug/L	8260C
Trichloroethene	7200		10	50	ug/L	8260C
Ethane	1.7		0.17	1.0	ug/L	RSK 175
Ethene	66		0.14	1.0	ug/L	RSK 175
Methane	11		0.50	1.1	ug/L	RSK 175
Acetic Acid	16		1.0	1.0	mg/L	Organic Acids

CLIENT ID: BAT-87-20 (1) 180619 **Lab ID: R1805705-007**

Analyte	Results	Flag	MDL	MRL	Units	Method
Alkalinity, Total as CaCO3	242		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Bicarbonate Alkalinity as CaCO3	242		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Carbon Dioxide	274			2.0	mg/L	SM 4500-CO2 D
Carbon, Total Organic (TOC)	2.8		0.05	1.0	mg/L	SM 5310 C-2000 (2011)
Chloride	166		2	20	mg/L	9056A
Iron, Divalent (Ferrous Iron)	0.25		0.03	0.10	mg/L	SM 3500-Fe B.4.c
pH, Field	6.90				pH Units	SM 4500-H+ B
Sulfate	506		2	20	mg/L	9056A
Vinyl Chloride	440		2.2	10	ug/L	8260C
1,1-Dichloroethene	3.8	J	2.8	10	ug/L	8260C
trans-1,2-Dichloroethene	4.3	J	2.6	10	ug/L	8260C
1,1-Dichloroethane	5.1	J	2.0	10	ug/L	8260C
cis-1,2-Dichloroethene	1200		2.6	10	ug/L	8260C
1,1,1-Trichloroethane	6.4	J	2.5	10	ug/L	8260C
Trichloroethene	24		2.0	10	ug/L	8260C
Ethane	1.6		0.17	1.0	ug/L	RSK 175
Ethene	71		0.14	1.0	ug/L	RSK 175
Methane	37		0.50	1.1	ug/L	RSK 175

CLIENT ID: BAT-87-22 (1) 180619 **Lab ID: R1805705-008**

Analyte	Results	Flag	MDL	MRL	Units	Method
Alkalinity, Total as CaCO3	423		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Bicarbonate Alkalinity as CaCO3	423		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Carbon Dioxide	507			2.0	mg/L	SM 4500-CO2 D
Carbon, Total Organic (TOC)	4.9		0.05	1.0	mg/L	SM 5310 C-2000 (2011)
Chloride	124		3	40	mg/L	9056A
Iron, Divalent (Ferrous Iron)	0.11		0.03	0.10	mg/L	SM 3500-Fe B.4.c
pH, Field	6.80				pH Units	SM 4500-H+ B



SAMPLE DETECTION SUMMARY

CLIENT ID: BAT-87-22 (1) 180619 **Lab ID: R1805705-008**

Analyte	Results	Flag	MDL	MRL	Units	Method
Sulfate	1090		4	40	mg/L	9056A
Vinyl Chloride	1100		4.4	20	ug/L	8260C
trans-1,2-Dichloroethene	9.2	J	5.2	20	ug/L	8260C
1,1-Dichloroethane	7.8	J	4.0	20	ug/L	8260C
cis-1,2-Dichloroethene	2100		5.2	20	ug/L	8260C
Trichloroethene	9.8	J	4.0	20	ug/L	8260C
Ethane	6.1		0.17	1.0	ug/L	RSK 175
Ethene	87		0.14	1.0	ug/L	RSK 175
Methane	200	D	1.3	2.6	ug/L	RSK 175
Acetic Acid	2.3		1.0	1.0	mg/L	Organic Acids

CLIENT ID: BAT-DW-11 180619 **Lab ID: R1805705-009**

Analyte	Results	Flag	MDL	MRL	Units	Method
Alkalinity, Total as CaCO3	547		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Bicarbonate Alkalinity as CaCO3	547		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Carbon Dioxide	647			2.0	mg/L	SM 4500-CO2 D
Carbon, Total Organic (TOC)	24.6		0.2	4.0	mg/L	SM 5310 C-2000 (2011)
Chloride	782		2	20	mg/L	9056A
Iron, Divalent (Ferrous Iron)	0.24		0.03	0.10	mg/L	SM 3500-Fe B.4.c
pH, Field	6.82				pH Units	SM 4500-H+ B
Sulfate	167		2	20	mg/L	9056A
Vinyl Chloride	59		1.1	5.0	ug/L	8260C
1,1-Dichloroethene	1.4	J	1.4	5.0	ug/L	8260C
Acetone	22	J	11	25	ug/L	8260C
Carbon Disulfide	13		1.6	5.0	ug/L	8260C
Methylene Chloride	180		2.4	5.0	ug/L	8260C
trans-1,2-Dichloroethene	1.7	J	1.3	5.0	ug/L	8260C
1,1-Dichloroethane	3.4	J	1.0	5.0	ug/L	8260C
cis-1,2-Dichloroethene	630		1.3	5.0	ug/L	8260C
Chloroform	2.7	J	1.4	5.0	ug/L	8260C
1,1,1-Trichloroethane	7.8		1.3	5.0	ug/L	8260C
Trichloroethene	180		1.0	5.0	ug/L	8260C
Ethane	1.0		0.17	1.0	ug/L	RSK 175
Ethene	40		0.14	1.0	ug/L	RSK 175
Methane	69		0.50	1.1	ug/L	RSK 175
Acetic Acid	19		1.0	1.0	mg/L	Organic Acids

CLIENT ID: BAT-B-14 (1) 180619 **Lab ID: R1805705-010**

Analyte	Results	Flag	MDL	MRL	Units	Method
Alkalinity, Total as CaCO3	308		1.0	2.0	mg/L	SM 2320 B-1997 (2011)



SAMPLE DETECTION SUMMARY

CLIENT ID: BAT-B-14 (1) 180619 **Lab ID: R1805705-010**

Analyte	Results	Flag	MDL	MRL	Units	Method
Bicarbonate Alkalinity as CaCO3	308		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Carbon Dioxide	305			2.0	mg/L	SM 4500-CO2 D
Carbon, Total Organic (TOC)	3.9		0.05	1.0	mg/L	SM 5310 C-2000 (2011)
Chloride	134		0.5	8.0	mg/L	9056A
pH, Field	7.26				pH Units	SM 4500-H+ B
Sulfate	1070		8	80	mg/L	9056A
Vinyl Chloride	170		0.22	1.0	ug/L	8260C
1,1-Dichloroethene	0.93	J	0.28	1.0	ug/L	8260C
trans-1,2-Dichloroethene	1.3		0.26	1.0	ug/L	8260C
1,1-Dichloroethane	17		0.20	1.0	ug/L	8260C
cis-1,2-Dichloroethene	97		0.26	1.0	ug/L	8260C
1,1,1-Trichloroethane	64		0.25	1.0	ug/L	8260C
Trichloroethene	1.5		0.20	1.0	ug/L	8260C
Ethane	1.4		0.17	1.0	ug/L	RSK 175
Ethene	17		0.14	1.0	ug/L	RSK 175
Methane	80		0.50	1.1	ug/L	RSK 175

CLIENT ID: BAT-87-09 (1) 180619 **Lab ID: R1805705-011**

Analyte	Results	Flag	MDL	MRL	Units	Method
Alkalinity, Total as CaCO3	314		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Bicarbonate Alkalinity as CaCO3	314		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Carbon Dioxide	316			2.0	mg/L	SM 4500-CO2 D
Carbon, Total Organic (TOC)	3.5		0.05	1.0	mg/L	SM 5310 C-2000 (2011)
Chloride	129		0.5	8.0	mg/L	9056A
pH, Field	7.19				pH Units	SM 4500-H+ B
Sulfate	1080		8	80	mg/L	9056A
Vinyl Chloride	150		0.22	1.0	ug/L	8260C
1,1-Dichloroethene	1.1		0.28	1.0	ug/L	8260C
Carbon Disulfide	1.4		0.31	1.0	ug/L	8260C
trans-1,2-Dichloroethene	1.4		0.26	1.0	ug/L	8260C
1,1-Dichloroethane	16		0.20	1.0	ug/L	8260C
cis-1,2-Dichloroethene	130		0.26	1.0	ug/L	8260C
1,1,1-Trichloroethane	81		0.25	1.0	ug/L	8260C
Trichloroethene	1.6		0.20	1.0	ug/L	8260C
Ethane	1.6		0.17	1.0	ug/L	RSK 175
Ethene	12		0.14	1.0	ug/L	RSK 175
Methane	79		0.50	1.1	ug/L	RSK 175



SAMPLE DETECTION SUMMARY

CLIENT ID: BAT-89-15 (1) 180620		Lab ID: R1805705-012				
Analyte	Results	Flag	MDL	MRL	Units	Method
Alkalinity, Total as CaCO3	469		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Bicarbonate Alkalinity as CaCO3	469		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Carbon Dioxide	437			2.0	mg/L	SM 4500-CO2 D
Carbon, Total Organic (TOC)	18.9		0.05	1.0	mg/L	SM 5310 C-2000 (2011)
Chloride	85.3		0.2	2.0	mg/L	9056A
pH, Field	7.58				pH Units	SM 4500-H+ B
Sulfate	241		0.8	8.0	mg/L	9056A
Vinyl Chloride	93		1.1	5.0	ug/L	8260C
Carbon Disulfide	16		1.6	5.0	ug/L	8260C
Methylene Chloride	670		2.4	5.0	ug/L	8260C
trans-1,2-Dichloroethene	2.0	J	1.3	5.0	ug/L	8260C
1,1-Dichloroethane	3.8	J	1.0	5.0	ug/L	8260C
cis-1,2-Dichloroethene	150		1.3	5.0	ug/L	8260C
Trichloroethene	110		1.0	5.0	ug/L	8260C
Ethene	340		0.69	5.0	ug/L	RSK 175
Methane	78		2.5	5.3	ug/L	RSK 175
Acetic Acid	17		1.0	1.0	mg/L	Organic Acids
Butanoic Acid (Butyric Acid)	3.6		0.32	2.0	mg/L	Organic Acids
Propionic Acid	2.0		0.19	1.0	mg/L	Organic Acids

CLIENT ID: BAT-DW-10 180620		Lab ID: R1805705-013				
Analyte	Results	Flag	MDL	MRL	Units	Method
Alkalinity, Total as CaCO3	138		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Bicarbonate Alkalinity as CaCO3	138		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Carbon Dioxide	214			2.0	mg/L	SM 4500-CO2 D
Carbon, Total Organic (TOC)	107		0.5	10	mg/L	SM 5310 C-2000 (2011)
Chloride	30.2		0.2	2.0	mg/L	9056A
Iron, Divalent (Ferrous Iron)	0.18		0.03	0.10	mg/L	SM 3500-Fe B.4.c
pH, Field	6.47				pH Units	SM 4500-H+ B
Sulfate	28.5		0.2	2.0	mg/L	9056A
Vinyl Chloride	38	J	11	50	ug/L	8260C
Methylene Chloride	5100		24	50	ug/L	8260C
cis-1,2-Dichloroethene	130		13	50	ug/L	8260C
Trichloroethene	610		10	50	ug/L	8260C
Ethane	30		0.17	1.0	ug/L	RSK 175
Ethene	19		0.14	1.0	ug/L	RSK 175
Methane	33		0.50	1.1	ug/L	RSK 175
Acetic Acid	56		1.0	1.0	mg/L	Organic Acids



SAMPLE DETECTION SUMMARY

CLIENT ID: BAT-DW-10 180620 **Lab ID: R1805705-013**

Analyte	Results	Flag	MDL	MRL	Units	Method
Butanoic Acid (Butyric Acid)	7.1		0.32	2.0	mg/L	Organic Acids
Propionic Acid	4.0		0.19	1.0	mg/L	Organic Acids

CLIENT ID: BAT-87-08 (1) 180620 **Lab ID: R1805705-014**

Analyte	Results	Flag	MDL	MRL	Units	Method
Alkalinity, Total as CaCO3	455		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Bicarbonate Alkalinity as CaCO3	455		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Carbon Dioxide	460			2.0	mg/L	SM 4500-CO2 D
Carbon, Total Organic (TOC)	4.1		0.05	1.0	mg/L	SM 5310 C-2000 (2011)
Chloride	22.5		0.2	2.0	mg/L	9056A
Iron, Divalent (Ferrous Iron)	0.14		0.03	0.10	mg/L	SM 3500-Fe B.4.c
pH, Field	7.18				pH Units	SM 4500-H+ B
Sulfate	305		0.8	8.0	mg/L	9056A
Vinyl Chloride	360		0.55	2.5	ug/L	8260C
1,1-Dichloroethene	0.94	J	0.70	2.5	ug/L	8260C
Acetone	6.3	J	5.3	13	ug/L	8260C
Carbon Disulfide	6.6		0.78	2.5	ug/L	8260C
trans-1,2-Dichloroethene	3.8		0.65	2.5	ug/L	8260C
1,1-Dichloroethane	6.6		0.50	2.5	ug/L	8260C
cis-1,2-Dichloroethene	160		0.65	2.5	ug/L	8260C
1,1,1-Trichloroethane	1.9	J	0.63	2.5	ug/L	8260C
Trichloroethene	6.1		0.50	2.5	ug/L	8260C
Ethene	380		0.69	5.0	ug/L	RSK 175
Methane	69		2.5	5.3	ug/L	RSK 175

CLIENT ID: BAT-DW-9 180620 **Lab ID: R1805705-015**

Analyte	Results	Flag	MDL	MRL	Units	Method
Alkalinity, Total as CaCO3	168		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Bicarbonate Alkalinity as CaCO3	168		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Carbon Dioxide	152			2.0	mg/L	SM 4500-CO2 D
Carbon, Total Organic (TOC)	4.6		0.05	1.0	mg/L	SM 5310 C-2000 (2011)
Chloride	10.3		0.2	2.0	mg/L	9056A
Nitrate as Nitrogen	5.1		0.04	1.0	mg/L	9056A
pH, Field	7.84				pH Units	SM 4500-H+ B
Sulfate	62.3		0.2	2.0	mg/L	9056A
Vinyl Chloride	1.7		0.22	1.0	ug/L	8260C
Methylene Chloride	0.58	J	0.47	1.0	ug/L	8260C
cis-1,2-Dichloroethene	6.8		0.26	1.0	ug/L	8260C
Trichloroethene	11		0.20	1.0	ug/L	8260C



SAMPLE DETECTION SUMMARY

CLIENT ID: BAT-DW-9 180620 **Lab ID: R1805705-015**

Analyte	Results	Flag	MDL	MRL	Units	Method
Ethene	1.2		0.14	1.0	ug/L	RSK 175
Methane	1.4		0.50	1.1	ug/L	RSK 175

CLIENT ID: BAT-B-10A (1) 180620 **Lab ID: R1805705-016**

Analyte	Results	Flag	MDL	MRL	Units	Method
Alkalinity, Total as CaCO3	701		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Bicarbonate Alkalinity as CaCO3	701		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Carbon Dioxide	696			2.0	mg/L	SM 4500-CO2 D
Carbon, Total Organic (TOC)	112		0.5	10	mg/L	SM 5310 C-2000 (2011)
Chloride	67.0		0.2	2.0	mg/L	9056A
pH, Field	7.25				pH Units	SM 4500-H+ B
Sulfate	35.1		0.2	2.0	mg/L	9056A
Vinyl Chloride	750		55	250	ug/L	8260C
1,1-Dichloroethene	200	J	70	250	ug/L	8260C
Methylene Chloride	740		120	250	ug/L	8260C
trans-1,2-Dichloroethene	87	J	65	250	ug/L	8260C
1,1-Dichloroethane	180	J	50	250	ug/L	8260C
cis-1,2-Dichloroethene	37000		65	250	ug/L	8260C
1,1,1-Trichloroethane	730		63	250	ug/L	8260C
Trichloroethene	12000		50	250	ug/L	8260C
Ethane	3.2		0.17	1.0	ug/L	RSK 175
Ethene	93	D	2.8	20	ug/L	RSK 175
Methane	1200	D	10	21	ug/L	RSK 175
Acetic Acid	170		1.0	1.0	mg/L	Organic Acids
Butanoic Acid (Butyric Acid)	13		0.32	2.0	mg/L	Organic Acids
Propionic Acid	44		0.19	1.0	mg/L	Organic Acids

CLIENT ID: BAT-87-13 (1) 180620 **Lab ID: R1805705-017**

Analyte	Results	Flag	MDL	MRL	Units	Method
Alkalinity, Total as CaCO3	1000		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Bicarbonate Alkalinity as CaCO3	1000		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Carbon Dioxide	1560			2.0	mg/L	SM 4500-CO2 D
Carbon, Total Organic (TOC)	270		0.5	10	mg/L	SM 5310 C-2000 (2011)
Chloride	448		2	20	mg/L	9056A
Iron, Divalent (Ferrous Iron)	0.16		0.03	0.10	mg/L	SM 3500-Fe B.4.c
pH, Field	6.47				pH Units	SM 4500-H+ B
Sulfate	547		2	20	mg/L	9056A
Vinyl Chloride	1400		220	1000	ug/L	8260C
Methylene Chloride	490000	D	2400	5000	ug/L	8260C



SAMPLE DETECTION SUMMARY

CLIENT ID: BAT-87-13 (1) 180620 **Lab ID: R1805705-017**

Analyte	Results	Flag	MDL	MRL	Units	Method
1,1-Dichloroethane	570	J	200	1000	ug/L	8260C
cis-1,2-Dichloroethene	44000		260	1000	ug/L	8260C
1,1,1-Trichloroethane	1700		250	1000	ug/L	8260C
Trichloroethene	88000		200	1000	ug/L	8260C
Ethane	8.9		0.41	2.6	ug/L	RSK 175
Ethene	150		0.35	2.5	ug/L	RSK 175
Methane	180		1.3	2.6	ug/L	RSK 175
Acetic Acid	430		5.0	5.0	mg/L	Organic Acids
Lactic Acid	11		0.67	5.0	mg/L	Organic Acids
Propionic Acid	24		0.94	5.0	mg/L	Organic Acids

CLIENT ID: BAT-87-17 (1) 180620 **Lab ID: R1805705-018**

Analyte	Results	Flag	MDL	MRL	Units	Method
Alkalinity, Total as CaCO3	288		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Bicarbonate Alkalinity as CaCO3	288		1.0	2.0	mg/L	SM 2320 B-1997 (2011)
Carbon Dioxide	286			2.0	mg/L	SM 4500-CO2 D
Carbon, Total Organic (TOC)	3.7		0.05	1.0	mg/L	SM 5310 C-2000 (2011)
Chloride	142		0.5	8.0	mg/L	9056A
Iron, Divalent (Ferrous Iron)	0.25		0.03	0.10	mg/L	SM 3500-Fe B.4.c
pH, Field	7.25				pH Units	SM 4500-H+ B
Sulfate	1120		8	80	mg/L	9056A
Vinyl Chloride	220		0.44	2.0	ug/L	8260C
1,1-Dichloroethene	1.2	J	0.56	2.0	ug/L	8260C
trans-1,2-Dichloroethene	2.0	J	0.52	2.0	ug/L	8260C
1,1-Dichloroethane	20		0.40	2.0	ug/L	8260C
cis-1,2-Dichloroethene	92		0.52	2.0	ug/L	8260C
1,1,1-Trichloroethane	89		0.50	2.0	ug/L	8260C
Trichloroethene	2.1		0.40	2.0	ug/L	8260C
Ethane	1.2		0.17	1.0	ug/L	RSK 175
Ethene	13		0.14	1.0	ug/L	RSK 175
Methane	72		0.50	1.1	ug/L	RSK 175



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
Project: Textron Injections/631236330

Service Request:R1805705

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
R1805705-001	BAT-87-02 (1) 180619	6/19/2018	0930
R1805705-002	BAT-87-01 (1) 180619	6/19/2018	1005
R1805705-003	BAT-87-12 (1) 180619	6/19/2018	1035
R1805705-004	BAT-89-12 (1) 180619	6/19/2018	1110
R1805705-005	BAT-DW-12 180619	6/19/2018	1130
R1805705-006	BAT-89-10 (1) 180619	6/19/2018	1200
R1805705-007	BAT-87-20 (1) 180619	6/19/2018	1325
R1805705-008	BAT-87-22 (1) 180619	6/19/2018	1400
R1805705-009	BAT-DW-11 180619	6/19/2018	1430
R1805705-010	BAT-B-14 (1) 180619	6/19/2018	1500
R1805705-011	BAT-87-09 (1) 180619	6/19/2018	1535
R1805705-012	BAT-89-15 (1) 180620	6/20/2018	1035
R1805705-013	BAT-DW-10 180620	6/20/2018	1125
R1805705-014	BAT-87-08 (1) 180620	6/20/2018	1155
R1805705-015	BAT-DW-9 180620	6/20/2018	1220
R1805705-016	BAT-B-10A (1) 180620	6/20/2018	1305
R1805705-017	BAT-87-13 (1) 180620	6/20/2018	1340
R1805705-018	BAT-87-17 (1) 180620	6/20/2018	1415



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

49840

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 INJECTIONS		Project Number 631236330		ANALYSIS REQUESTED (Include Method Number and Container Preservative)																				
Project Manager CECELA BYERS		Report CC		PRESERVATIVE 1																				
Company/Address APTIM		Email CECELA.BYERS@APTIM.COM		NUMBER OF CONTAINERS	GC/MS VOAs • 8260 • 826 • CLP GC/MS SVOAs • 8270 • 825 GC VOAs • 8021 • 801/802 PESTICIDES • 8081 • 808 PCBs • 8082 • 808 METALS, TOTAL (List in comments below) METALS, DISSOLVED (List in comments below)	TOC 5310 C VOLATILE PARTIAL 8015 ETHANE-ETHANE-METHANE CO2 9056 A	PRESERVATIVE KEY 0. NONE 1. HCL 2. HNO3 3. H2SO4 4. NaOH 5. Zn. Acetate 6. MeOH 7. NaHSO4 8. Other H3PO4	REMARKS/ ALTERNATE DESCRIPTION																
13 BRITISH AMERICAN BLVD.		APTIM																						
LATHAM, NY 12110		APTIM																						
Phone 518-783-1996		Sample Printed Name KEVIN CLONIN																						
Sample Signature Kevin Clonin		Sample Printed Name KEVIN CLONIN																						
CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE		TIME	MATRIX							PH:												
BAT 87-02(1) 180619		06/19/18		0930	GW	12	X	X	X	X	X	X	X	X	X	7.14								
BAT 87-01(1) 180619				1005												7.06								
BAT 87-12(1) 180619				1035												6.85								
BAT 87-12(1) 180619				1100												7.16								
BAT-DW-12-180619				1130												7.37								
BAT 87-10(1) 180619				1200												7.10								
BAT 87-20(1) 180619				1325												6.90								
BAT 87-22(1) 180619				1400												6.80								
BAT-DW-11-180619				1430												6.82								
BAT 87-14(1) 180619				1500												7.26								
BAT 87-09(1) 180619				1535												7.19								
SPECIAL INSTRUCTIONS/COMMENTS Metals P.O. 1230175 * PRODUCT MAY BE PRESENT					TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) 1 day 2 day 3 day 4 day 5 day REQUESTED REPORT DATE STANDARD					REPORT REQUIREMENTS <input checked="" type="checkbox"/> I. Results Only <input type="checkbox"/> II. Results + QC Summaries (LCS, DUP, MS/MSD as required) <input type="checkbox"/> III. Results + QC and Calibration Summaries <input type="checkbox"/> IV. Data Validation Report with Raw Data Edata Yes No					INVOICE INFORMATION PO # BILL TO:									
STATE WHERE SAMPLES WERE COLLECTED NY					RELINQUISHED BY					RECEIVED BY					RELINQUISHED BY					RECEIVED BY				
Signature Kevin Clonin					Signature Bob Clonin					Signature Bob Clonin					Signature Kevin Clonin					Signature Kevin Clonin				
Printed Name KEVIN CLONIN					Printed Name Bob Clonin					Printed Name Bob Clonin					Printed Name Kevin Clonin					Printed Name Kevin Clonin				
Firm APTIM					Firm ALS					Firm ALS					Firm ALS					Firm ALS				
Date/Time 6/19/18 1540					Date/Time 6/19/18 1540					Date/Time 6/19/18 1730					Date/Time 6/19/18 1730					Date/Time 6/19/18 1730				

R1805705 **5**
APTIM, Inc
Textron Injections



Cooler Receipt and Preservation Check Form

R1805705

5

APTIM, Inc
Texttron Injections



Project/Client Texttron - APTIM Folder Number _____

Cooler received on 6/19/18 by: dm

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
2	Custody papers properly completed (ink, signed)?	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
3	Did all bottles arrive in good condition (unbroken)?	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
4	Circle: Wet Ice Dry Ice Gel packs present?	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>

5a	Perchlorate samples have required headspace?	Y N <input checked="" type="checkbox"/> NA
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y <input checked="" type="checkbox"/> N <input type="checkbox"/> NA
6	Where did the bottles originate?	<u>AKS/ROO</u> CLIENT
7	Soil VOA received as:	Bulk Encore 5035set <input checked="" type="checkbox"/> NA

8. Temperature Readings Date: 6/19/18 Time: 1730 ID: IR#7 IR#9 From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>14.4</u>	<u>11.5</u>					
Correction Factor (°C)	<u>±0.0</u>	<u>±0.0</u>					
Corrected Temp (°C)	<u>14.4</u>	<u>11.5</u>					
Temp from: Type of bottle							
Within 0-6°C?	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	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 dm on 6/19/18 at 1730
5035 samples placed in storage location: _____ by _____ on _____ at _____

Cooler Breakdown/Preservation Check**: Date: 6/20/18 Time: 1236 by: dm

- 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
- 13. Air Samples: Cassettes / Tubes Intact with MS? Canisters Pressurized Tedlar® Bags Inflated N/A N/A

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
≤2		HNO ₃								
≤2	<u>204518</u>	H ₂ SO ₄	<input checked="" type="checkbox"/>		<u>21B0071</u>					
<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 ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃								
		Zn Acetate	-	-						
		HCl	**	**						

**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: 8-039-004, 8-072-001, 04/16/18-1BMC, 04/16/18-2AMC
Explain all Discrepancies/ Other Comments:

H₃PO₄ = 185422 Exp. 1/19

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

Labels secondary reviewed by: dm
PC Secondary Review: dm 6/23/18

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



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

50375

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 INJECTIONS		Project Number 631 736330		ANALYSIS REQUESTED (Include Method Number and Container Preservative)														
Project Manager CECELIA BYERS		Report OC		PRESERVATIVE 1														
Company/Address APTIM		Email CECELIA.BYERS@APTIM.COM		NUMBER OF CONTAINERS	GC/MS VOCs • 8260 • 824 • CLP	GC/MS SVOCs • 8270 • 825	GC VOCs • 8021 • 801/802	PESTICIDES • 8081 • 808	PCBs • 8082 • 808	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	TDC 5310 C	VOLATILE FATTY ACIDS 8015	ETHENE-ETHANE-ANTHRA C02	9056 A	PRESERVATIVE KEY 0. NONE 1. HCL 2. HNO3 3. H2SO4 4. NaOH 5. Zn. Acetate 6. MeOH 7. NaHSO4 8. Other _____		
13 BRITISH AMERICAN BLVD.		Sample's Signature Kevin Cronin															REMARKS/ ALTERNATE DESCRIPTION	
LATHAM, NY 12110		Sample's Printed Name KEVIN CRONIN																
Phone # 518-783-1986		Sample's Signature																

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING		MATRIX														
		DATE	TIME															
BAT-89-15(1)180620		06/20/18	1035	GW	X					X	X	X	X	X				
BAT-DW-10-180620			1125															
BAT-87-08(1)180620			1155															
BAT-DW-9-180620			1220															
BAT-B-10A(1)180620			1305															
BAT 87-13(1)180620			1340															
BAT 87-17(1)180620			1415															

PH:
7.58 *
6.47 *
7.18
7.84
7.25
6.47 *
7.25

SPECIAL INSTRUCTIONS/COMMENTS Metals P.O. 1230175		TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) 1 day 2 day 3 day 4 day 5 day		REPORT REQUIREMENTS <input checked="" type="checkbox"/> I. Results Only II. Results + OC Summaries (LCS, DUP, MS/MSD as required) III. Results + OC and Calibration Summaries IV. Data Validation Report with Raw Data		INVOICE INFORMATION PO # BILL TO:	
* PRODUCT MAY BE PRESENT		REQUESTED REPORT DATE STANDARD		Edata Yes No			

STATE WHERE SAMPLES WERE COLLECTED NY		RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY	
Signature Kevin Cronin		Signature Kevin Cronin		Signature Kevin Cronin		Signature Kevin Cronin		Signature Kevin Cronin	
Printed Name Kevin Cronin		Printed Name Kevin Cronin		Printed Name Kevin Cronin		Printed Name Kevin Cronin		Printed Name Kevin Cronin	
Firm APTIM		Firm APTIM		Firm APTIM		Firm APTIM		Firm APTIM	
Date/Time 6/20/19 1420		Date/Time 6/20/19 1420		Date/Time 6/20/19 1420		Date/Time 6/20/19 1420		Date/Time 6/20/18/1001	

R1805705 **5**
APTIM, Inc
Textron Injections



Cooler Receipt and Preservation Check Form

R1805705

5

APTIM, Inc
Texttron Injections



Project/Client APTIM

Folder Number _____

Cooler received on 6/20/18

by: Shu

COURIER: ALS UPS FEDEX VELOCITY CLIENT

1	Were Custody seals on outside of cooler?	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
2	Custody papers properly completed (ink, signed)?	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
3	Did all bottles arrive in good condition (unbroken)?	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>
4	Circle: Wet Ice Dry Ice Gel packs present?	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>

5a	Perchlorate samples have required headspace?	Y N <input checked="" type="checkbox"/>
5b	Did VOA vials, Alk, or Sulfide have sig* bubbles?	Y <input checked="" type="checkbox"/> NA <input type="checkbox"/>
6	Where did the bottles originate?	<u>ACS/ROC</u> CLIENT
7	Soil VOA received as:	Bulk Encore 5035set <input checked="" type="checkbox"/> NA <input type="checkbox"/>

8. Temperature Readings Date: 6/20/18 Time: 1613

ID: IR#7 IR#9

From: Temp Blank Sample Bottle

Observed Temp (°C)	<u>7.4</u>	<u>7.4</u>						
Correction Factor (°C)	<u>±0.0</u>	<u>±0.0</u>						
Corrected Temp (°C)	<u>7.4</u>	<u>7.4</u>						
Temp from: Type of bottle								
Within 0-6°C?	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	Y <input checked="" type="checkbox"/> N <input type="checkbox"/>	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	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: R202 by Shu on 6/20/18 at 1613
 5035 samples placed in storage location: _____ by _____ on _____ at _____

Cooler Breakdown/Preservation Check**: Date: 6/21/18 Time: 1630 by: Shu

- 9. Were all bottle labels complete (i.e. analysis, preservation, etc.)? YES NO
- 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 N/A Tedlar® Bags Inflated N/A

pH	Lot of test paper	Reagent	Preserved?		Lot Received	Exp	Sample ID Adjusted	Vol. Added	Lot Added	Final pH
			Yes	No						
≥12		NaOH								
≤2		HNO ₃								
≤2		H ₂ SO 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 ₂ S ₂ O ₃ (625, 608, CN), ascorbic (phenol).					
		Na ₂ S ₂ O ₃								
		ZnAcetate	-	-						
		HCl	**	**	<u>411709C</u>					

**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: 041618-1BAC, 041618-2AAC, 8-039-004
Explain all Discrepancies/ Other Comments:

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

Labels secondary reviewed by: ol
PC Secondary Review: Shu 6/25/18

*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

- | | |
|---|--|
| <p>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.</p> <p>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/Aroclors).</p> <p>B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.</p> <p>E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.</p> <p>E Organics- Concentration has exceeded the calibration range for that specific analysis.</p> <p>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.</p> <p>* Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.</p> <p>H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.</p> <p># Spike was diluted out.</p> | <p>+ Correlation coefficient for MSA is <0.995.</p> <p>N Inorganics- Matrix spike recovery was outside laboratory limits.</p> <p>N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.</p> <p>S Concentration has been determined using Method of Standard Additions (MSA).</p> <p>W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.</p> <p>P Concentration >40% difference between the two GC columns.</p> <p>C Confirmed by GC/MS</p> <p>Q DoD reports: indicates a pesticide/Aroclor is not confirmed ($\times 100\%$ Difference between two GC columns).</p> <p>X See Case Narrative for discussion.</p> <p>MRL Method Reporting Limit. Also known as:</p> <p>LOQ Limit of Quantitation (LOQ)
The lowest concentration at which the method analyte may be reliably quantified under the method conditions.</p> <p>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).</p> <p>LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.</p> <p>ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.</p> |
|---|--|



Rochester Lab ID # for State Certifications¹

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID #
Delaware Approved	New Jersey ID # NY004	294100 A/B
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 laboratory's 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
Project: Textron Injections/631236330

Service Request: R1805705

Non-Certified Analytes

Certifying Agency: New York Department of Health

Method	Matrix	Analyte
Organic Acids	Water	Acetic Acid
Organic Acids	Water	Butanoic Acid (Butyric Acid)
Organic Acids	Water	Lactic Acid
Organic Acids	Water	Propionic Acid
Organic Acids	Water	Pyruvic Acid
SM 3500-Fe B.4.c	Water	Iron, Divalent (Ferrous Iron)
SM 4500-CO2 D	Water	Carbon Dioxide
SM 4500-H+ B	Water	pH, Field

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: APTIM, Inc
Project: Textron Injections/631236330

Service Request: R1805705

Sample Name: BAT-87-02 (1) 180619
Lab Code: R1805705-001
Sample Matrix: Water

Date Collected: 06/19/18
Date Received: 06/19/18

Analysis Method	Extracted/Digested By	Analyzed By
8260C		DLIPANI
9056A		AMOSSES
Organic Acids		BALLGEIER
RSK 175		BALLGEIER
SM 2320 B-1997(2011)		CWOODS
SM 3500-Fe B.4.c		AFELSER
SM 4500-CO2 D		NA
SM 4500-H+ B		JJANSON
SM 5310 C-2000(2011)		CWOODS

Sample Name: BAT-87-01 (1) 180619
Lab Code: R1805705-002
Sample Matrix: Water

Date Collected: 06/19/18
Date Received: 06/19/18

Analysis Method	Extracted/Digested By	Analyzed By
8260C		DLIPANI
9056A		AMOSSES
Organic Acids		BALLGEIER
RSK 175		BALLGEIER
SM 2320 B-1997(2011)		CWOODS
SM 3500-Fe B.4.c		AFELSER
SM 4500-CO2 D		NA
SM 4500-H+ B		JJANSON
SM 5310 C-2000(2011)		CWOODS

Sample Name: BAT-87-12 (1) 180619
Lab Code: R1805705-003
Sample Matrix: Water

Date Collected: 06/19/18
Date Received: 06/19/18

Analysis Method	Extracted/Digested By	Analyzed By
8260C		DLIPANI
9056A		AMOSSES

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: APTIM, Inc
Project: Textron Injections/631236330

Service Request: R1805705

Sample Name: BAT-87-12 (1) 180619
Lab Code: R1805705-003
Sample Matrix: Water

Date Collected: 06/19/18
Date Received: 06/19/18

Analysis Method	Extracted/Digested By	Analyzed By
Organic Acids		BALLGEIER
RSK 175		BALLGEIER
SM 2320 B-1997(2011)		CWOODS
SM 3500-Fe B.4.c		AFELSER
SM 4500-CO2 D		NA
SM 4500-H+ B		JJANSON
SM 5310 C-2000(2011)		CWOODS

Sample Name: BAT-89-12 (1) 180619
Lab Code: R1805705-004
Sample Matrix: Water

Date Collected: 06/19/18
Date Received: 06/19/18

Analysis Method	Extracted/Digested By	Analyzed By
8260C		DLIPANI
9056A		AMOSSES
Organic Acids		BALLGEIER
RSK 175		BALLGEIER
SM 2320 B-1997(2011)		CWOODS
SM 3500-Fe B.4.c		AFELSER
SM 4500-CO2 D		NA
SM 4500-H+ B		JJANSON
SM 5310 C-2000(2011)		CWOODS

Sample Name: BAT-DW-12 180619
Lab Code: R1805705-005
Sample Matrix: Water

Date Collected: 06/19/18
Date Received: 06/19/18

Analysis Method	Extracted/Digested By	Analyzed By
8260C		DLIPANI
9056A		AMOSSES
Organic Acids		BALLGEIER
RSK 175		BALLGEIER

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: APTIM, Inc
Project: Textron Injections/631236330

Service Request: R1805705

Sample Name: BAT-DW-12 180619
Lab Code: R1805705-005
Sample Matrix: Water

Date Collected: 06/19/18
Date Received: 06/19/18

Analysis Method	Extracted/Digested By	Analyzed By
SM 2320 B-1997(2011)		CWOODS
SM 3500-Fe B.4.c		AFELSER
SM 4500-CO2 D		NA
SM 4500-H+ B		JJANSON
SM 5310 C-2000(2011)		CWOODS

Sample Name: BAT-89-10 (1) 180619
Lab Code: R1805705-006
Sample Matrix: Water

Date Collected: 06/19/18
Date Received: 06/19/18

Analysis Method	Extracted/Digested By	Analyzed By
8260C		DLIPANI
9056A		AMOSSES
Organic Acids		BALLGEIER
RSK 175		BALLGEIER
SM 2320 B-1997(2011)		CWOODS
SM 3500-Fe B.4.c		AFELSER
SM 4500-CO2 D		NA
SM 4500-H+ B		JJANSON
SM 5310 C-2000(2011)		CWOODS

Sample Name: BAT-87-20 (1) 180619
Lab Code: R1805705-007
Sample Matrix: Water

Date Collected: 06/19/18
Date Received: 06/19/18

Analysis Method	Extracted/Digested By	Analyzed By
8260C		DLIPANI
9056A		AMOSSES
Organic Acids		BALLGEIER
RSK 175		BALLGEIER
SM 2320 B-1997(2011)		CWOODS
SM 3500-Fe B.4.c		AFELSER

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: APTIM, Inc
Project: Textron Injections/631236330

Service Request: R1805705

Sample Name: BAT-87-20 (1) 180619
Lab Code: R1805705-007
Sample Matrix: Water

Date Collected: 06/19/18
Date Received: 06/19/18

Analysis Method
SM 4500-CO2 D
SM 4500-H+ B
SM 5310 C-2000(2011)

Extracted/Digested By

Analyzed By
NA
JJANSON
CWOODS

Sample Name: BAT-87-22 (1) 180619
Lab Code: R1805705-008
Sample Matrix: Water

Date Collected: 06/19/18
Date Received: 06/19/18

Analysis Method
8260C
9056A
Organic Acids
RSK 175
SM 2320 B-1997(2011)

SM 3500-Fe B.4.c
SM 4500-CO2 D
SM 4500-H+ B
SM 5310 C-2000(2011)

Extracted/Digested By

Analyzed By
DLIPANI
AMOSSES
BALLGEIER
BALLGEIER
CWOODS

AFELSER
NA
JJANSON
CWOODS

Sample Name: BAT-DW-11 180619
Lab Code: R1805705-009
Sample Matrix: Water

Date Collected: 06/19/18
Date Received: 06/19/18

Analysis Method
8260C
9056A
Organic Acids
RSK 175
SM 2320 B-1997(2011)

SM 3500-Fe B.4.c
SM 4500-CO2 D
SM 4500-H+ B

Extracted/Digested By

Analyzed By
DLIPANI
AMOSSES
BALLGEIER
BALLGEIER
CWOODS

AFELSER
NA
JJANSON

ALS Group USA, Corp.
dba ALS Environmental

Analyst Summary report

Client: APTIM, Inc
Project: Textron Injections/631236330

Service Request: R1805705

Sample Name: BAT-DW-11 180619
Lab Code: R1805705-009
Sample Matrix: Water

Date Collected: 06/19/18
Date Received: 06/19/18

Analysis Method
SM 5310 C-2000(2011)

Extracted/Digested By

Analyzed By
CWOODS

Sample Name: BAT-B-14 (1) 180619
Lab Code: R1805705-010
Sample Matrix: Water

Date Collected: 06/19/18
Date Received: 06/19/18

Analysis Method

8260C
9056A
Organic Acids
RSK 175
SM 2320 B-1997(2011)
SM 3500-Fe B.4.c
SM 4500-CO2 D
SM 4500-H+ B
SM 5310 C-2000(2011)

Extracted/Digested By

Analyzed By
DLIPANI
AMOSSES
BALLGEIER
BALLGEIER
CWOODS
AFELSER
NA
JJANSON
CWOODS

Sample Name: BAT-87-09 (1) 180619
Lab Code: R1805705-011
Sample Matrix: Water

Date Collected: 06/19/18
Date Received: 06/19/18

Analysis Method

8260C
9056A
Organic Acids
RSK 175
SM 2320 B-1997(2011)
SM 3500-Fe B.4.c
SM 4500-CO2 D
SM 4500-H+ B
SM 5310 C-2000(2011)

Extracted/Digested By

Analyzed By
DLIPANI
AMOSSES
BALLGEIER
BALLGEIER
CWOODS
AFELSER
NA
JJANSON
CWOODS

ALS Group USA, Corp.
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Analyst Summary report

Client: APTIM, Inc
Project: Textron Injections/631236330

Service Request: R1805705

Sample Name: BAT-89-15 (1) 180620
Lab Code: R1805705-012
Sample Matrix: Water

Date Collected: 06/20/18
Date Received: 06/20/18

Analysis Method	Extracted/Digested By	Analyzed By
8260C		DLIPANI
9056A		AMOSSES
Organic Acids		BALLGEIER
RSK 175		BALLGEIER
SM 2320 B-1997(2011)		CWOODS
SM 3500-Fe B.4.c		MROGERSON
SM 4500-CO2 D		NA
SM 4500-H+ B		NA
SM 5310 C-2000(2011)		CWOODS

Sample Name: BAT-DW-10 180620
Lab Code: R1805705-013
Sample Matrix: Water

Date Collected: 06/20/18
Date Received: 06/20/18

Analysis Method	Extracted/Digested By	Analyzed By
8260C		DLIPANI
9056A		AMOSSES
Organic Acids		BALLGEIER
RSK 175		BALLGEIER
SM 2320 B-1997(2011)		CWOODS
SM 3500-Fe B.4.c		MROGERSON
SM 4500-CO2 D		NA
SM 4500-H+ B		NA
SM 5310 C-2000(2011)		CWOODS

Sample Name: BAT-87-08 (1) 180620
Lab Code: R1805705-014
Sample Matrix: Water

Date Collected: 06/20/18
Date Received: 06/20/18

Analysis Method	Extracted/Digested By	Analyzed By
8260C		DLIPANI
9056A		AMOSSES

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Analyst Summary report

Client: APTIM, Inc
Project: Textron Injections/631236330

Service Request: R1805705

Sample Name: BAT-87-08 (1) 180620
Lab Code: R1805705-014
Sample Matrix: Water

Date Collected: 06/20/18
Date Received: 06/20/18

Analysis Method	Extracted/Digested By	Analyzed By
Organic Acids		BALLGEIER
RSK 175		BALLGEIER
SM 2320 B-1997(2011)		CWOODS
SM 3500-Fe B.4.c		MROGERSON
SM 4500-CO2 D		NA
SM 4500-H+ B		NA
SM 5310 C-2000(2011)		CWOODS

Sample Name: BAT-DW-9 180620
Lab Code: R1805705-015
Sample Matrix: Water

Date Collected: 06/20/18
Date Received: 06/20/18

Analysis Method	Extracted/Digested By	Analyzed By
8260C		DLIPANI
9056A		AMOSSES
Organic Acids		BALLGEIER
RSK 175		BALLGEIER
SM 2320 B-1997(2011)		CWOODS
SM 3500-Fe B.4.c		MROGERSON
SM 4500-CO2 D		NA
SM 4500-H+ B		NA
SM 5310 C-2000(2011)		CWOODS

Sample Name: BAT-B-10A (1) 180620
Lab Code: R1805705-016
Sample Matrix: Water

Date Collected: 06/20/18
Date Received: 06/20/18

Analysis Method	Extracted/Digested By	Analyzed By
8260C		DLIPANI
9056A		AMOSSES
Organic Acids		BALLGEIER
RSK 175		BALLGEIER

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Analyst Summary report

Client: APTIM, Inc
Project: Textron Injections/631236330

Service Request: R1805705

Sample Name: BAT-B-10A (1) 180620
Lab Code: R1805705-016
Sample Matrix: Water

Date Collected: 06/20/18
Date Received: 06/20/18

Analysis Method	Extracted/Digested By	Analyzed By
SM 2320 B-1997(2011)		CWOODS
SM 3500-Fe B.4.c		MROGERSON
SM 4500-CO2 D		NA
SM 4500-H+ B		NA
SM 5310 C-2000(2011)		CWOODS

Sample Name: BAT-87-13 (1) 180620
Lab Code: R1805705-017
Sample Matrix: Water

Date Collected: 06/20/18
Date Received: 06/20/18

Analysis Method	Extracted/Digested By	Analyzed By
8260C		DLIPANI
9056A		AMOSSES
Organic Acids		BALLGEIER
RSK 175		BALLGEIER
SM 2320 B-1997(2011)		CWOODS
SM 3500-Fe B.4.c		MROGERSON
SM 4500-CO2 D		NA
SM 4500-H+ B		NA
SM 5310 C-2000(2011)		CWOODS

Sample Name: BAT-87-17 (1) 180620
Lab Code: R1805705-018
Sample Matrix: Water

Date Collected: 06/20/18
Date Received: 06/20/18

Analysis Method	Extracted/Digested By	Analyzed By
8260C		DLIPANI
9056A		AMOSSES
Organic Acids		BALLGEIER
RSK 175		BALLGEIER
SM 2320 B-1997(2011)		CWOODS
SM 3500-Fe B.4.c		MROGERSON

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Analyst Summary report

Client: APTIM, Inc
Project: Textron Injections/631236330

Service Request: R1805705

Sample Name: BAT-87-17 (1) 180620
Lab Code: R1805705-018
Sample Matrix: Water

Date Collected: 06/20/18
Date Received: 06/20/18

Analysis Method
SM 4500-CO2 D
SM 4500-H+ B
SM 5310 C-2000(2011)

Extracted/Digested By

Analyzed By

NA

NA

CWOODS



INORGANIC PREPARATION METHODS

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

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1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623
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Analytical Report

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

Service Request: R1805705
Date Collected: 06/19/18 09:30
Date Received: 06/19/18 17:30

Sample Name: BAT-87-02 (1) 180619
Lab Code: R1805705-001

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.28	1	06/28/18 15:32	
Vinyl Chloride	85	1.0	0.22	1	06/28/18 15:32	
Chloroethane	1.0 U	1.0	0.23	1	06/28/18 15:32	
Bromomethane	1.0 U	1.0	0.70	1	06/28/18 15:32	
1,1-Dichloroethene	1.0 U	1.0	0.28	1	06/28/18 15:32	
Acetone	3.3 J	5.0	2.1	1	06/28/18 15:32	
Carbon Disulfide	19	1.0	0.31	1	06/28/18 15:32	
Methylene Chloride	1.7	1.0	0.47	1	06/28/18 15:32	
trans-1,2-Dichloroethene	4.6	1.0	0.26	1	06/28/18 15:32	
1,1-Dichloroethane	12	1.0	0.20	1	06/28/18 15:32	
cis-1,2-Dichloroethene	50	1.0	0.26	1	06/28/18 15:32	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	06/28/18 15:32	
Chloroform	1.0 U	1.0	0.28	1	06/28/18 15:32	
1,1,1-Trichloroethane	18	1.0	0.25	1	06/28/18 15:32	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	06/28/18 15:32	
Benzene	1.0 U	1.0	0.20	1	06/28/18 15:32	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	06/28/18 15:32	
Trichloroethene	3.9	1.0	0.20	1	06/28/18 15:32	
1,2-Dichloropropane	1.0 U	1.0	0.21	1	06/28/18 15:32	
Bromodichloromethane	1.0 U	1.0	0.31	1	06/28/18 15:32	
cis-1,3-Dichloropropene	1.0 U	1.0	0.30	1	06/28/18 15:32	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.29	1	06/28/18 15:32	
Toluene	0.22 J	1.0	0.20	1	06/28/18 15:32	
trans-1,3-Dichloropropene	1.0 U	1.0	0.30	1	06/28/18 15:32	
1,1,2-Trichloroethane	1.0 U	1.0	0.25	1	06/28/18 15:32	
Tetrachloroethene	1.0 U	1.0	0.28	1	06/28/18 15:32	
2-Hexanone	5.0 U	5.0	0.34	1	06/28/18 15:32	
Dibromochloromethane	1.0 U	1.0	0.20	1	06/28/18 15:32	
Chlorobenzene	1.0 U	1.0	0.20	1	06/28/18 15:32	
Ethylbenzene	1.0 U	1.0	0.20	1	06/28/18 15:32	
m,p-Xylenes	2.0 U	2.0	0.21	1	06/28/18 15:32	
o-Xylene	1.0 U	1.0	0.20	1	06/28/18 15:32	
Styrene	1.0 U	1.0	0.20	1	06/28/18 15:32	
Bromoform	1.0 U	1.0	0.36	1	06/28/18 15:32	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/28/18 15:32	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-87-02 (1) 180619
Lab Code: R1805705-001

Service Request: R1805705
Date Collected: 06/19/18 09:30
Date Received: 06/19/18 17:30
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	89	85 - 122	06/28/18 15:32	
Toluene-d8	98	87 - 121	06/28/18 15:32	
Dibromofluoromethane	99	89 - 119	06/28/18 15:32	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-87-01 (1) 180619
Lab Code: R1805705-002

Service Request: R1805705
Date Collected: 06/19/18 10:05
Date Received: 06/19/18 17:30

Units: ug/L
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	0.28	1	06/27/18 13:38	
Vinyl Chloride	300 D	5.0	1.1	5	06/27/18 18:33	
Chloroethane	1.0 U	1.0	0.23	1	06/27/18 13:38	
Bromomethane	1.0 U	1.0	0.70	1	06/27/18 13:38	
1,1-Dichloroethene	1.9	1.0	0.28	1	06/27/18 13:38	
Acetone	5.0 U	5.0	2.1	1	06/27/18 13:38	
Carbon Disulfide	8.5	1.0	0.31	1	06/27/18 13:38	
Methylene Chloride	6.3	1.0	0.47	1	06/27/18 13:38	
trans-1,2-Dichloroethene	4.9	1.0	0.26	1	06/27/18 13:38	
1,1-Dichloroethane	12	1.0	0.20	1	06/27/18 13:38	
cis-1,2-Dichloroethene	520 D	5.0	1.3	5	06/27/18 18:33	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	06/27/18 13:38	
Chloroform	0.34 J	1.0	0.28	1	06/27/18 13:38	
1,1,1-Trichloroethane	9.9	1.0	0.25	1	06/27/18 13:38	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	06/27/18 13:38	
Benzene	1.0 U	1.0	0.20	1	06/27/18 13:38	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	06/27/18 13:38	
Trichloroethene	98	1.0	0.20	1	06/27/18 13:38	
1,2-Dichloropropane	1.0 U	1.0	0.21	1	06/27/18 13:38	
Bromodichloromethane	1.0 U	1.0	0.31	1	06/27/18 13:38	
cis-1,3-Dichloropropene	1.0 U	1.0	0.30	1	06/27/18 13:38	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.29	1	06/27/18 13:38	
Toluene	0.24 J	1.0	0.20	1	06/27/18 13:38	
trans-1,3-Dichloropropene	1.0 U	1.0	0.30	1	06/27/18 13:38	
1,1,2-Trichloroethane	1.0 U	1.0	0.25	1	06/27/18 13:38	
Tetrachloroethene	1.0 U	1.0	0.28	1	06/27/18 13:38	
2-Hexanone	5.0 U	5.0	0.34	1	06/27/18 13:38	
Dibromochloromethane	1.0 U	1.0	0.20	1	06/27/18 13:38	
Chlorobenzene	1.0 U	1.0	0.20	1	06/27/18 13:38	
Ethylbenzene	1.0 U	1.0	0.20	1	06/27/18 13:38	
m,p-Xylenes	2.0 U	2.0	0.21	1	06/27/18 13:38	
o-Xylene	1.0 U	1.0	0.20	1	06/27/18 13:38	
Styrene	1.0 U	1.0	0.20	1	06/27/18 13:38	
Bromoform	1.0 U	1.0	0.36	1	06/27/18 13:38	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/27/18 13:38	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-87-01 (1) 180619
Lab Code: R1805705-002

Service Request: R1805705
Date Collected: 06/19/18 10:05
Date Received: 06/19/18 17:30
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	06/27/18 13:38	
Toluene-d8	103	87 - 121	06/27/18 13:38	
Dibromofluoromethane	105	89 - 119	06/27/18 13:38	

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Analytical Report

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

Service Request: R1805705
Date Collected: 06/19/18 10:35
Date Received: 06/19/18 17:30

Sample Name: BAT-87-12 (1) 180619
Lab Code: R1805705-003

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	10 U	10	2.8	10	06/27/18 14:27	
Vinyl Chloride	1100	10	2.2	10	06/27/18 14:27	
Chloroethane	10 U	10	2.3	10	06/27/18 14:27	
Bromomethane	10 U	10	7.0	10	06/27/18 14:27	
1,1-Dichloroethene	5.2 J	10	2.8	10	06/27/18 14:27	
Acetone	50 U	50	21	10	06/27/18 14:27	
Carbon Disulfide	21	10	3.1	10	06/27/18 14:27	
Methylene Chloride	410	10	4.7	10	06/27/18 14:27	
trans-1,2-Dichloroethene	7.4 J	10	2.6	10	06/27/18 14:27	
1,1-Dichloroethane	27	10	2.0	10	06/27/18 14:27	
cis-1,2-Dichloroethene	1200	10	2.6	10	06/27/18 14:27	
2-Butanone (MEK)	50 U	50	7.8	10	06/27/18 14:27	
Chloroform	10 U	10	2.8	10	06/27/18 14:27	
1,1,1-Trichloroethane	31	10	2.5	10	06/27/18 14:27	
Carbon Tetrachloride	10 U	10	3.4	10	06/27/18 14:27	
Benzene	10 U	10	2.0	10	06/27/18 14:27	
1,2-Dichloroethane	10 U	10	2.0	10	06/27/18 14:27	
Trichloroethene	76	10	2.0	10	06/27/18 14:27	
1,2-Dichloropropane	10 U	10	2.1	10	06/27/18 14:27	
Bromodichloromethane	10 U	10	3.1	10	06/27/18 14:27	
cis-1,3-Dichloropropene	10 U	10	3.0	10	06/27/18 14:27	
4-Methyl-2-pentanone (MIBK)	50 U	50	2.9	10	06/27/18 14:27	
Toluene	10 U	10	2.0	10	06/27/18 14:27	
trans-1,3-Dichloropropene	10 U	10	3.0	10	06/27/18 14:27	
1,1,2-Trichloroethane	10 U	10	2.5	10	06/27/18 14:27	
Tetrachloroethene	10 U	10	2.8	10	06/27/18 14:27	
2-Hexanone	50 U	50	3.4	10	06/27/18 14:27	
Dibromochloromethane	10 U	10	2.0	10	06/27/18 14:27	
Chlorobenzene	10 U	10	2.0	10	06/27/18 14:27	
Ethylbenzene	10 U	10	2.0	10	06/27/18 14:27	
m,p-Xylenes	20 U	20	2.1	10	06/27/18 14:27	
o-Xylene	10 U	10	2.0	10	06/27/18 14:27	
Styrene	10 U	10	2.0	10	06/27/18 14:27	
Bromoform	10 U	10	3.6	10	06/27/18 14:27	
1,1,2,2-Tetrachloroethane	10 U	10	2.0	10	06/27/18 14:27	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-87-12 (1) 180619
Lab Code: R1805705-003

Service Request: R1805705
Date Collected: 06/19/18 10:35
Date Received: 06/19/18 17:30
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	06/27/18 14:27	
Toluene-d8	100	87 - 121	06/27/18 14:27	
Dibromofluoromethane	102	89 - 119	06/27/18 14:27	

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Analytical Report

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

Service Request: R1805705
Date Collected: 06/19/18 11:10
Date Received: 06/19/18 17:30

Sample Name: BAT-89-12 (1) 180619
Lab Code: R1805705-004

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	2.0 U	2.0	0.56	2	06/27/18 14:03	
Vinyl Chloride	230	2.0	0.44	2	06/27/18 14:03	
Chloroethane	2.0 U	2.0	0.46	2	06/27/18 14:03	
Bromomethane	2.0 U	2.0	1.4	2	06/27/18 14:03	
1,1-Dichloroethene	0.64 J	2.0	0.56	2	06/27/18 14:03	
Acetone	10 U	10	4.2	2	06/27/18 14:03	
Carbon Disulfide	4.6	2.0	0.62	2	06/27/18 14:03	
Methylene Chloride	2.0 U	2.0	0.94	2	06/27/18 14:03	
trans-1,2-Dichloroethene	3.0	2.0	0.52	2	06/27/18 14:03	
1,1-Dichloroethane	11	2.0	0.40	2	06/27/18 14:03	
cis-1,2-Dichloroethene	180	2.0	0.52	2	06/27/18 14:03	
2-Butanone (MEK)	10 U	10	1.6	2	06/27/18 14:03	
Chloroform	2.0 U	2.0	0.56	2	06/27/18 14:03	
1,1,1-Trichloroethane	18	2.0	0.50	2	06/27/18 14:03	
Carbon Tetrachloride	2.0 U	2.0	0.68	2	06/27/18 14:03	
Benzene	2.0 U	2.0	0.40	2	06/27/18 14:03	
1,2-Dichloroethane	2.0 U	2.0	0.40	2	06/27/18 14:03	
Trichloroethene	16	2.0	0.40	2	06/27/18 14:03	
1,2-Dichloropropane	2.0 U	2.0	0.42	2	06/27/18 14:03	
Bromodichloromethane	2.0 U	2.0	0.62	2	06/27/18 14:03	
cis-1,3-Dichloropropene	2.0 U	2.0	0.60	2	06/27/18 14:03	
4-Methyl-2-pentanone (MIBK)	10 U	10	0.58	2	06/27/18 14:03	
Toluene	2.0 U	2.0	0.40	2	06/27/18 14:03	
trans-1,3-Dichloropropene	2.0 U	2.0	0.60	2	06/27/18 14:03	
1,1,2-Trichloroethane	2.0 U	2.0	0.50	2	06/27/18 14:03	
Tetrachloroethene	2.0 U	2.0	0.56	2	06/27/18 14:03	
2-Hexanone	10 U	10	0.68	2	06/27/18 14:03	
Dibromochloromethane	2.0 U	2.0	0.40	2	06/27/18 14:03	
Chlorobenzene	2.0 U	2.0	0.40	2	06/27/18 14:03	
Ethylbenzene	2.0 U	2.0	0.40	2	06/27/18 14:03	
m,p-Xylenes	4.0 U	4.0	0.42	2	06/27/18 14:03	
o-Xylene	2.0 U	2.0	0.40	2	06/27/18 14:03	
Styrene	2.0 U	2.0	0.40	2	06/27/18 14:03	
Bromoform	2.0 U	2.0	0.72	2	06/27/18 14:03	
1,1,2,2-Tetrachloroethane	2.0 U	2.0	0.40	2	06/27/18 14:03	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-89-12 (1) 180619
Lab Code: R1805705-004

Service Request: R1805705
Date Collected: 06/19/18 11:10
Date Received: 06/19/18 17:30
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85 - 122	06/27/18 14:03	
Toluene-d8	101	87 - 121	06/27/18 14:03	
Dibromofluoromethane	100	89 - 119	06/27/18 14:03	

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Analytical Report

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

Service Request: R1805705
Date Collected: 06/19/18 11:30
Date Received: 06/19/18 17:30

Sample Name: BAT-DW-12 180619
Lab Code: R1805705-005

Units: ug/L
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	0.28	1	06/27/18 11:25	
Vinyl Chloride	0.51 J	1.0	0.22	1	06/27/18 11:25	
Chloroethane	1.0 U	1.0	0.23	1	06/27/18 11:25	
Bromomethane	1.0 U	1.0	0.70	1	06/27/18 11:25	
1,1-Dichloroethene	1.0 U	1.0	0.28	1	06/27/18 11:25	
Acetone	5.0 U	5.0	2.1	1	06/27/18 11:25	
Carbon Disulfide	1.0 U	1.0	0.31	1	06/27/18 11:25	
Methylene Chloride	1.0 U	1.0	0.47	1	06/27/18 11:25	
trans-1,2-Dichloroethene	1.0 U	1.0	0.26	1	06/27/18 11:25	
1,1-Dichloroethane	1.3	1.0	0.20	1	06/27/18 11:25	
cis-1,2-Dichloroethene	7.5	1.0	0.26	1	06/27/18 11:25	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	06/27/18 11:25	
Chloroform	1.0 U	1.0	0.28	1	06/27/18 11:25	
1,1,1-Trichloroethane	1.0 U	1.0	0.25	1	06/27/18 11:25	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	06/27/18 11:25	
Benzene	1.0 U	1.0	0.20	1	06/27/18 11:25	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	06/27/18 11:25	
Trichloroethene	1.3	1.0	0.20	1	06/27/18 11:25	
1,2-Dichloropropane	1.0 U	1.0	0.21	1	06/27/18 11:25	
Bromodichloromethane	1.0 U	1.0	0.31	1	06/27/18 11:25	
cis-1,3-Dichloropropene	1.0 U	1.0	0.30	1	06/27/18 11:25	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.29	1	06/27/18 11:25	
Toluene	1.0 U	1.0	0.20	1	06/27/18 11:25	
trans-1,3-Dichloropropene	1.0 U	1.0	0.30	1	06/27/18 11:25	
1,1,2-Trichloroethane	1.0 U	1.0	0.25	1	06/27/18 11:25	
Tetrachloroethene	1.0 U	1.0	0.28	1	06/27/18 11:25	
2-Hexanone	5.0 U	5.0	0.34	1	06/27/18 11:25	
Dibromochloromethane	1.0 U	1.0	0.20	1	06/27/18 11:25	
Chlorobenzene	1.0 U	1.0	0.20	1	06/27/18 11:25	
Ethylbenzene	1.0 U	1.0	0.20	1	06/27/18 11:25	
m,p-Xylenes	2.0 U	2.0	0.21	1	06/27/18 11:25	
o-Xylene	1.0 U	1.0	0.20	1	06/27/18 11:25	
Styrene	1.0 U	1.0	0.20	1	06/27/18 11:25	
Bromoform	1.0 U	1.0	0.36	1	06/27/18 11:25	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/27/18 11:25	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-DW-12 180619
Lab Code: R1805705-005

Service Request: R1805705
Date Collected: 06/19/18 11:30
Date Received: 06/19/18 17:30
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85 - 122	06/27/18 11:25	
Toluene-d8	100	87 - 121	06/27/18 11:25	
Dibromofluoromethane	97	89 - 119	06/27/18 11:25	

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Analytical Report

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

Service Request: R1805705
Date Collected: 06/19/18 12:00
Date Received: 06/19/18 17:30

Sample Name: BAT-89-10 (1) 180619
Lab Code: R1805705-006

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	50 U	50	14	50	06/27/18 16:40	
Vinyl Chloride	160	50	11	50	06/27/18 16:40	
Chloroethane	50 U	50	12	50	06/27/18 16:40	
Bromomethane	50 U	50	35	50	06/27/18 16:40	
1,1-Dichloroethene	50 U	50	14	50	06/27/18 16:40	
Acetone	250 U	250	110	50	06/27/18 16:40	
Carbon Disulfide	26 J	50	16	50	06/27/18 16:40	
Methylene Chloride	860	50	24	50	06/27/18 16:40	
trans-1,2-Dichloroethene	50 U	50	13	50	06/27/18 16:40	
1,1-Dichloroethane	13 J	50	10	50	06/27/18 16:40	
cis-1,2-Dichloroethene	1500	50	13	50	06/27/18 16:40	
2-Butanone (MEK)	250 U	250	39	50	06/27/18 16:40	
Chloroform	50 U	50	14	50	06/27/18 16:40	
1,1,1-Trichloroethane	44 J	50	13	50	06/27/18 16:40	
Carbon Tetrachloride	50 U	50	17	50	06/27/18 16:40	
Benzene	50 U	50	10	50	06/27/18 16:40	
1,2-Dichloroethane	50 U	50	10	50	06/27/18 16:40	
Trichloroethene	7200	50	10	50	06/27/18 16:40	
1,2-Dichloropropane	50 U	50	11	50	06/27/18 16:40	
Bromodichloromethane	50 U	50	16	50	06/27/18 16:40	
cis-1,3-Dichloropropene	50 U	50	15	50	06/27/18 16:40	
4-Methyl-2-pentanone (MIBK)	250 U	250	15	50	06/27/18 16:40	
Toluene	50 U	50	10	50	06/27/18 16:40	
trans-1,3-Dichloropropene	50 U	50	15	50	06/27/18 16:40	
1,1,2-Trichloroethane	50 U	50	13	50	06/27/18 16:40	
Tetrachloroethene	50 U	50	14	50	06/27/18 16:40	
2-Hexanone	250 U	250	17	50	06/27/18 16:40	
Dibromochloromethane	50 U	50	10	50	06/27/18 16:40	
Chlorobenzene	50 U	50	10	50	06/27/18 16:40	
Ethylbenzene	50 U	50	10	50	06/27/18 16:40	
m,p-Xylenes	100 U	100	11	50	06/27/18 16:40	
o-Xylene	50 U	50	10	50	06/27/18 16:40	
Styrene	50 U	50	10	50	06/27/18 16:40	
Bromoform	50 U	50	18	50	06/27/18 16:40	
1,1,2,2-Tetrachloroethane	50 U	50	10	50	06/27/18 16:40	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-89-10 (1) 180619
Lab Code: R1805705-006

Service Request: R1805705
Date Collected: 06/19/18 12:00
Date Received: 06/19/18 17:30
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85 - 122	06/27/18 16:40	
Toluene-d8	101	87 - 121	06/27/18 16:40	
Dibromofluoromethane	98	89 - 119	06/27/18 16:40	

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Analytical Report

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

Service Request: R1805705
Date Collected: 06/19/18 13:25
Date Received: 06/19/18 17:30

Sample Name: BAT-87-20 (1) 180619
Lab Code: R1805705-007

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	10 U	10	2.8	10	06/28/18 13:22	
Vinyl Chloride	440	10	2.2	10	06/28/18 13:22	
Chloroethane	10 U	10	2.3	10	06/28/18 13:22	
Bromomethane	10 U	10	7.0	10	06/28/18 13:22	
1,1-Dichloroethene	3.8 J	10	2.8	10	06/28/18 13:22	
Acetone	50 U	50	21	10	06/28/18 13:22	
Carbon Disulfide	10 U	10	3.1	10	06/28/18 13:22	
Methylene Chloride	10 U	10	4.7	10	06/28/18 13:22	
trans-1,2-Dichloroethene	4.3 J	10	2.6	10	06/28/18 13:22	
1,1-Dichloroethane	5.1 J	10	2.0	10	06/28/18 13:22	
cis-1,2-Dichloroethene	1200	10	2.6	10	06/28/18 13:22	
2-Butanone (MEK)	50 U	50	7.8	10	06/28/18 13:22	
Chloroform	10 U	10	2.8	10	06/28/18 13:22	
1,1,1-Trichloroethane	6.4 J	10	2.5	10	06/28/18 13:22	
Carbon Tetrachloride	10 U	10	3.4	10	06/28/18 13:22	
Benzene	10 U	10	2.0	10	06/28/18 13:22	
1,2-Dichloroethane	10 U	10	2.0	10	06/28/18 13:22	
Trichloroethene	24	10	2.0	10	06/28/18 13:22	
1,2-Dichloropropane	10 U	10	2.1	10	06/28/18 13:22	
Bromodichloromethane	10 U	10	3.1	10	06/28/18 13:22	
cis-1,3-Dichloropropene	10 U	10	3.0	10	06/28/18 13:22	
4-Methyl-2-pentanone (MIBK)	50 U	50	2.9	10	06/28/18 13:22	
Toluene	10 U	10	2.0	10	06/28/18 13:22	
trans-1,3-Dichloropropene	10 U	10	3.0	10	06/28/18 13:22	
1,1,2-Trichloroethane	10 U	10	2.5	10	06/28/18 13:22	
Tetrachloroethene	10 U	10	2.8	10	06/28/18 13:22	
2-Hexanone	50 U	50	3.4	10	06/28/18 13:22	
Dibromochloromethane	10 U	10	2.0	10	06/28/18 13:22	
Chlorobenzene	10 U	10	2.0	10	06/28/18 13:22	
Ethylbenzene	10 U	10	2.0	10	06/28/18 13:22	
m,p-Xylenes	20 U	20	2.1	10	06/28/18 13:22	
o-Xylene	10 U	10	2.0	10	06/28/18 13:22	
Styrene	10 U	10	2.0	10	06/28/18 13:22	
Bromoform	10 U	10	3.6	10	06/28/18 13:22	
1,1,2,2-Tetrachloroethane	10 U	10	2.0	10	06/28/18 13:22	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-87-20 (1) 180619
Lab Code: R1805705-007

Service Request: R1805705
Date Collected: 06/19/18 13:25
Date Received: 06/19/18 17:30
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85 - 122	06/28/18 13:22	
Toluene-d8	100	87 - 121	06/28/18 13:22	
Dibromofluoromethane	99	89 - 119	06/28/18 13:22	

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Analytical Report

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

Service Request: R1805705
Date Collected: 06/19/18 14:00
Date Received: 06/19/18 17:30

Sample Name: BAT-87-22 (1) 180619
Lab Code: R1805705-008

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	20 U	20	5.6	20	06/27/18 15:57	
Vinyl Chloride	1100	20	4.4	20	06/27/18 15:57	
Chloroethane	20 U	20	4.6	20	06/27/18 15:57	
Bromomethane	20 U	20	14	20	06/27/18 15:57	
1,1-Dichloroethene	20 U	20	5.6	20	06/27/18 15:57	
Acetone	100 U	100	42	20	06/27/18 15:57	
Carbon Disulfide	20 U	20	6.2	20	06/27/18 15:57	
Methylene Chloride	20 U	20	9.4	20	06/27/18 15:57	
trans-1,2-Dichloroethene	9.2 J	20	5.2	20	06/27/18 15:57	
1,1-Dichloroethane	7.8 J	20	4.0	20	06/27/18 15:57	
cis-1,2-Dichloroethene	2100	20	5.2	20	06/27/18 15:57	
2-Butanone (MEK)	100 U	100	16	20	06/27/18 15:57	
Chloroform	20 U	20	5.6	20	06/27/18 15:57	
1,1,1-Trichloroethane	20 U	20	5.0	20	06/27/18 15:57	
Carbon Tetrachloride	20 U	20	6.8	20	06/27/18 15:57	
Benzene	20 U	20	4.0	20	06/27/18 15:57	
1,2-Dichloroethane	20 U	20	4.0	20	06/27/18 15:57	
Trichloroethene	9.8 J	20	4.0	20	06/27/18 15:57	
1,2-Dichloropropane	20 U	20	4.2	20	06/27/18 15:57	
Bromodichloromethane	20 U	20	6.2	20	06/27/18 15:57	
cis-1,3-Dichloropropene	20 U	20	6.0	20	06/27/18 15:57	
4-Methyl-2-pentanone (MIBK)	100 U	100	5.8	20	06/27/18 15:57	
Toluene	20 U	20	4.0	20	06/27/18 15:57	
trans-1,3-Dichloropropene	20 U	20	6.0	20	06/27/18 15:57	
1,1,2-Trichloroethane	20 U	20	5.0	20	06/27/18 15:57	
Tetrachloroethene	20 U	20	5.6	20	06/27/18 15:57	
2-Hexanone	100 U	100	6.8	20	06/27/18 15:57	
Dibromochloromethane	20 U	20	4.0	20	06/27/18 15:57	
Chlorobenzene	20 U	20	4.0	20	06/27/18 15:57	
Ethylbenzene	20 U	20	4.0	20	06/27/18 15:57	
m,p-Xylenes	40 U	40	4.2	20	06/27/18 15:57	
o-Xylene	20 U	20	4.0	20	06/27/18 15:57	
Styrene	20 U	20	4.0	20	06/27/18 15:57	
Bromoform	20 U	20	7.2	20	06/27/18 15:57	
1,1,2,2-Tetrachloroethane	20 U	20	4.0	20	06/27/18 15:57	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-87-22 (1) 180619
Lab Code: R1805705-008

Service Request: R1805705
Date Collected: 06/19/18 14:00
Date Received: 06/19/18 17:30
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	95	85 - 122	06/27/18 15:57	
Toluene-d8	101	87 - 121	06/27/18 15:57	
Dibromofluoromethane	101	89 - 119	06/27/18 15:57	

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Analytical Report

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

Service Request: R1805705
Date Collected: 06/19/18 14:30
Date Received: 06/19/18 17:30

Sample Name: BAT-DW-11 180619
Lab Code: R1805705-009

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	5.0 U	5.0	1.4	5	06/28/18 13:43	
Vinyl Chloride	59	5.0	1.1	5	06/28/18 13:43	
Chloroethane	5.0 U	5.0	1.2	5	06/28/18 13:43	
Bromomethane	5.0 U	5.0	3.5	5	06/28/18 13:43	
1,1-Dichloroethene	1.4 J	5.0	1.4	5	06/28/18 13:43	
Acetone	22 J	25	11	5	06/28/18 13:43	
Carbon Disulfide	13	5.0	1.6	5	06/28/18 13:43	
Methylene Chloride	180	5.0	2.4	5	06/28/18 13:43	
trans-1,2-Dichloroethene	1.7 J	5.0	1.3	5	06/28/18 13:43	
1,1-Dichloroethane	3.4 J	5.0	1.0	5	06/28/18 13:43	
cis-1,2-Dichloroethene	630	5.0	1.3	5	06/28/18 13:43	
2-Butanone (MEK)	25 U	25	3.9	5	06/28/18 13:43	
Chloroform	2.7 J	5.0	1.4	5	06/28/18 13:43	
1,1,1-Trichloroethane	7.8	5.0	1.3	5	06/28/18 13:43	
Carbon Tetrachloride	5.0 U	5.0	1.7	5	06/28/18 13:43	
Benzene	5.0 U	5.0	1.0	5	06/28/18 13:43	
1,2-Dichloroethane	5.0 U	5.0	1.0	5	06/28/18 13:43	
Trichloroethene	180	5.0	1.0	5	06/28/18 13:43	
1,2-Dichloropropane	5.0 U	5.0	1.1	5	06/28/18 13:43	
Bromodichloromethane	5.0 U	5.0	1.6	5	06/28/18 13:43	
cis-1,3-Dichloropropene	5.0 U	5.0	1.5	5	06/28/18 13:43	
4-Methyl-2-pentanone (MIBK)	25 U	25	1.5	5	06/28/18 13:43	
Toluene	5.0 U	5.0	1.0	5	06/28/18 13:43	
trans-1,3-Dichloropropene	5.0 U	5.0	1.5	5	06/28/18 13:43	
1,1,2-Trichloroethane	5.0 U	5.0	1.3	5	06/28/18 13:43	
Tetrachloroethene	5.0 U	5.0	1.4	5	06/28/18 13:43	
2-Hexanone	25 U	25	1.7	5	06/28/18 13:43	
Dibromochloromethane	5.0 U	5.0	1.0	5	06/28/18 13:43	
Chlorobenzene	5.0 U	5.0	1.0	5	06/28/18 13:43	
Ethylbenzene	5.0 U	5.0	1.0	5	06/28/18 13:43	
m,p-Xylenes	10 U	10	1.1	5	06/28/18 13:43	
o-Xylene	5.0 U	5.0	1.0	5	06/28/18 13:43	
Styrene	5.0 U	5.0	1.0	5	06/28/18 13:43	
Bromoform	5.0 U	5.0	1.8	5	06/28/18 13:43	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1.0	5	06/28/18 13:43	

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Analytical Report

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

Service Request: R1805705
Date Collected: 06/19/18 14:30
Date Received: 06/19/18 17:30

Sample Name: BAT-DW-11 180619
Lab Code: R1805705-009

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85 - 122	06/28/18 13:43	
Toluene-d8	99	87 - 121	06/28/18 13:43	
Dibromofluoromethane	97	89 - 119	06/28/18 13:43	

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Analytical Report

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

Service Request: R1805705
Date Collected: 06/19/18 15:00
Date Received: 06/19/18 17:30

Sample Name: BAT-B-14 (1) 180619
Lab Code: R1805705-010

Units: ug/L
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	0.28	1	06/27/18 12:08	
Vinyl Chloride	170	1.0	0.22	1	06/27/18 12:08	
Chloroethane	1.0 U	1.0	0.23	1	06/27/18 12:08	
Bromomethane	1.0 U	1.0	0.70	1	06/27/18 12:08	
1,1-Dichloroethene	0.93 J	1.0	0.28	1	06/27/18 12:08	
Acetone	5.0 U	5.0	2.1	1	06/27/18 12:08	
Carbon Disulfide	1.0 U	1.0	0.31	1	06/27/18 12:08	
Methylene Chloride	1.0 U	1.0	0.47	1	06/27/18 12:08	
trans-1,2-Dichloroethene	1.3	1.0	0.26	1	06/27/18 12:08	
1,1-Dichloroethane	17	1.0	0.20	1	06/27/18 12:08	
cis-1,2-Dichloroethene	97	1.0	0.26	1	06/27/18 12:08	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	06/27/18 12:08	
Chloroform	1.0 U	1.0	0.28	1	06/27/18 12:08	
1,1,1-Trichloroethane	64	1.0	0.25	1	06/27/18 12:08	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	06/27/18 12:08	
Benzene	1.0 U	1.0	0.20	1	06/27/18 12:08	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	06/27/18 12:08	
Trichloroethene	1.5	1.0	0.20	1	06/27/18 12:08	
1,2-Dichloropropane	1.0 U	1.0	0.21	1	06/27/18 12:08	
Bromodichloromethane	1.0 U	1.0	0.31	1	06/27/18 12:08	
cis-1,3-Dichloropropene	1.0 U	1.0	0.30	1	06/27/18 12:08	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.29	1	06/27/18 12:08	
Toluene	1.0 U	1.0	0.20	1	06/27/18 12:08	
trans-1,3-Dichloropropene	1.0 U	1.0	0.30	1	06/27/18 12:08	
1,1,2-Trichloroethane	1.0 U	1.0	0.25	1	06/27/18 12:08	
Tetrachloroethene	1.0 U	1.0	0.28	1	06/27/18 12:08	
2-Hexanone	5.0 U	5.0	0.34	1	06/27/18 12:08	
Dibromochloromethane	1.0 U	1.0	0.20	1	06/27/18 12:08	
Chlorobenzene	1.0 U	1.0	0.20	1	06/27/18 12:08	
Ethylbenzene	1.0 U	1.0	0.20	1	06/27/18 12:08	
m,p-Xylenes	2.0 U	2.0	0.21	1	06/27/18 12:08	
o-Xylene	1.0 U	1.0	0.20	1	06/27/18 12:08	
Styrene	1.0 U	1.0	0.20	1	06/27/18 12:08	
Bromoform	1.0 U	1.0	0.36	1	06/27/18 12:08	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/27/18 12:08	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-B-14 (1) 180619
Lab Code: R1805705-010

Service Request: R1805705
Date Collected: 06/19/18 15:00
Date Received: 06/19/18 17:30
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85 - 122	06/27/18 12:08	
Toluene-d8	99	87 - 121	06/27/18 12:08	
Dibromofluoromethane	102	89 - 119	06/27/18 12:08	

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Analytical Report

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

Service Request: R1805705
Date Collected: 06/19/18 15:35
Date Received: 06/19/18 17:30

Sample Name: BAT-87-09 (1) 180619
Lab Code: R1805705-011

Units: ug/L
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	0.28	1	06/27/18 12:30	
Vinyl Chloride	150	1.0	0.22	1	06/27/18 12:30	
Chloroethane	1.0 U	1.0	0.23	1	06/27/18 12:30	
Bromomethane	1.0 U	1.0	0.70	1	06/27/18 12:30	
1,1-Dichloroethene	1.1	1.0	0.28	1	06/27/18 12:30	
Acetone	5.0 U	5.0	2.1	1	06/27/18 12:30	
Carbon Disulfide	1.4	1.0	0.31	1	06/27/18 12:30	
Methylene Chloride	1.0 U	1.0	0.47	1	06/27/18 12:30	
trans-1,2-Dichloroethene	1.4	1.0	0.26	1	06/27/18 12:30	
1,1-Dichloroethane	16	1.0	0.20	1	06/27/18 12:30	
cis-1,2-Dichloroethene	130	1.0	0.26	1	06/27/18 12:30	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	06/27/18 12:30	
Chloroform	1.0 U	1.0	0.28	1	06/27/18 12:30	
1,1,1-Trichloroethane	81	1.0	0.25	1	06/27/18 12:30	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	06/27/18 12:30	
Benzene	1.0 U	1.0	0.20	1	06/27/18 12:30	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	06/27/18 12:30	
Trichloroethene	1.6	1.0	0.20	1	06/27/18 12:30	
1,2-Dichloropropane	1.0 U	1.0	0.21	1	06/27/18 12:30	
Bromodichloromethane	1.0 U	1.0	0.31	1	06/27/18 12:30	
cis-1,3-Dichloropropene	1.0 U	1.0	0.30	1	06/27/18 12:30	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.29	1	06/27/18 12:30	
Toluene	1.0 U	1.0	0.20	1	06/27/18 12:30	
trans-1,3-Dichloropropene	1.0 U	1.0	0.30	1	06/27/18 12:30	
1,1,2-Trichloroethane	1.0 U	1.0	0.25	1	06/27/18 12:30	
Tetrachloroethene	1.0 U	1.0	0.28	1	06/27/18 12:30	
2-Hexanone	5.0 U	5.0	0.34	1	06/27/18 12:30	
Dibromochloromethane	1.0 U	1.0	0.20	1	06/27/18 12:30	
Chlorobenzene	1.0 U	1.0	0.20	1	06/27/18 12:30	
Ethylbenzene	1.0 U	1.0	0.20	1	06/27/18 12:30	
m,p-Xylenes	2.0 U	2.0	0.21	1	06/27/18 12:30	
o-Xylene	1.0 U	1.0	0.20	1	06/27/18 12:30	
Styrene	1.0 U	1.0	0.20	1	06/27/18 12:30	
Bromoform	1.0 U	1.0	0.36	1	06/27/18 12:30	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/27/18 12:30	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-87-09 (1) 180619
Lab Code: R1805705-011

Service Request: R1805705
Date Collected: 06/19/18 15:35
Date Received: 06/19/18 17:30
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85 - 122	06/27/18 12:30	
Toluene-d8	101	87 - 121	06/27/18 12:30	
Dibromofluoromethane	104	89 - 119	06/27/18 12:30	

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Analytical Report

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

Service Request: R1805705
Date Collected: 06/20/18 10:35
Date Received: 06/20/18 16:08

Sample Name: BAT-89-15 (1) 180620
Lab Code: R1805705-012

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	5.0 U	5.0	1.4	5	06/28/18 14:05	
Vinyl Chloride	93	5.0	1.1	5	06/28/18 14:05	
Chloroethane	5.0 U	5.0	1.2	5	06/28/18 14:05	
Bromomethane	5.0 U	5.0	3.5	5	06/28/18 14:05	
1,1-Dichloroethene	5.0 U	5.0	1.4	5	06/28/18 14:05	
Acetone	25 U	25	11	5	06/28/18 14:05	
Carbon Disulfide	16	5.0	1.6	5	06/28/18 14:05	
Methylene Chloride	670	5.0	2.4	5	06/28/18 14:05	
trans-1,2-Dichloroethene	2.0 J	5.0	1.3	5	06/28/18 14:05	
1,1-Dichloroethane	3.8 J	5.0	1.0	5	06/28/18 14:05	
cis-1,2-Dichloroethene	150	5.0	1.3	5	06/28/18 14:05	
2-Butanone (MEK)	25 U	25	3.9	5	06/28/18 14:05	
Chloroform	5.0 U	5.0	1.4	5	06/28/18 14:05	
1,1,1-Trichloroethane	5.0 U	5.0	1.3	5	06/28/18 14:05	
Carbon Tetrachloride	5.0 U	5.0	1.7	5	06/28/18 14:05	
Benzene	5.0 U	5.0	1.0	5	06/28/18 14:05	
1,2-Dichloroethane	5.0 U	5.0	1.0	5	06/28/18 14:05	
Trichloroethene	110	5.0	1.0	5	06/28/18 14:05	
1,2-Dichloropropane	5.0 U	5.0	1.1	5	06/28/18 14:05	
Bromodichloromethane	5.0 U	5.0	1.6	5	06/28/18 14:05	
cis-1,3-Dichloropropene	5.0 U	5.0	1.5	5	06/28/18 14:05	
4-Methyl-2-pentanone (MIBK)	25 U	25	1.5	5	06/28/18 14:05	
Toluene	5.0 U	5.0	1.0	5	06/28/18 14:05	
trans-1,3-Dichloropropene	5.0 U	5.0	1.5	5	06/28/18 14:05	
1,1,2-Trichloroethane	5.0 U	5.0	1.3	5	06/28/18 14:05	
Tetrachloroethene	5.0 U	5.0	1.4	5	06/28/18 14:05	
2-Hexanone	25 U	25	1.7	5	06/28/18 14:05	
Dibromochloromethane	5.0 U	5.0	1.0	5	06/28/18 14:05	
Chlorobenzene	5.0 U	5.0	1.0	5	06/28/18 14:05	
Ethylbenzene	5.0 U	5.0	1.0	5	06/28/18 14:05	
m,p-Xylenes	10 U	10	1.1	5	06/28/18 14:05	
o-Xylene	5.0 U	5.0	1.0	5	06/28/18 14:05	
Styrene	5.0 U	5.0	1.0	5	06/28/18 14:05	
Bromoform	5.0 U	5.0	1.8	5	06/28/18 14:05	
1,1,2,2-Tetrachloroethane	5.0 U	5.0	1.0	5	06/28/18 14:05	

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Analytical Report

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

Service Request: R1805705
Date Collected: 06/20/18 10:35
Date Received: 06/20/18 16:08

Sample Name: BAT-89-15 (1) 180620
Lab Code: R1805705-012

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	97	85 - 122	06/28/18 14:05	
Toluene-d8	107	87 - 121	06/28/18 14:05	
Dibromofluoromethane	104	89 - 119	06/28/18 14:05	

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Analytical Report

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

Service Request: R1805705
Date Collected: 06/20/18 11:25
Date Received: 06/20/18 16:08

Sample Name: BAT-DW-10 180620
Lab Code: R1805705-013

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	50 U	50	14	50	06/27/18 17:28	
Vinyl Chloride	38 J	50	11	50	06/27/18 17:28	
Chloroethane	50 U	50	12	50	06/27/18 17:28	
Bromomethane	50 U	50	35	50	06/27/18 17:28	
1,1-Dichloroethene	50 U	50	14	50	06/27/18 17:28	
Acetone	250 U	250	110	50	06/27/18 17:28	
Carbon Disulfide	50 U	50	16	50	06/27/18 17:28	
Methylene Chloride	5100	50	24	50	06/27/18 17:28	
trans-1,2-Dichloroethene	50 U	50	13	50	06/27/18 17:28	
1,1-Dichloroethane	50 U	50	10	50	06/27/18 17:28	
cis-1,2-Dichloroethene	130	50	13	50	06/27/18 17:28	
2-Butanone (MEK)	250 U	250	39	50	06/27/18 17:28	
Chloroform	50 U	50	14	50	06/27/18 17:28	
1,1,1-Trichloroethane	50 U	50	13	50	06/27/18 17:28	
Carbon Tetrachloride	50 U	50	17	50	06/27/18 17:28	
Benzene	50 U	50	10	50	06/27/18 17:28	
1,2-Dichloroethane	50 U	50	10	50	06/27/18 17:28	
Trichloroethene	610	50	10	50	06/27/18 17:28	
1,2-Dichloropropane	50 U	50	11	50	06/27/18 17:28	
Bromodichloromethane	50 U	50	16	50	06/27/18 17:28	
cis-1,3-Dichloropropene	50 U	50	15	50	06/27/18 17:28	
4-Methyl-2-pentanone (MIBK)	250 U	250	15	50	06/27/18 17:28	
Toluene	50 U	50	10	50	06/27/18 17:28	
trans-1,3-Dichloropropene	50 U	50	15	50	06/27/18 17:28	
1,1,2-Trichloroethane	50 U	50	13	50	06/27/18 17:28	
Tetrachloroethene	50 U	50	14	50	06/27/18 17:28	
2-Hexanone	250 U	250	17	50	06/27/18 17:28	
Dibromochloromethane	50 U	50	10	50	06/27/18 17:28	
Chlorobenzene	50 U	50	10	50	06/27/18 17:28	
Ethylbenzene	50 U	50	10	50	06/27/18 17:28	
m,p-Xylenes	100 U	100	11	50	06/27/18 17:28	
o-Xylene	50 U	50	10	50	06/27/18 17:28	
Styrene	50 U	50	10	50	06/27/18 17:28	
Bromoform	50 U	50	18	50	06/27/18 17:28	
1,1,2,2-Tetrachloroethane	50 U	50	10	50	06/27/18 17:28	

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Analytical Report

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

Service Request: R1805705
Date Collected: 06/20/18 11:25
Date Received: 06/20/18 16:08

Sample Name: BAT-DW-10 180620
Lab Code: R1805705-013

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	92	85 - 122	06/27/18 17:28	
Toluene-d8	100	87 - 121	06/27/18 17:28	
Dibromofluoromethane	98	89 - 119	06/27/18 17:28	

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Analytical Report

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

Service Request: R1805705
Date Collected: 06/20/18 11:55
Date Received: 06/20/18 16:08

Sample Name: BAT-87-08 (1) 180620
Lab Code: R1805705-014

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	2.5 U	2.5	0.70	2.5	06/28/18 14:27	
Vinyl Chloride	360	2.5	0.55	2.5	06/28/18 14:27	
Chloroethane	2.5 U	2.5	0.58	2.5	06/28/18 14:27	
Bromomethane	2.5 U	2.5	1.8	2.5	06/28/18 14:27	
1,1-Dichloroethene	0.94 J	2.5	0.70	2.5	06/28/18 14:27	
Acetone	6.3 J	13	5.3	2.5	06/28/18 14:27	
Carbon Disulfide	6.6	2.5	0.78	2.5	06/28/18 14:27	
Methylene Chloride	2.5 U	2.5	1.2	2.5	06/28/18 14:27	
trans-1,2-Dichloroethene	3.8	2.5	0.65	2.5	06/28/18 14:27	
1,1-Dichloroethane	6.6	2.5	0.50	2.5	06/28/18 14:27	
cis-1,2-Dichloroethene	160	2.5	0.65	2.5	06/28/18 14:27	
2-Butanone (MEK)	13 U	13	2.0	2.5	06/28/18 14:27	
Chloroform	2.5 U	2.5	0.70	2.5	06/28/18 14:27	
1,1,1-Trichloroethane	1.9 J	2.5	0.63	2.5	06/28/18 14:27	
Carbon Tetrachloride	2.5 U	2.5	0.85	2.5	06/28/18 14:27	
Benzene	2.5 U	2.5	0.50	2.5	06/28/18 14:27	
1,2-Dichloroethane	2.5 U	2.5	0.50	2.5	06/28/18 14:27	
Trichloroethene	6.1	2.5	0.50	2.5	06/28/18 14:27	
1,2-Dichloropropane	2.5 U	2.5	0.53	2.5	06/28/18 14:27	
Bromodichloromethane	2.5 U	2.5	0.78	2.5	06/28/18 14:27	
cis-1,3-Dichloropropene	2.5 U	2.5	0.75	2.5	06/28/18 14:27	
4-Methyl-2-pentanone (MIBK)	13 U	13	0.73	2.5	06/28/18 14:27	
Toluene	2.5 U	2.5	0.50	2.5	06/28/18 14:27	
trans-1,3-Dichloropropene	2.5 U	2.5	0.75	2.5	06/28/18 14:27	
1,1,2-Trichloroethane	2.5 U	2.5	0.63	2.5	06/28/18 14:27	
Tetrachloroethene	2.5 U	2.5	0.70	2.5	06/28/18 14:27	
2-Hexanone	13 U	13	0.85	2.5	06/28/18 14:27	
Dibromochloromethane	2.5 U	2.5	0.50	2.5	06/28/18 14:27	
Chlorobenzene	2.5 U	2.5	0.50	2.5	06/28/18 14:27	
Ethylbenzene	2.5 U	2.5	0.50	2.5	06/28/18 14:27	
m,p-Xylenes	5.0 U	5.0	0.53	2.5	06/28/18 14:27	
o-Xylene	2.5 U	2.5	0.50	2.5	06/28/18 14:27	
Styrene	2.5 U	2.5	0.50	2.5	06/28/18 14:27	
Bromoform	2.5 U	2.5	0.90	2.5	06/28/18 14:27	
1,1,2,2-Tetrachloroethane	2.5 U	2.5	0.50	2.5	06/28/18 14:27	

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dba ALS Environmental

Analytical Report

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

Service Request: R1805705
Date Collected: 06/20/18 11:55
Date Received: 06/20/18 16:08

Sample Name: BAT-87-08 (1) 180620
Lab Code: R1805705-014

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85 - 122	06/28/18 14:27	
Toluene-d8	101	87 - 121	06/28/18 14:27	
Dibromofluoromethane	98	89 - 119	06/28/18 14:27	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: R1805705
Date Collected: 06/20/18 12:20
Date Received: 06/20/18 16:08

Sample Name: BAT-DW-9 180620
Lab Code: R1805705-015

Units: ug/L
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	0.28	1	06/27/18 11:47	
Vinyl Chloride	1.7	1.0	0.22	1	06/27/18 11:47	
Chloroethane	1.0 U	1.0	0.23	1	06/27/18 11:47	
Bromomethane	1.0 U	1.0	0.70	1	06/27/18 11:47	
1,1-Dichloroethene	1.0 U	1.0	0.28	1	06/27/18 11:47	
Acetone	5.0 U	5.0	2.1	1	06/27/18 11:47	
Carbon Disulfide	1.0 U	1.0	0.31	1	06/27/18 11:47	
Methylene Chloride	0.58 J	1.0	0.47	1	06/27/18 11:47	
trans-1,2-Dichloroethene	1.0 U	1.0	0.26	1	06/27/18 11:47	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	06/27/18 11:47	
cis-1,2-Dichloroethene	6.8	1.0	0.26	1	06/27/18 11:47	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	06/27/18 11:47	
Chloroform	1.0 U	1.0	0.28	1	06/27/18 11:47	
1,1,1-Trichloroethane	1.0 U	1.0	0.25	1	06/27/18 11:47	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	06/27/18 11:47	
Benzene	1.0 U	1.0	0.20	1	06/27/18 11:47	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	06/27/18 11:47	
Trichloroethene	11	1.0	0.20	1	06/27/18 11:47	
1,2-Dichloropropane	1.0 U	1.0	0.21	1	06/27/18 11:47	
Bromodichloromethane	1.0 U	1.0	0.31	1	06/27/18 11:47	
cis-1,3-Dichloropropene	1.0 U	1.0	0.30	1	06/27/18 11:47	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.29	1	06/27/18 11:47	
Toluene	1.0 U	1.0	0.20	1	06/27/18 11:47	
trans-1,3-Dichloropropene	1.0 U	1.0	0.30	1	06/27/18 11:47	
1,1,2-Trichloroethane	1.0 U	1.0	0.25	1	06/27/18 11:47	
Tetrachloroethene	1.0 U	1.0	0.28	1	06/27/18 11:47	
2-Hexanone	5.0 U	5.0	0.34	1	06/27/18 11:47	
Dibromochloromethane	1.0 U	1.0	0.20	1	06/27/18 11:47	
Chlorobenzene	1.0 U	1.0	0.20	1	06/27/18 11:47	
Ethylbenzene	1.0 U	1.0	0.20	1	06/27/18 11:47	
m,p-Xylenes	2.0 U	2.0	0.21	1	06/27/18 11:47	
o-Xylene	1.0 U	1.0	0.20	1	06/27/18 11:47	
Styrene	1.0 U	1.0	0.20	1	06/27/18 11:47	
Bromoform	1.0 U	1.0	0.36	1	06/27/18 11:47	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/27/18 11:47	

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Analytical Report

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

Service Request: R1805705
Date Collected: 06/20/18 12:20
Date Received: 06/20/18 16:08

Sample Name: BAT-DW-9 180620
Lab Code: R1805705-015

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	94	85 - 122	06/27/18 11:47	
Toluene-d8	102	87 - 121	06/27/18 11:47	
Dibromofluoromethane	99	89 - 119	06/27/18 11:47	

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Analytical Report

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

Service Request: R1805705
Date Collected: 06/20/18 13:05
Date Received: 06/20/18 16:08

Sample Name: BAT-B-10A (1) 180620
Lab Code: R1805705-016

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	250 U	250	70	250	06/28/18 14:49	
Vinyl Chloride	750	250	55	250	06/28/18 14:49	
Chloroethane	250 U	250	58	250	06/28/18 14:49	
Bromomethane	250 U	250	180	250	06/28/18 14:49	
1,1-Dichloroethene	200 J	250	70	250	06/28/18 14:49	
Acetone	1300 U	1300	530	250	06/28/18 14:49	
Carbon Disulfide	250 U	250	78	250	06/28/18 14:49	
Methylene Chloride	740	250	120	250	06/28/18 14:49	
trans-1,2-Dichloroethene	87 J	250	65	250	06/28/18 14:49	
1,1-Dichloroethane	180 J	250	50	250	06/28/18 14:49	
cis-1,2-Dichloroethene	37000	250	65	250	06/28/18 14:49	
2-Butanone (MEK)	1300 U	1300	200	250	06/28/18 14:49	
Chloroform	250 U	250	70	250	06/28/18 14:49	
1,1,1-Trichloroethane	730	250	63	250	06/28/18 14:49	
Carbon Tetrachloride	250 U	250	85	250	06/28/18 14:49	
Benzene	250 U	250	50	250	06/28/18 14:49	
1,2-Dichloroethane	250 U	250	50	250	06/28/18 14:49	
Trichloroethene	12000	250	50	250	06/28/18 14:49	
1,2-Dichloropropane	250 U	250	53	250	06/28/18 14:49	
Bromodichloromethane	250 U	250	78	250	06/28/18 14:49	
cis-1,3-Dichloropropene	250 U	250	75	250	06/28/18 14:49	
4-Methyl-2-pentanone (MIBK)	1300 U	1300	73	250	06/28/18 14:49	
Toluene	250 U	250	50	250	06/28/18 14:49	
trans-1,3-Dichloropropene	250 U	250	75	250	06/28/18 14:49	
1,1,2-Trichloroethane	250 U	250	63	250	06/28/18 14:49	
Tetrachloroethene	250 U	250	70	250	06/28/18 14:49	
2-Hexanone	1300 U	1300	85	250	06/28/18 14:49	
Dibromochloromethane	250 U	250	50	250	06/28/18 14:49	
Chlorobenzene	250 U	250	50	250	06/28/18 14:49	
Ethylbenzene	250 U	250	50	250	06/28/18 14:49	
m,p-Xylenes	500 U	500	53	250	06/28/18 14:49	
o-Xylene	250 U	250	50	250	06/28/18 14:49	
Styrene	250 U	250	50	250	06/28/18 14:49	
Bromoform	250 U	250	90	250	06/28/18 14:49	
1,1,2,2-Tetrachloroethane	250 U	250	50	250	06/28/18 14:49	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-B-10A (1) 180620
Lab Code: R1805705-016

Service Request: R1805705
Date Collected: 06/20/18 13:05
Date Received: 06/20/18 16:08
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85 - 122	06/28/18 14:49	
Toluene-d8	99	87 - 121	06/28/18 14:49	
Dibromofluoromethane	99	89 - 119	06/28/18 14:49	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-87-13 (1) 180620
Lab Code: R1805705-017

Service Request: R1805705
Date Collected: 06/20/18 13:40
Date Received: 06/20/18 16:08
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1000 U	1000	280	1000	06/27/18 18:12	
Vinyl Chloride	1400	1000	220	1000	06/27/18 18:12	
Chloroethane	1000 U	1000	230	1000	06/27/18 18:12	
Bromomethane	1000 U	1000	700	1000	06/27/18 18:12	
1,1-Dichloroethene	1000 U	1000	280	1000	06/27/18 18:12	
Acetone	5000 U	5000	2100	1000	06/27/18 18:12	
Carbon Disulfide	1000 U	1000	310	1000	06/27/18 18:12	
Methylene Chloride	490000 D	5000	2400	5000	06/28/18 15:11	
trans-1,2-Dichloroethene	1000 U	1000	260	1000	06/27/18 18:12	
1,1-Dichloroethane	570 J	1000	200	1000	06/27/18 18:12	
cis-1,2-Dichloroethene	44000	1000	260	1000	06/27/18 18:12	
2-Butanone (MEK)	5000 U	5000	780	1000	06/27/18 18:12	
Chloroform	1000 U	1000	280	1000	06/27/18 18:12	
1,1,1-Trichloroethane	1700	1000	250	1000	06/27/18 18:12	
Carbon Tetrachloride	1000 U	1000	340	1000	06/27/18 18:12	
Benzene	1000 U	1000	200	1000	06/27/18 18:12	
1,2-Dichloroethane	1000 U	1000	200	1000	06/27/18 18:12	
Trichloroethene	88000	1000	200	1000	06/27/18 18:12	
1,2-Dichloropropane	1000 U	1000	210	1000	06/27/18 18:12	
Bromodichloromethane	1000 U	1000	310	1000	06/27/18 18:12	
cis-1,3-Dichloropropene	1000 U	1000	300	1000	06/27/18 18:12	
4-Methyl-2-pentanone (MIBK)	5000 U	5000	290	1000	06/27/18 18:12	
Toluene	1000 U	1000	200	1000	06/27/18 18:12	
trans-1,3-Dichloropropene	1000 U	1000	300	1000	06/27/18 18:12	
1,1,2-Trichloroethane	1000 U	1000	250	1000	06/27/18 18:12	
Tetrachloroethene	1000 U	1000	280	1000	06/27/18 18:12	
2-Hexanone	5000 U	5000	340	1000	06/27/18 18:12	
Dibromochloromethane	1000 U	1000	200	1000	06/27/18 18:12	
Chlorobenzene	1000 U	1000	200	1000	06/27/18 18:12	
Ethylbenzene	1000 U	1000	200	1000	06/27/18 18:12	
m,p-Xylenes	2000 U	2000	210	1000	06/27/18 18:12	
o-Xylene	1000 U	1000	200	1000	06/27/18 18:12	
Styrene	1000 U	1000	200	1000	06/27/18 18:12	
Bromoform	1000 U	1000	360	1000	06/27/18 18:12	
1,1,2,2-Tetrachloroethane	1000 U	1000	200	1000	06/27/18 18:12	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-87-13 (1) 180620
Lab Code: R1805705-017

Service Request: R1805705
Date Collected: 06/20/18 13:40
Date Received: 06/20/18 16:08
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	90	85 - 122	06/27/18 18:12	
Toluene-d8	100	87 - 121	06/27/18 18:12	
Dibromofluoromethane	100	89 - 119	06/27/18 18:12	

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Analytical Report

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

Service Request: R1805705
Date Collected: 06/20/18 14:15
Date Received: 06/20/18 16:08

Sample Name: BAT-87-17 (1) 180620
Lab Code: R1805705-018

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	2.0 U	2.0	0.56	2	06/28/18 16:16	
Vinyl Chloride	220	2.0	0.44	2	06/28/18 16:16	
Chloroethane	2.0 U	2.0	0.46	2	06/28/18 16:16	
Bromomethane	2.0 U	2.0	1.4	2	06/28/18 16:16	
1,1-Dichloroethene	1.2 J	2.0	0.56	2	06/28/18 16:16	
Acetone	10 U	10	4.2	2	06/28/18 16:16	
Carbon Disulfide	2.0 U	2.0	0.62	2	06/28/18 16:16	
Methylene Chloride	2.0 U	2.0	0.94	2	06/28/18 16:16	
trans-1,2-Dichloroethene	2.0 J	2.0	0.52	2	06/28/18 16:16	
1,1-Dichloroethane	20	2.0	0.40	2	06/28/18 16:16	
cis-1,2-Dichloroethene	92	2.0	0.52	2	06/28/18 16:16	
2-Butanone (MEK)	10 U	10	1.6	2	06/28/18 16:16	
Chloroform	2.0 U	2.0	0.56	2	06/28/18 16:16	
1,1,1-Trichloroethane	89	2.0	0.50	2	06/28/18 16:16	
Carbon Tetrachloride	2.0 U	2.0	0.68	2	06/28/18 16:16	
Benzene	2.0 U	2.0	0.40	2	06/28/18 16:16	
1,2-Dichloroethane	2.0 U	2.0	0.40	2	06/28/18 16:16	
Trichloroethene	2.1	2.0	0.40	2	06/28/18 16:16	
1,2-Dichloropropane	2.0 U	2.0	0.42	2	06/28/18 16:16	
Bromodichloromethane	2.0 U	2.0	0.62	2	06/28/18 16:16	
cis-1,3-Dichloropropene	2.0 U	2.0	0.60	2	06/28/18 16:16	
4-Methyl-2-pentanone (MIBK)	10 U	10	0.58	2	06/28/18 16:16	
Toluene	2.0 U	2.0	0.40	2	06/28/18 16:16	
trans-1,3-Dichloropropene	2.0 U	2.0	0.60	2	06/28/18 16:16	
1,1,2-Trichloroethane	2.0 U	2.0	0.50	2	06/28/18 16:16	
Tetrachloroethene	2.0 U	2.0	0.56	2	06/28/18 16:16	
2-Hexanone	10 U	10	0.68	2	06/28/18 16:16	
Dibromochloromethane	2.0 U	2.0	0.40	2	06/28/18 16:16	
Chlorobenzene	2.0 U	2.0	0.40	2	06/28/18 16:16	
Ethylbenzene	2.0 U	2.0	0.40	2	06/28/18 16:16	
m,p-Xylenes	4.0 U	4.0	0.42	2	06/28/18 16:16	
o-Xylene	2.0 U	2.0	0.40	2	06/28/18 16:16	
Styrene	2.0 U	2.0	0.40	2	06/28/18 16:16	
Bromoform	2.0 U	2.0	0.72	2	06/28/18 16:16	
1,1,2,2-Tetrachloroethane	2.0 U	2.0	0.40	2	06/28/18 16:16	

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Analytical Report

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

Service Request: R1805705
Date Collected: 06/20/18 14:15
Date Received: 06/20/18 16:08

Sample Name: BAT-87-17 (1) 180620
Lab Code: R1805705-018

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	93	85 - 122	06/28/18 16:16	
Toluene-d8	101	87 - 121	06/28/18 16:16	
Dibromofluoromethane	102	89 - 119	06/28/18 16:16	



Volatile Organic Compounds by GC

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

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Analytical Report

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

Service Request: R1805705
Date Collected: 06/19/18 09:30
Date Received: 06/19/18 17:30

Sample Name: BAT-87-02 (1) 180619
Lab Code: R1805705-001

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	5	06/26/18 14:32	
Ethene	260	5.0	5	06/26/18 14:32	
Methane	58	5.3	5	06/26/18 14:32	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-87-01 (1) 180619
Lab Code: R1805705-002

Service Request: R1805705
Date Collected: 06/19/18 10:05
Date Received: 06/19/18 17:30
Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	10 U	10	10	06/26/18 14:56	
Ethene	180	10	10	06/26/18 14:56	
Methane	1000	11	10	06/26/18 14:56	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-87-12 (1) 180619
Lab Code: R1805705-003

Service Request: R1805705
Date Collected: 06/19/18 10:35
Date Received: 06/19/18 17:30
Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	5	06/26/18 15:14	
Ethene	310	5.0	5	06/26/18 15:14	
Methane	130	5.3	5	06/26/18 15:14	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-89-12 (1) 180619
Lab Code: R1805705-004

Service Request: R1805705
Date Collected: 06/19/18 11:10
Date Received: 06/19/18 17:30
Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	10 U	10	10	06/26/18 15:25	
Ethene	480	10	10	06/26/18 15:25	
Methane	42	11	10	06/26/18 15:25	

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Analytical Report

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

Service Request: R1805705
Date Collected: 06/19/18 11:30
Date Received: 06/19/18 17:30

Sample Name: BAT-DW-12 180619
Lab Code: R1805705-005

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	1.0 U	1.0	1	06/26/18 15:48	
Ethene	1.0 U	1.0	1	06/26/18 15:48	
Methane	1.1 U	1.1	1	06/26/18 15:48	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-89-10 (1) 180619
Lab Code: R1805705-006

Service Request: R1805705
Date Collected: 06/19/18 12:00
Date Received: 06/19/18 17:30
Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	1.7	1.0	1	06/26/18 16:09	
Ethene	66	1.0	1	06/26/18 16:09	
Methane	11	1.1	1	06/26/18 16:09	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-87-20 (1) 180619
Lab Code: R1805705-007

Service Request: R1805705
Date Collected: 06/19/18 13:25
Date Received: 06/19/18 17:30
Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	1.6	1.0	1	06/26/18 16:19	
Ethene	71	1.0	1	06/26/18 16:19	
Methane	37	1.1	1	06/26/18 16:19	

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Analytical Report

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

Service Request: R1805705
Date Collected: 06/19/18 14:00
Date Received: 06/19/18 17:30

Sample Name: BAT-87-22 (1) 180619
Lab Code: R1805705-008

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	6.1	1.0	1	06/26/18 16:29	
Ethene	87	1.0	1	06/26/18 16:29	
Methane	200 D	2.6	2.5	06/26/18 16:40	

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Analytical Report

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

Service Request: R1805705
Date Collected: 06/19/18 14:30
Date Received: 06/19/18 17:30

Sample Name: BAT-DW-11 180619
Lab Code: R1805705-009

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	1.0	1.0	1	06/26/18 17:00	
Ethene	40	1.0	1	06/26/18 17:00	
Methane	69	1.1	1	06/26/18 17:00	

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Analytical Report

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

Service Request: R1805705
Date Collected: 06/19/18 15:00
Date Received: 06/19/18 17:30

Sample Name: BAT-B-14 (1) 180619
Lab Code: R1805705-010

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	1.4	1.0	1	06/26/18 17:10	
Ethene	17	1.0	1	06/26/18 17:10	
Methane	80	1.1	1	06/26/18 17:10	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-87-09 (1) 180619
Lab Code: R1805705-011

Service Request: R1805705
Date Collected: 06/19/18 15:35
Date Received: 06/19/18 17:30
Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	1.6	1.0	1	06/26/18 17:19	
Ethene	12	1.0	1	06/26/18 17:19	
Methane	79	1.1	1	06/26/18 17:19	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

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

Service Request: R1805705
Date Collected: 06/20/18 10:35
Date Received: 06/20/18 16:08

Sample Name: BAT-89-15 (1) 180620
Lab Code: R1805705-012

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	5	06/26/18 17:41	
Ethene	340	5.0	5	06/26/18 17:41	
Methane	78	5.3	5	06/26/18 17:41	

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dba ALS Environmental

Analytical Report

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

Service Request: R1805705
Date Collected: 06/20/18 11:25
Date Received: 06/20/18 16:08

Sample Name: BAT-DW-10 180620
Lab Code: R1805705-013

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	30	1.0	1	06/26/18 17:54	
Ethene	19	1.0	1	06/26/18 17:54	
Methane	33	1.1	1	06/26/18 17:54	

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dba ALS Environmental

Analytical Report

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

Service Request: R1805705
Date Collected: 06/20/18 11:55
Date Received: 06/20/18 16:08

Sample Name: BAT-87-08 (1) 180620
Lab Code: R1805705-014

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	5.2 U	5.2	5	06/26/18 18:07	
Ethene	380	5.0	5	06/26/18 18:07	
Methane	69	5.3	5	06/26/18 18:07	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-DW-9 180620
Lab Code: R1805705-015

Service Request: R1805705
Date Collected: 06/20/18 12:20
Date Received: 06/20/18 16:08
Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	1.0 U	1.0	1	06/26/18 18:17	
Ethene	1.2	1.0	1	06/26/18 18:17	
Methane	1.4	1.1	1	06/26/18 18:17	

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Analytical Report

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

Service Request: R1805705
Date Collected: 06/20/18 13:05
Date Received: 06/20/18 16:08

Sample Name: BAT-B-10A (1) 180620
Lab Code: R1805705-016

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	3.2	1.0	1	06/27/18 12:05	
Ethene	93 D	20	20	06/27/18 12:21	
Methane	1200 D	21	20	06/27/18 12:21	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-87-13 (1) 180620
Lab Code: R1805705-017

Service Request: R1805705
Date Collected: 06/20/18 13:40
Date Received: 06/20/18 16:08
Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	8.9	2.6	2.5	06/27/18 13:01	
Ethene	150	2.5	2.5	06/27/18 13:01	
Methane	180	2.6	2.5	06/27/18 13:01	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-87-17 (1) 180620
Lab Code: R1805705-018

Service Request: R1805705
Date Collected: 06/20/18 14:15
Date Received: 06/20/18 16:08
Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	1.2	1.0	1	06/27/18 13:12	
Ethene	13	1.0	1	06/27/18 13:12	
Methane	72	1.1	1	06/27/18 13:12	



Semivolatile Organic Compounds by GC

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

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

Service Request: R1805705
Date Collected: 06/19/18 09:30
Date Received: 06/19/18 17:30

Sample Name: BAT-87-02 (1) 180619
Lab Code: R1805705-001

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	06/26/18 18:06	
Acetic Acid	6.6	1.0	1	06/26/18 18:06	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	06/26/18 18:06	
Lactic Acid	1.0 U	1.0	1	06/26/18 18:06	
Propionic Acid	1.0 U	1.0	1	06/26/18 18:06	

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Analytical Report

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

Service Request: R1805705
Date Collected: 06/19/18 10:05
Date Received: 06/19/18 17:30

Sample Name: BAT-87-01 (1) 180619
Lab Code: R1805705-002

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	06/26/18 18:41	
Acetic Acid	1.0 U	1.0	1	06/26/18 18:41	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	06/26/18 18:41	
Lactic Acid	1.0 U	1.0	1	06/26/18 18:41	
Propionic Acid	1.0 U	1.0	1	06/26/18 18:41	

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Analytical Report

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

Service Request: R1805705
Date Collected: 06/19/18 10:35
Date Received: 06/19/18 17:30

Sample Name: BAT-87-12 (1) 180619
Lab Code: R1805705-003

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	06/26/18 19:16	
Acetic Acid	1.0 U	1.0	1	06/26/18 19:16	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	06/26/18 19:16	
Lactic Acid	1.0 U	1.0	1	06/26/18 19:16	
Propionic Acid	1.0 U	1.0	1	06/26/18 19:16	

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Analytical Report

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

Service Request: R1805705
Date Collected: 06/19/18 11:10
Date Received: 06/19/18 17:30

Sample Name: BAT-89-12 (1) 180619
Lab Code: R1805705-004

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	06/26/18 19:51	
Acetic Acid	1.0 U	1.0	1	06/26/18 19:51	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	06/26/18 19:51	
Lactic Acid	1.0 U	1.0	1	06/26/18 19:51	
Propionic Acid	1.0 U	1.0	1	06/26/18 19:51	

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Analytical Report

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

Service Request: R1805705
Date Collected: 06/19/18 11:30
Date Received: 06/19/18 17:30

Sample Name: BAT-DW-12 180619
Lab Code: R1805705-005

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	06/26/18 20:30	
Acetic Acid	1.0 U	1.0	1	06/26/18 20:30	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	06/26/18 20:30	
Lactic Acid	1.0 U	1.0	1	06/26/18 20:30	
Propionic Acid	1.0 U	1.0	1	06/26/18 20:30	

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Analytical Report

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

Service Request: R1805705
Date Collected: 06/19/18 12:00
Date Received: 06/19/18 17:30

Sample Name: BAT-89-10 (1) 180619
Lab Code: R1805705-006

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	06/26/18 21:01	
Acetic Acid	16	1.0	1	06/26/18 21:01	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	06/26/18 21:01	
Lactic Acid	1.0 U	1.0	1	06/26/18 21:01	
Propionic Acid	1.0 U	1.0	1	06/26/18 21:01	

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Analytical Report

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

Service Request: R1805705
Date Collected: 06/19/18 13:25
Date Received: 06/19/18 17:30

Sample Name: BAT-87-20 (1) 180619
Lab Code: R1805705-007

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	06/26/18 22:46	
Acetic Acid	1.0 U	1.0	1	06/26/18 22:46	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	06/26/18 22:46	
Lactic Acid	1.0 U	1.0	1	06/26/18 22:46	
Propionic Acid	1.0 U	1.0	1	06/26/18 22:46	

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Analytical Report

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

Service Request: R1805705
Date Collected: 06/19/18 14:00
Date Received: 06/19/18 17:30

Sample Name: BAT-87-22 (1) 180619
Lab Code: R1805705-008

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	06/26/18 23:21	
Acetic Acid	2.3	1.0	1	06/26/18 23:21	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	06/26/18 23:21	
Lactic Acid	1.0 U	1.0	1	06/26/18 23:21	
Propionic Acid	1.0 U	1.0	1	06/26/18 23:21	

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Analytical Report

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

Service Request: R1805705
Date Collected: 06/19/18 14:30
Date Received: 06/19/18 17:30

Sample Name: BAT-DW-11 180619
Lab Code: R1805705-009

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	06/26/18 23:56	
Acetic Acid	19	1.0	1	06/26/18 23:56	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	06/26/18 23:56	
Lactic Acid	1.0 U	1.0	1	06/26/18 23:56	
Propionic Acid	1.0 U	1.0	1	06/26/18 23:56	

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Analytical Report

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

Service Request: R1805705
Date Collected: 06/19/18 15:00
Date Received: 06/19/18 17:30

Sample Name: BAT-B-14 (1) 180619
Lab Code: R1805705-010

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	06/27/18 00:31	
Acetic Acid	1.0 U	1.0	1	06/27/18 00:31	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	06/27/18 00:31	
Lactic Acid	1.0 U	1.0	1	06/27/18 00:31	
Propionic Acid	1.0 U	1.0	1	06/27/18 00:31	

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Analytical Report

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

Service Request: R1805705
Date Collected: 06/19/18 15:35
Date Received: 06/19/18 17:30

Sample Name: BAT-87-09 (1) 180619
Lab Code: R1805705-011

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	06/27/18 01:06	
Acetic Acid	1.0 U	1.0	1	06/27/18 01:06	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	06/27/18 01:06	
Lactic Acid	1.0 U	1.0	1	06/27/18 01:06	
Propionic Acid	1.0 U	1.0	1	06/27/18 01:06	

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Analytical Report

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

Service Request: R1805705
Date Collected: 06/20/18 10:35
Date Received: 06/20/18 16:08

Sample Name: BAT-89-15 (1) 180620
Lab Code: R1805705-012

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	06/27/18 01:41	
Acetic Acid	17	1.0	1	06/27/18 01:41	
Butanoic Acid (Butyric Acid)	3.6	2.0	1	06/27/18 01:41	
Lactic Acid	1.0 U	1.0	1	06/27/18 01:41	
Propionic Acid	2.0	1.0	1	06/27/18 01:41	

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Analytical Report

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

Service Request: R1805705
Date Collected: 06/20/18 11:25
Date Received: 06/20/18 16:08

Sample Name: BAT-DW-10 180620
Lab Code: R1805705-013

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	06/27/18 02:16	
Acetic Acid	56	1.0	1	06/27/18 02:16	
Butanoic Acid (Butyric Acid)	7.1	2.0	1	06/27/18 02:16	
Lactic Acid	1.0 U	1.0	1	06/27/18 02:16	
Propionic Acid	4.0	1.0	1	06/27/18 02:16	

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Analytical Report

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

Service Request: R1805705
Date Collected: 06/20/18 11:55
Date Received: 06/20/18 16:08

Sample Name: BAT-87-08 (1) 180620
Lab Code: R1805705-014

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	06/27/18 02:55	
Acetic Acid	1.0 U	1.0	1	06/27/18 02:55	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	06/27/18 02:55	
Lactic Acid	1.0 U	1.0	1	06/27/18 02:55	
Propionic Acid	1.0 U	1.0	1	06/27/18 02:55	

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Analytical Report

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

Service Request: R1805705
Date Collected: 06/20/18 12:20
Date Received: 06/20/18 16:08

Sample Name: BAT-DW-9 180620
Lab Code: R1805705-015

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	06/27/18 03:30	
Acetic Acid	1.0 U	1.0	1	06/27/18 03:30	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	06/27/18 03:30	
Lactic Acid	1.0 U	1.0	1	06/27/18 03:30	
Propionic Acid	1.0 U	1.0	1	06/27/18 03:30	

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Analytical Report

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

Service Request: R1805705
Date Collected: 06/20/18 13:05
Date Received: 06/20/18 16:08

Sample Name: BAT-B-10A (1) 180620
Lab Code: R1805705-016

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	06/27/18 05:10	
Acetic Acid	170	1.0	1	06/27/18 05:10	
Butanoic Acid (Butyric Acid)	13	2.0	1	06/27/18 05:10	
Lactic Acid	1.0 U	1.0	1	06/27/18 05:10	
Propionic Acid	44	1.0	1	06/27/18 05:10	

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Analytical Report

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

Service Request: R1805705
Date Collected: 06/20/18 13:40
Date Received: 06/20/18 16:08

Sample Name: BAT-87-13 (1) 180620
Lab Code: R1805705-017

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	2.5 U	2.5	5	06/27/18 13:00	
Acetic Acid	430	5.0	5	06/27/18 13:00	
Butanoic Acid (Butyric Acid)	10 U	10	5	06/27/18 13:00	
Lactic Acid	11	5.0	5	06/27/18 13:00	
Propionic Acid	24	5.0	5	06/27/18 13:00	

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Analytical Report

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

Service Request: R1805705
Date Collected: 06/20/18 14:15
Date Received: 06/20/18 16:08

Sample Name: BAT-87-17 (1) 180620
Lab Code: R1805705-018

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	06/27/18 12:18	
Acetic Acid	1.0 U	1.0	1	06/27/18 12:18	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	06/27/18 12:18	
Lactic Acid	1.0 U	1.0	1	06/27/18 12:18	
Propionic Acid	1.0 U	1.0	1	06/27/18 12:18	



General Chemistry

ALS Environmental—Rochester Laboratory

1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

Phone (585) 288-5380 Fax (585) 288-8475

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-87-02 (1) 180619
Lab Code: R1805705-001

Service Request: R1805705
Date Collected: 06/19/18 09:30
Date Received: 06/19/18 17:30
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	406	mg/L	2.0	1	06/21/18 07:03	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	406	mg/L	2.0	1	06/21/18 07:03	
Carbon Dioxide	SM 4500-CO2 D	417	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	6.8	mg/L	1.0	1	06/27/18 10:30	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	06/21/18 07:03	
Chloride	9056A	330	mg/L	20	100	06/20/18 18:36	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	4.55	mg/L	0.20	2	06/20/18 09:14	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	06/20/18 09:34	
Sulfate	9056A	360	mg/L	20	100	06/20/18 18:36	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-87-01 (1) 180619
Lab Code: R1805705-002

Service Request: R1805705
Date Collected: 06/19/18 10:05
Date Received: 06/19/18 17:30
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	514	mg/L	2.0	1	06/21/18 07:09	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	514	mg/L	2.0	1	06/21/18 07:09	
Carbon Dioxide	SM 4500-CO2 D	542	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	4.5	mg/L	1.0	1	06/27/18 10:51	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	06/21/18 07:09	
Chloride	9056A	266	mg/L	20	100	06/20/18 18:59	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.24	mg/L	0.10	1	06/20/18 09:14	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	06/20/18 09:40	
Sulfate	9056A	360	mg/L	20	100	06/20/18 18:59	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-87-12 (1) 180619
Lab Code: R1805705-003

Service Request: R1805705
Date Collected: 06/19/18 10:35
Date Received: 06/19/18 17:30
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	357	mg/L	2.0	1	06/21/18 07:38	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	357	mg/L	2.0	1	06/21/18 07:38	
Carbon Dioxide	SM 4500-CO2 D	415	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	3.5	mg/L	1.0	1	06/27/18 11:12	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	06/21/18 07:38	
Chloride	9056A	191	mg/L	20	100	06/20/18 19:17	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.10 U	mg/L	0.10	1	06/20/18 09:14	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	06/20/18 09:46	
Sulfate	9056A	763	mg/L	20	100	06/20/18 19:17	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-89-12 (1) 180619
Lab Code: R1805705-004

Service Request: R1805705
Date Collected: 06/19/18 11:10
Date Received: 06/19/18 17:30
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	286	mg/L	2.0	1	06/21/18 07:44	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	286	mg/L	2.0	1	06/21/18 07:44	
Carbon Dioxide	SM 4500-CO2 D	292	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	3.9	mg/L	1.0	1	06/27/18 11:33	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	06/21/18 07:44	
Chloride	9056A	207	mg/L	40	200	06/20/18 19:23	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.90	mg/L	0.10	1	06/20/18 09:14	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	06/20/18 09:51	
Sulfate	9056A	872	mg/L	40	200	06/20/18 19:23	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-DW-12 180619
Lab Code: R1805705-005

Service Request: R1805705
Date Collected: 06/19/18 11:30
Date Received: 06/19/18 17:30
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	212	mg/L	2.0	1	06/21/18 07:50	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	212	mg/L	2.0	1	06/21/18 07:50	
Carbon Dioxide	SM 4500-CO2 D	204	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	3.1	mg/L	1.0	1	06/27/18 11:54	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	06/21/18 07:50	
Chloride	9056A	322	mg/L	20	100	06/20/18 19:34	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.34	mg/L	0.10	1	06/20/18 09:14	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	06/20/18 19:28	
Sulfate	9056A	282	mg/L	20	100	06/20/18 19:34	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-89-10 (1) 180619
Lab Code: R1805705-006

Service Request: R1805705
Date Collected: 06/19/18 12:00
Date Received: 06/19/18 17:30
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	352	mg/L	2.0	1	06/21/18 07:56	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	352	mg/L	2.0	1	06/21/18 07:56	
Carbon Dioxide	SM 4500-CO2 D	365	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	11.8	mg/L	1.0	1	06/27/18 12:15	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	06/21/18 07:56	
Chloride	9056A	246	mg/L	20	100	06/20/18 19:40	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.34	mg/L	0.10	1	06/20/18 09:14	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	06/20/18 10:03	
Sulfate	9056A	618	mg/L	20	100	06/20/18 19:40	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-87-20 (1) 180619
Lab Code: R1805705-007

Service Request: R1805705
Date Collected: 06/19/18 13:25
Date Received: 06/19/18 17:30
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	242	mg/L	2.0	1	06/21/18 08:01	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	242	mg/L	2.0	1	06/21/18 08:01	
Carbon Dioxide	SM 4500-CO2 D	274	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	2.8	mg/L	1.0	1	06/27/18 12:36	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	06/21/18 08:01	
Chloride	9056A	166	mg/L	20	100	06/20/18 19:46	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.25	mg/L	0.10	1	06/20/18 09:14	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	06/20/18 20:04	
Sulfate	9056A	506	mg/L	20	100	06/20/18 19:46	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-87-22 (1) 180619
Lab Code: R1805705-008

Service Request: R1805705
Date Collected: 06/19/18 14:00
Date Received: 06/19/18 17:30

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	423	mg/L	2.0	1	06/21/18 05:29	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	423	mg/L	2.0	1	06/21/18 05:29	
Carbon Dioxide	SM 4500-CO2 D	507	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	4.9	mg/L	1.0	1	06/27/18 12:57	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	06/21/18 05:29	
Chloride	9056A	124	mg/L	40	200	06/20/18 20:09	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.11	mg/L	0.10	1	06/20/18 09:14	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	06/20/18 10:15	
Sulfate	9056A	1090	mg/L	40	200	06/20/18 20:09	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-DW-11 180619
Lab Code: R1805705-009

Service Request: R1805705
Date Collected: 06/19/18 14:30
Date Received: 06/19/18 17:30
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	547	mg/L	2.0	1	06/21/18 05:35	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	547	mg/L	2.0	1	06/21/18 05:35	
Carbon Dioxide	SM 4500-CO2 D	647	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	24.6	mg/L	4.0	4	06/27/18 23:03	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	06/21/18 05:35	
Chloride	9056A	782	mg/L	20	100	06/20/18 20:15	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.24	mg/L	0.10	1	06/20/18 09:14	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	06/20/18 10:32	
Sulfate	9056A	167	mg/L	20	100	06/20/18 20:15	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-B-14 (1) 180619
Lab Code: R1805705-010

Service Request: R1805705
Date Collected: 06/19/18 15:00
Date Received: 06/19/18 17:30

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	308	mg/L	2.0	1	06/21/18 05:40	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	308	mg/L	2.0	1	06/21/18 05:40	
Carbon Dioxide	SM 4500-CO2 D	305	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	3.9	mg/L	1.0	1	06/27/18 15:10	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	06/21/18 05:40	
Chloride	9056A	134	mg/L	8.0	40	06/20/18 20:33	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.10 U	mg/L	0.10	1	06/20/18 09:14	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	06/20/18 10:38	
Sulfate	9056A	1070	mg/L	80	400	06/20/18 20:39	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-87-09 (1) 180619
Lab Code: R1805705-011

Service Request: R1805705
Date Collected: 06/19/18 15:35
Date Received: 06/19/18 17:30
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	314	mg/L	2.0	1	06/21/18 05:46	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	314	mg/L	2.0	1	06/21/18 05:46	
Carbon Dioxide	SM 4500-CO2 D	316	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	3.5	mg/L	1.0	1	06/27/18 15:31	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	06/21/18 05:46	
Chloride	9056A	129	mg/L	8.0	40	06/20/18 20:45	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.10 U	mg/L	0.10	1	06/20/18 09:14	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	06/20/18 10:44	
Sulfate	9056A	1080	mg/L	80	400	06/20/18 20:50	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-89-15 (1) 180620
Lab Code: R1805705-012

Service Request: R1805705
Date Collected: 06/20/18 10:35
Date Received: 06/20/18 16:08

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	469	mg/L	2.0	1	06/26/18 19:59	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	469	mg/L	2.0	1	06/26/18 19:59	
Carbon Dioxide	SM 4500-CO2 D	437	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	18.9	mg/L	1.0	1	06/27/18 15:52	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	06/26/18 19:59	
Chloride	9056A	85.3	mg/L	2.0	10	06/21/18 09:19	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.10 U	mg/L	0.10	1	06/20/18 22:10	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	06/21/18 09:19	
Sulfate	9056A	241	mg/L	8.0	40	06/21/18 13:52	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-DW-10 180620
Lab Code: R1805705-013

Service Request: R1805705
Date Collected: 06/20/18 11:25
Date Received: 06/20/18 16:08

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	138	mg/L	2.0	1	06/26/18 20:06	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	138	mg/L	2.0	1	06/26/18 20:06	
Carbon Dioxide	SM 4500-CO2 D	214	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	107	mg/L	10	10	06/27/18 22:00	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	06/26/18 20:06	
Chloride	9056A	30.2	mg/L	2.0	10	06/21/18 09:25	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.18	mg/L	0.10	1	06/20/18 22:10	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	06/21/18 09:25	
Sulfate	9056A	28.5	mg/L	2.0	10	06/21/18 09:25	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-87-08 (1) 180620
Lab Code: R1805705-014

Service Request: R1805705
Date Collected: 06/20/18 11:55
Date Received: 06/20/18 16:08

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	455	mg/L	2.0	1	06/26/18 20:12	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	455	mg/L	2.0	1	06/26/18 20:12	
Carbon Dioxide	SM 4500-CO2 D	460	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	4.1	mg/L	1.0	1	06/27/18 21:39	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	06/26/18 20:12	
Chloride	9056A	22.5	mg/L	2.0	10	06/21/18 09:31	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.14	mg/L	0.10	1	06/20/18 22:10	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	06/21/18 09:31	
Sulfate	9056A	305	mg/L	8.0	40	06/21/18 13:58	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-DW-9 180620
Lab Code: R1805705-015

Service Request: R1805705
Date Collected: 06/20/18 12:20
Date Received: 06/20/18 16:08
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	168	mg/L	2.0	1	06/26/18 20:17	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	168	mg/L	2.0	1	06/26/18 20:17	
Carbon Dioxide	SM 4500-CO2 D	152	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	4.6	mg/L	1.0	1	06/27/18 16:54	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	06/26/18 20:17	
Chloride	9056A	10.3	mg/L	2.0	10	06/21/18 09:37	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.10 U	mg/L	0.10	1	06/20/18 22:10	H
Nitrate as Nitrogen	9056A	5.1	mg/L	1.0	10	06/21/18 09:37	
Sulfate	9056A	62.3	mg/L	2.0	10	06/21/18 09:37	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-B-10A (1) 180620
Lab Code: R1805705-016

Service Request: R1805705
Date Collected: 06/20/18 13:05
Date Received: 06/20/18 16:08
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	701	mg/L	2.0	1	06/26/18 20:23	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	701	mg/L	2.0	1	06/26/18 20:23	
Carbon Dioxide	SM 4500-CO2 D	696	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	112	mg/L	10	10	06/27/18 18:52	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	06/26/18 20:23	
Chloride	9056A	67.0	mg/L	2.0	10	06/21/18 09:43	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.10 U	mg/L	0.10	1	06/20/18 22:10	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	06/21/18 09:43	
Sulfate	9056A	35.1	mg/L	2.0	10	06/21/18 09:43	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-87-13 (1) 180620
Lab Code: R1805705-017

Service Request: R1805705
Date Collected: 06/20/18 13:40
Date Received: 06/20/18 16:08

Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	1000	mg/L	2.0	1	06/26/18 20:30	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	1000	mg/L	2.0	1	06/26/18 20:30	
Carbon Dioxide	SM 4500-CO2 D	1560	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	270	mg/L	10	10	06/27/18 20:16	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	06/26/18 20:30	
Chloride	9056A	448	mg/L	20	100	06/21/18 14:04	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.16	mg/L	0.10	1	06/20/18 22:10	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	06/21/18 09:49	
Sulfate	9056A	547	mg/L	20	100	06/21/18 14:04	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-87-17 (1) 180620
Lab Code: R1805705-018

Service Request: R1805705
Date Collected: 06/20/18 14:15
Date Received: 06/20/18 16:08
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	288	mg/L	2.0	1	06/26/18 20:36	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	288	mg/L	2.0	1	06/26/18 20:36	
Carbon Dioxide	SM 4500-CO2 D	286	mg/L	2.0	1	NA	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	3.7	mg/L	1.0	1	06/27/18 21:18	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	06/26/18 20:36	
Chloride	9056A	142	mg/L	8.0	40	06/21/18 14:10	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.25	mg/L	0.10	1	06/20/18 22:10	H
Nitrate as Nitrogen	9056A	1.0 U	mg/L	1.0	10	06/21/18 09:54	
Sulfate	9056A	1120	mg/L	80	400	06/21/18 14:16	



Field Data

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 Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-87-02 (1) 180619
Lab Code: R1805705-001

Service Request: R1805705
Date Collected: 06/19/18 09:30
Date Received: 06/19/18 17:30
Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
pH, Field	SM 4500-H+ B	7.14	pH Units	-	1	06/19/18 09:30	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-87-01 (1) 180619
Lab Code: R1805705-002

Service Request: R1805705
Date Collected: 06/19/18 10:05
Date Received: 06/19/18 17:30
Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
pH, Field	SM 4500-H+ B	7.06	pH Units	-	1	06/19/18 10:05	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-87-12 (1) 180619
Lab Code: R1805705-003

Service Request: R1805705
Date Collected: 06/19/18 10:35
Date Received: 06/19/18 17:30
Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
pH, Field	SM 4500-H+ B	6.85	pH Units	-	1	06/19/18 10:35	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-89-12 (1) 180619
Lab Code: R1805705-004

Service Request: R1805705
Date Collected: 06/19/18 11:10
Date Received: 06/19/18 17:30
Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
pH, Field	SM 4500-H+ B	7.16	pH Units	-	1	06/19/18 11:10	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-DW-12 180619
Lab Code: R1805705-005

Service Request: R1805705
Date Collected: 06/19/18 11:30
Date Received: 06/19/18 17:30
Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
pH, Field	SM 4500-H+ B	7.37	pH Units	-	1	06/19/18 11:30	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-89-10 (1) 180619
Lab Code: R1805705-006

Service Request: R1805705
Date Collected: 06/19/18 12:00
Date Received: 06/19/18 17:30
Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
pH, Field	SM 4500-H+ B	7.10	pH Units	-	1	06/19/18 12:00	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-87-20 (1) 180619
Lab Code: R1805705-007

Service Request: R1805705
Date Collected: 06/19/18 13:25
Date Received: 06/19/18 17:30
Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
pH, Field	SM 4500-H+ B	6.90	pH Units	-	1	06/19/18 13:25	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-87-22 (1) 180619
Lab Code: R1805705-008

Service Request: R1805705
Date Collected: 06/19/18 14:00
Date Received: 06/19/18 17:30
Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
pH, Field	SM 4500-H+ B	6.80	pH Units	-	1	06/19/18 14:00	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-DW-11 180619
Lab Code: R1805705-009

Service Request: R1805705
Date Collected: 06/19/18 14:30
Date Received: 06/19/18 17:30
Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
pH, Field	SM 4500-H+ B	6.82	pH Units	-	1	06/19/18 14:30	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-B-14 (1) 180619
Lab Code: R1805705-010

Service Request: R1805705
Date Collected: 06/19/18 15:00
Date Received: 06/19/18 17:30
Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
pH, Field	SM 4500-H+ B	7.26	pH Units	-	1	06/19/18 15:00	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-87-09 (1) 180619
Lab Code: R1805705-011

Service Request: R1805705
Date Collected: 06/19/18 15:35
Date Received: 06/19/18 17:30
Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
pH, Field	SM 4500-H+ B	7.19	pH Units	-	1	06/19/18 15:35	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-89-15 (1) 180620
Lab Code: R1805705-012

Service Request: R1805705
Date Collected: 06/20/18 10:35
Date Received: 06/20/18 16:08
Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
pH, Field	SM 4500-H+ B	7.58	pH Units	-	1	06/20/18 10:35	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-DW-10 180620
Lab Code: R1805705-013

Service Request: R1805705
Date Collected: 06/20/18 11:25
Date Received: 06/20/18 16:08
Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
pH, Field	SM 4500-H+ B	6.47	pH Units	-	1	06/20/18 11:25	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-87-08 (1) 180620
Lab Code: R1805705-014

Service Request: R1805705
Date Collected: 06/20/18 11:55
Date Received: 06/20/18 16:08
Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
pH, Field	SM 4500-H+ B	7.18	pH Units	-	1	06/20/18 11:55	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-DW-9 180620
Lab Code: R1805705-015

Service Request: R1805705
Date Collected: 06/20/18 12:20
Date Received: 06/20/18 16:08
Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
pH, Field	SM 4500-H+ B	7.84	pH Units	-	1	06/20/18 12:20	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-B-10A (1) 180620
Lab Code: R1805705-016

Service Request: R1805705
Date Collected: 06/20/18 13:05
Date Received: 06/20/18 16:08
Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
pH, Field	SM 4500-H+ B	7.25	pH Units	-	1	06/20/18 13:05	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-87-13 (1) 180620
Lab Code: R1805705-017

Service Request: R1805705
Date Collected: 06/20/18 13:40
Date Received: 06/20/18 16:08
Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
pH, Field	SM 4500-H+ B	6.47	pH Units	-	1	06/20/18 13:40	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: BAT-87-17 (1) 180620
Lab Code: R1805705-018

Service Request: R1805705
Date Collected: 06/20/18 14:15
Date Received: 06/20/18 16:08
Basis: NA

Field Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
pH, Field	SM 4500-H+ B	7.25	pH Units	-	1	06/20/18 14:15	



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

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1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623

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QA/QC Report

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

Service Request: R1805705

SURROGATE RECOVERY SUMMARY
Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Extraction Method: EPA 5030C

Sample Name	Lab Code	4-Bromofluorobenzene	Toluene-d8	Dibromofluoromethane
		85-122	87-121	89-119
BAT-87-02 (1) 180619	R1805705-001	89	98	99
BAT-87-20 (1) 180619	R1805705-007	90	100	99
BAT-DW-11 180619	R1805705-009	90	99	97
BAT-89-15 (1) 180620	R1805705-012	97	107	104
BAT-87-08 (1) 180620	R1805705-014	90	101	98
BAT-B-10A (1) 180620	R1805705-016	90	99	99
BAT-87-17 (1) 180620	R1805705-018	93	101	102
Method Blank	RQ1806599-04	91	102	97
Lab Control Sample	RQ1806599-03	98	100	104
BAT-87-01 (1) 180619	R1805705-002	93	103	105
BAT-87-12 (1) 180619	R1805705-003	93	100	102
BAT-89-12 (1) 180619	R1805705-004	91	101	100
BAT-DW-12 180619	R1805705-005	90	100	97
BAT-89-10 (1) 180619	R1805705-006	91	101	98
BAT-87-22 (1) 180619	R1805705-008	95	101	101
BAT-B-14 (1) 180619	R1805705-010	90	99	102
BAT-87-09 (1) 180619	R1805705-011	92	101	104
BAT-DW-10 180620	R1805705-013	92	100	98
BAT-DW-9 180620	R1805705-015	94	102	99
BAT-87-13 (1) 180620	R1805705-017	90	100	100
Method Blank	RQ1806595-04	91	98	96
Lab Control Sample	RQ1806595-03	98	100	99
BAT-DW-9 180620 MS	RQ1806595-05	104	103	101
BAT-DW-9 180620 DMS	RQ1806595-06	100	101	101

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QA/QC Report

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

Service Request: R1805705
Date Collected: 06/20/18
Date Received: 06/20/18
Date Analyzed: 06/27/18

Duplicate Matrix Spike Summary
Volatile Organic Compounds by GC/MS

Sample Name: BAT-DW-9 180620
Lab Code: R1805705-015
Analysis Method: 8260C

Units: ug/L
Basis: NA

Analyte Name	Matrix Spike RQ1806595-05				Duplicate Matrix Spike RQ1806595-06				% Rec Limits	RPD	RPD Limit
	Sample Result	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec				
Chloromethane	1.0 U	40.1	50.0	80	40.0	50.0	80	55-160	<1	30	
Vinyl Chloride	1.7	40.2	50.0	77	41.5	50.0	79	74-159	3	30	
Chloroethane	1.0 U	48.3	50.0	97	39.1	50.0	78	48-146	21	30	
Bromomethane	1.0 U	23.0	50.0	46	22.2	50.0	44	10-184	3	30	
1,1-Dichloroethene	1.0 U	46.1	50.0	92	45.9	50.0	92	71-118	<1	30	
Acetone	5.0 U	47.6	50.0	95	44.9	50.0	90	35-183	6	30	
Carbon Disulfide	1.0 U	50.5	50.0	101	50.7	50.0	101	59-140	<1	30	
Methylene Chloride	0.58 J	45.2	50.0	89	45.6	50.0	90	73-122	<1	30	
trans-1,2-Dichloroethene	1.0 U	48.8	50.0	98	49.0	50.0	98	73-118	<1	30	
1,1-Dichloroethane	1.0 U	50.3	50.0	101	50.7	50.0	101	74-132	<1	30	
cis-1,2-Dichloroethene	6.8	55.0	50.0	96	55.4	50.0	97	77-127	<1	30	
2-Butanone (MEK)	5.0 U	59.6	50.0	119	58.7	50.0	117	61-137	1	30	
Chloroform	1.0 U	50.1	50.0	100	49.2	50.0	98	75-130	2	30	
1,1,1-Trichloroethane	1.0 U	55.1	50.0	110	54.4	50.0	109	74-127	1	30	
Carbon Tetrachloride	1.0 U	55.6	50.0	111	55.8	50.0	112	65-135	<1	30	
Benzene	1.0 U	45.3	50.0	91	45.0	50.0	90	76-129	<1	30	
1,2-Dichloroethane	1.0 U	49.4	50.0	99	48.8	50.0	98	68-130	1	30	
Trichloroethene	11	56.3	50.0	91	55.7	50.0	90	74-122	1	30	
1,2-Dichloropropane	1.0 U	48.7	50.0	97	48.5	50.0	97	79-124	<1	30	
Bromodichloromethane	1.0 U	51.3	50.0	103	50.7	50.0	101	78-133	1	30	
cis-1,3-Dichloropropene	1.0 U	50.6	50.0	101	50.6	50.0	101	52-134	<1	30	
4-Methyl-2-pentanone (MIBK)	5.0 U	61.3	50.0	123	59.5	50.0	119	60-141	3	30	
Toluene	1.0 U	50.3	50.0	101	48.8	50.0	98	79-119	3	30	
trans-1,3-Dichloropropene	1.0 U	53.9	50.0	108	53.8	50.0	108	71-133	<1	30	
1,1,2-Trichloroethane	1.0 U	49.0	50.0	98	48.7	50.0	97	82-121	<1	30	
Tetrachloroethene	1.0 U	46.7	50.0	93	44.1	50.0	88	72-125	6	30	
2-Hexanone	5.0 U	58.0	50.0	116	56.8	50.0	114	56-132	2	30	
Dibromochloromethane	1.0 U	54.4	50.0	109	53.5	50.0	107	72-128	2	30	
Chlorobenzene	1.0 U	48.5	50.0	97	46.8	50.0	94	76-125	4	30	
Ethylbenzene	1.0 U	51.3	50.0	103	51.3	50.0	103	72-134	<1	30	
m,p-Xylenes	2.0 U	103	100	103	99.1	100	99	80-126	4	30	
o-Xylene	1.0 U	50.0	50.0	100	47.5	50.0	95	79-123	5	30	
Styrene	1.0 U	52.9	50.0	106	50.0	50.0	100	74-136	6	30	
Bromoform	1.0 U	52.0	50.0	104	51.3	50.0	103	58-133	1	30	
1,1,2,2-Tetrachloroethane	1.0 U	47.9	50.0	96	47.5	50.0	95	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.

ALS Group USA, Corp.
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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ1806595-04

Service Request: R1805705
Date Collected: NA
Date Received: NA
Units: ug/L
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	0.28	1	06/27/18 10:59	
Vinyl Chloride	1.0 U	1.0	0.22	1	06/27/18 10:59	
Chloroethane	1.0 U	1.0	0.23	1	06/27/18 10:59	
Bromomethane	1.0 U	1.0	0.70	1	06/27/18 10:59	
1,1-Dichloroethene	1.0 U	1.0	0.28	1	06/27/18 10:59	
Acetone	5.0 U	5.0	2.1	1	06/27/18 10:59	
Carbon Disulfide	1.0 U	1.0	0.31	1	06/27/18 10:59	
Methylene Chloride	1.0 U	1.0	0.47	1	06/27/18 10:59	
trans-1,2-Dichloroethene	1.0 U	1.0	0.26	1	06/27/18 10:59	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	06/27/18 10:59	
cis-1,2-Dichloroethene	1.0 U	1.0	0.26	1	06/27/18 10:59	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	06/27/18 10:59	
Chloroform	1.0 U	1.0	0.28	1	06/27/18 10:59	
1,1,1-Trichloroethane	1.0 U	1.0	0.25	1	06/27/18 10:59	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	06/27/18 10:59	
Benzene	1.0 U	1.0	0.20	1	06/27/18 10:59	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	06/27/18 10:59	
Trichloroethene	1.0 U	1.0	0.20	1	06/27/18 10:59	
1,2-Dichloropropane	1.0 U	1.0	0.21	1	06/27/18 10:59	
Bromodichloromethane	1.0 U	1.0	0.31	1	06/27/18 10:59	
cis-1,3-Dichloropropene	1.0 U	1.0	0.30	1	06/27/18 10:59	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.29	1	06/27/18 10:59	
Toluene	1.0 U	1.0	0.20	1	06/27/18 10:59	
trans-1,3-Dichloropropene	1.0 U	1.0	0.30	1	06/27/18 10:59	
1,1,2-Trichloroethane	1.0 U	1.0	0.25	1	06/27/18 10:59	
Tetrachloroethene	1.0 U	1.0	0.28	1	06/27/18 10:59	
2-Hexanone	5.0 U	5.0	0.34	1	06/27/18 10:59	
Dibromochloromethane	1.0 U	1.0	0.20	1	06/27/18 10:59	
Chlorobenzene	1.0 U	1.0	0.20	1	06/27/18 10:59	
Ethylbenzene	1.0 U	1.0	0.20	1	06/27/18 10:59	
m,p-Xylenes	2.0 U	2.0	0.21	1	06/27/18 10:59	
o-Xylene	1.0 U	1.0	0.20	1	06/27/18 10:59	
Styrene	1.0 U	1.0	0.20	1	06/27/18 10:59	
Bromoform	1.0 U	1.0	0.36	1	06/27/18 10:59	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/27/18 10:59	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ1806595-04

Service Request: R1805705
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85 - 122	06/27/18 10:59	
Toluene-d8	98	87 - 121	06/27/18 10:59	
Dibromofluoromethane	96	89 - 119	06/27/18 10:59	

ALS Group USA, Corp.
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Analytical Report

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

Service Request: R1805705
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1806599-04

Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Analyte Name	Result	MRL	MDL	Dil.	Date Analyzed	Q
Chloromethane	1.0 U	1.0	0.28	1	06/28/18 11:46	
Vinyl Chloride	1.0 U	1.0	0.22	1	06/28/18 11:46	
Chloroethane	1.0 U	1.0	0.23	1	06/28/18 11:46	
Bromomethane	1.0 U	1.0	0.70	1	06/28/18 11:46	
1,1-Dichloroethene	1.0 U	1.0	0.28	1	06/28/18 11:46	
Acetone	5.0 U	5.0	2.1	1	06/28/18 11:46	
Carbon Disulfide	1.0 U	1.0	0.31	1	06/28/18 11:46	
Methylene Chloride	1.0 U	1.0	0.47	1	06/28/18 11:46	
trans-1,2-Dichloroethene	1.0 U	1.0	0.26	1	06/28/18 11:46	
1,1-Dichloroethane	1.0 U	1.0	0.20	1	06/28/18 11:46	
cis-1,2-Dichloroethene	1.0 U	1.0	0.26	1	06/28/18 11:46	
2-Butanone (MEK)	5.0 U	5.0	0.78	1	06/28/18 11:46	
Chloroform	1.0 U	1.0	0.28	1	06/28/18 11:46	
1,1,1-Trichloroethane	1.0 U	1.0	0.25	1	06/28/18 11:46	
Carbon Tetrachloride	1.0 U	1.0	0.34	1	06/28/18 11:46	
Benzene	1.0 U	1.0	0.20	1	06/28/18 11:46	
1,2-Dichloroethane	1.0 U	1.0	0.20	1	06/28/18 11:46	
Trichloroethene	1.0 U	1.0	0.20	1	06/28/18 11:46	
1,2-Dichloropropane	1.0 U	1.0	0.21	1	06/28/18 11:46	
Bromodichloromethane	1.0 U	1.0	0.31	1	06/28/18 11:46	
cis-1,3-Dichloropropene	1.0 U	1.0	0.30	1	06/28/18 11:46	
4-Methyl-2-pentanone (MIBK)	5.0 U	5.0	0.29	1	06/28/18 11:46	
Toluene	1.0 U	1.0	0.20	1	06/28/18 11:46	
trans-1,3-Dichloropropene	1.0 U	1.0	0.30	1	06/28/18 11:46	
1,1,2-Trichloroethane	1.0 U	1.0	0.25	1	06/28/18 11:46	
Tetrachloroethene	1.0 U	1.0	0.28	1	06/28/18 11:46	
2-Hexanone	5.0 U	5.0	0.34	1	06/28/18 11:46	
Dibromochloromethane	1.0 U	1.0	0.20	1	06/28/18 11:46	
Chlorobenzene	1.0 U	1.0	0.20	1	06/28/18 11:46	
Ethylbenzene	1.0 U	1.0	0.20	1	06/28/18 11:46	
m,p-Xylenes	2.0 U	2.0	0.21	1	06/28/18 11:46	
o-Xylene	1.0 U	1.0	0.20	1	06/28/18 11:46	
Styrene	1.0 U	1.0	0.20	1	06/28/18 11:46	
Bromoform	1.0 U	1.0	0.36	1	06/28/18 11:46	
1,1,2,2-Tetrachloroethane	1.0 U	1.0	0.20	1	06/28/18 11:46	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: RQ1806599-04

Service Request: R1805705
Date Collected: NA
Date Received: NA
Units: ug/L
Basis: NA

Volatile Organic Compounds by GC/MS

Analysis Method: 8260C
Prep Method: EPA 5030C

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
4-Bromofluorobenzene	91	85 - 122	06/28/18 11:46	
Toluene-d8	102	87 - 121	06/28/18 11:46	
Dibromofluoromethane	97	89 - 119	06/28/18 11:46	

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QA/QC Report

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

Service Request: R1805705
Date Analyzed: 06/27/18

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1806595-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chloromethane	8260C	17.1	20.0	85	65-135
Vinyl Chloride	8260C	15.9	20.0	79	74-159
Chloroethane	8260C	14.6	20.0	73	62-131
Bromomethane	8260C	15.8	20.0	79	42-166
1,1-Dichloroethene	8260C	18.1	20.0	90	71-118
Acetone	8260C	19.9	20.0	99	40-161
Carbon Disulfide	8260C	19.2	20.0	96	66-128
Methylene Chloride	8260C	18.8	20.0	94	73-122
trans-1,2-Dichloroethene	8260C	18.7	20.0	93	73-118
1,1-Dichloroethane	8260C	19.7	20.0	98	80-124
cis-1,2-Dichloroethene	8260C	19.0	20.0	95	80-121
2-Butanone (MEK)	8260C	22.2	20.0	111	61-137
Chloroform	8260C	19.0	20.0	95	79-120
1,1,1-Trichloroethane	8260C	21.2	20.0	106	75-125
Carbon Tetrachloride	8260C	21.9	20.0	109	70-127
Benzene	8260C	17.6	20.0	88	79-119
1,2-Dichloroethane	8260C	19.4	20.0	97	71-127
Trichloroethene	8260C	19.4	20.0	97	74-122
1,2-Dichloropropane	8260C	18.2	20.0	91	80-119
Bromodichloromethane	8260C	19.7	20.0	98	81-123
cis-1,3-Dichloropropene	8260C	20.6	20.0	103	77-122
4-Methyl-2-pentanone (MIBK)	8260C	22.0	20.0	110	66-124
Toluene	8260C	19.4	20.0	97	79-119
trans-1,3-Dichloropropene	8260C	22.3	20.0	112	71-133
1,1,2-Trichloroethane	8260C	19.9	20.0	99	82-121
Tetrachloroethene	8260C	18.5	20.0	93	72-125
2-Hexanone	8260C	20.7	20.0	104	63-124
Dibromochloromethane	8260C	21.7	20.0	109	72-128
Chlorobenzene	8260C	19.0	20.0	95	80-121
Ethylbenzene	8260C	19.9	20.0	99	76-120
m,p-Xylenes	8260C	39.3	40.0	98	80-126
o-Xylene	8260C	19.1	20.0	95	79-123
Styrene	8260C	19.9	20.0	99	80-124

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QA/QC Report

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

Service Request: R1805705

Date Analyzed: 06/27/18

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L

Basis:NA

Lab Control Sample

RQ1806595-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Bromoform	8260C	20.8	20.0	104	65-146
1,1,2,2-Tetrachloroethane	8260C	18.1	20.0	91	78-126

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QA/QC Report

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

Service Request: R1805705
Date Analyzed: 06/28/18

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1806599-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chloromethane	8260C	17.1	20.0	85	65-135
Vinyl Chloride	8260C	16.4	20.0	82	74-159
Chloroethane	8260C	14.5	20.0	73	62-131
Bromomethane	8260C	14.6	20.0	73	42-166
1,1-Dichloroethene	8260C	18.1	20.0	91	71-118
Acetone	8260C	19.7	20.0	98	40-161
Carbon Disulfide	8260C	20.7	20.0	104	66-128
Methylene Chloride	8260C	17.6	20.0	88	73-122
trans-1,2-Dichloroethene	8260C	18.9	20.0	94	73-118
1,1-Dichloroethane	8260C	19.4	20.0	97	80-124
cis-1,2-Dichloroethene	8260C	19.0	20.0	95	80-121
2-Butanone (MEK)	8260C	21.3	20.0	107	61-137
Chloroform	8260C	19.3	20.0	97	79-120
1,1,1-Trichloroethane	8260C	22.1	20.0	110	75-125
Carbon Tetrachloride	8260C	22.3	20.0	111	70-127
Benzene	8260C	18.2	20.0	91	79-119
1,2-Dichloroethane	8260C	20.1	20.0	100	71-127
Trichloroethene	8260C	19.1	20.0	95	74-122
1,2-Dichloropropane	8260C	19.0	20.0	95	80-119
Bromodichloromethane	8260C	20.7	20.0	104	81-123
cis-1,3-Dichloropropene	8260C	20.8	20.0	104	77-122
4-Methyl-2-pentanone (MIBK)	8260C	22.5	20.0	112	66-124
Toluene	8260C	18.8	20.0	94	79-119
trans-1,3-Dichloropropene	8260C	23.0	20.0	115	71-133
1,1,2-Trichloroethane	8260C	19.8	20.0	99	82-121
Tetrachloroethene	8260C	18.3	20.0	91	72-125
2-Hexanone	8260C	21.7	20.0	108	63-124
Dibromochloromethane	8260C	23.4	20.0	117	72-128
Chlorobenzene	8260C	18.5	20.0	93	80-121
Ethylbenzene	8260C	19.4	20.0	97	76-120
m,p-Xylenes	8260C	38.7	40.0	97	80-126
o-Xylene	8260C	18.7	20.0	94	79-123
Styrene	8260C	19.6	20.0	98	80-124

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QA/QC Report

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

Service Request: R1805705
Date Analyzed: 06/28/18

Lab Control Sample Summary
Volatile Organic Compounds by GC/MS

Units:ug/L
Basis:NA

Lab Control Sample
RQ1806599-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Bromoform	8260C	20.5	20.0	102	65-146
1,1,2,2-Tetrachloroethane	8260C	18.4	20.0	92	78-126



Volatile Organic Compounds by GC

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Analytical Report

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

Service Request: R1805705
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1806413-04

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	1.0 U	1.0	1	06/26/18 14:04	
Ethene	1.0 U	1.0	1	06/26/18 14:04	
Methane	1.1 U	1.1	1	06/26/18 14:04	

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Analytical Report

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

Service Request: R1805705
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1806468-01

Units: ug/L
Basis: NA

Dissolved Gases by GC/FID

Analysis Method: RSK 175

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Ethane	1.0 U	1.0	1	06/27/18 11:16	
Ethene	1.0 U	1.0	1	06/27/18 11:16	
Methane	1.1 U	1.1	1	06/27/18 11:16	

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QA/QC Report

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

Service Request: R1805705
Date Analyzed: 06/26/18

Duplicate Lab Control Sample Summary
Dissolved Gases by GC/FID

Units:ug/L
Basis:NA

Lab Control Sample
RQ1806413-05

Duplicate Lab Control Sample
RQ1806413-06

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Ethane	RSK 175	27.2	26.0	104	27.8	26.0	107	76-126	2	20
Ethene	RSK 175	26.8	24.3	110	27.5	24.3	113	73-129	3	20
Methane	RSK 175	27.2	26.2	104	27.5	26.2	105	75-128	1	20

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QA/QC Report

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

Service Request: R1805705
Date Analyzed: 06/27/18

Duplicate Lab Control Sample Summary
Dissolved Gases by GC/FID

Units:ug/L
Basis:NA

Lab Control Sample
RQ1806468-02

Duplicate Lab Control Sample
RQ1806468-03

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	% Rec Limits	RPD	RPD Limit
Ethane	RSK 175	29.2	26.0	112	28.6	26.0	110	76-126	2	20
Ethene	RSK 175	28.0	24.3	115	27.8	24.3	114	73-129	<1	20
Methane	RSK 175	29.3	26.2	112	28.8	26.2	110	75-128	2	20



Semivolatile Organic Compounds by GC

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QA/QC Report

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

Service Request: R1805705
Date Collected: 06/20/18
Date Received: 06/20/18
Date Analyzed: 06/27/18

Duplicate Matrix Spike Summary

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Sample Name: BAT-87-17 (1) 180620
Lab Code: R1805705-018
Analysis Method: Organic Acids

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike RQ1806439-04			Duplicate Matrix Spike RQ1806439-05			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Pyruvic Acid	0.50 U	1.37	2.01	68	1.51	2.01	75	39-130	10	30
Acetic Acid	1.0 U	17.4	20.1	87	19.0	20.1	94	10-179	9	30
Butanoic Acid (Butyric Acid)	2.0 U	21.9	20.2	108	21.2	20.2	105	39-161	3	30
Lactic Acid	1.0 U	17.8	19.9	89	18.7	19.9	94	48-147	5	30
Propionic Acid	1.0 U	20.2	20.0	101	20.4	20.0	102	49-162	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.

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Analytical Report

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

Service Request: R1805705
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1806439-01

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	06/26/18 16:21	
Acetic Acid	1.0 U	1.0	1	06/26/18 16:21	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	06/26/18 16:21	
Lactic Acid	1.0 U	1.0	1	06/26/18 16:21	
Propionic Acid	1.0 U	1.0	1	06/26/18 16:21	

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Analytical Report

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

Service Request: R1805705
Date Collected: NA
Date Received: NA

Sample Name: Method Blank
Lab Code: RQ1806510-01

Units: mg/L
Basis: NA

Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Analysis Method: Organic Acids

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Pyruvic Acid	0.50 U	0.50	1	06/27/18 09:50	
Acetic Acid	1.0 U	1.0	1	06/27/18 09:50	
Butanoic Acid (Butyric Acid)	2.0 U	2.0	1	06/27/18 09:50	
Lactic Acid	1.0 U	1.0	1	06/27/18 09:50	
Propionic Acid	1.0 U	1.0	1	06/27/18 09:50	

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QA/QC Report

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

Service Request: R1805705
Date Analyzed: 06/26/18

Duplicate Lab Control Sample Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Units:mg/L
Basis:NA

Analyte Name	Analytical Method	Lab Control Sample RQ1806439-02			Duplicate Lab Control Sample RQ1806439-03			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Pyruvic Acid	Organic Acids	1.67	2.01	83	1.65	2.01	82	73-122	1	30
Acetic Acid	Organic Acids	19.5	20.1	97	21.5	20.1	107	80-130	10	30
Butanoic Acid (Butyric Acid)	Organic Acids	20.9	20.2	104	23.0	20.2	114	86-128	10	30
Lactic Acid	Organic Acids	19.5	19.9	98	19.5	19.9	98	75-125	<1	30
Propionic Acid	Organic Acids	20.2	20.0	101	20.6	20.0	103	63-153	2	30

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

Service Request: R1805705
Date Analyzed: 06/27/18

Duplicate Lab Control Sample Summary
Organic Acids in Aqueous Matrices by High Performance Liquid Chromatography (HPLC) 28 Day Hold Time

Units:mg/L
Basis:NA

Analyte Name	Analytical Method	Lab Control Sample RQ1806510-02			Duplicate Lab Control Sample RQ1806510-03			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Pyruvic Acid	Organic Acids	1.62	2.01	81	1.58	2.01	79	73-122	3	30
Acetic Acid	Organic Acids	18.9	20.1	94	20.4	20.1	101	80-130	7	30
Butanoic Acid (Butyric Acid)	Organic Acids	20.5	20.2	102	19.6	20.2	97	86-128	4	30
Lactic Acid	Organic Acids	18.8	19.9	94	18.7	19.9	94	75-125	<1	30
Propionic Acid	Organic Acids	19.9	20.0	99	20.0	20.0	100	63-153	<1	30



General Chemistry

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R1805705-MB1

Service Request: R1805705
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	06/21/18 03:13	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	06/21/18 03:13	
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	1.0 U	mg/L	1.0	1	06/27/18 09:04	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	06/21/18 03:13	
Chloride	9056A	0.20 U	mg/L	0.20	1	06/20/18 16:25	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.10 U	mg/L	0.10	1	06/20/18 09:14	
Nitrate as Nitrogen	9056A	0.10 U	mg/L	0.10	1	06/20/18 09:16	
Sulfate	9056A	0.20 U	mg/L	0.20	1	06/20/18 16:25	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R1805705-MB2

Service Request: R1805705
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	06/21/18 05:23	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	06/21/18 05:23	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	06/21/18 05:23	
Chloride	9056A	0.20 U	mg/L	0.20	1	06/20/18 21:09	
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.10 U	mg/L	0.10	1	06/20/18 22:10	
Nitrate as Nitrogen	9056A	0.10 U	mg/L	0.10	1	06/20/18 21:09	
Sulfate	9056A	0.20 U	mg/L	0.20	1	06/20/18 21:09	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R1805705-MB3

Service Request: R1805705
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	06/26/18 18:49	
Bicarbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	06/26/18 18:49	
Carbonate Alkalinity as CaCO3	SM 2320 B-1997(2011)	2.0 U	mg/L	2.0	1	06/26/18 18:49	
Chloride	9056A	0.20 U	mg/L	0.20	1	06/21/18 09:02	
Nitrate as Nitrogen	9056A	0.10 U	mg/L	0.10	1	06/21/18 09:02	
Sulfate	9056A	0.20 U	mg/L	0.20	1	06/21/18 09:02	

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Analytical Report

Client: APTIM, Inc
Project: Textron Injections/631236330
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: R1805705-MB4

Service Request: R1805705
Date Collected: NA
Date Received: NA
Basis: NA

Inorganic Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Chloride	9056A	0.20 U	mg/L	0.20	1	06/21/18 11:28	
Sulfate	9056A	0.20 U	mg/L	0.20	1	06/21/18 11:28	

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dba ALS Environmental

QA/QC Report

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

Service Request:R1805705
Date Collected:06/19/18
Date Received:06/19/18
Date Analyzed:6/20/18

**Duplicate Matrix Spike Summary
General Chemistry Parameters**

Sample Name: BAT-87-01 (1) 180619
Lab Code: R1805705-002

Units:mg/L
Basis:NA

Matrix Spike
R1805705-002MS

Duplicate Matrix Spike
R1805705-002DMS

Analyte Name	Method	Sample		Spike		Duplicate Matrix Spike		% Rec	Limits	RPD	Limit
		Result	Result	Amount	% Rec	Result	Amount				
Chloride	9056A	266	471	200	102	469	200	102	80-120	<1	15
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.24	0.50	0.40	65	0.50	0.40	65	11-180	<1	20
Sulfate	9056A	360	557	200	99	552	200	96	80-120	<1	15

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.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

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

Service Request:R1805705
Date Collected:06/19/18
Date Received:06/19/18
Date Analyzed:6/20/18

Duplicate Matrix Spike Summary
General Chemistry Parameters

Sample Name: BAT-DW-11 180619
Lab Code: R1805705-009

Units:mg/L
Basis:NA

Matrix Spike
R1805705-009MS

Duplicate Matrix Spike
R1805705-009DMS

Analyte Name	Method	Sample		Spike			Duplicate Matrix Spike		% Rec Limits	RPD	RPD Limit
		Result	Result	Amount	% Rec	Result	Amount	% Rec			
Chloride	9056A	782	942	200	80	942	200	80	80-120	<1	15
Sulfate	9056A	167	362	200	97	363	200	98	80-120	<1	15

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.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

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

Service Request: R1805705
Date Collected: 06/19/18
Date Received: 06/19/18
Date Analyzed: 06/20/18

Duplicate Matrix Spike Summary
Iron, Divalent (Ferrous Iron)

Sample Name: BAT-87-09 (1) 180619
Lab Code: R1805705-011
Analysis Method: SM 3500-Fe B.4.c

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike R1805705-011MS			Duplicate Matrix Spike R1805705-011DMS			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Iron, Divalent (Ferrous Iron)	0.10 U	0.41	0.40	102	0.41	0.40	102	11-180	<1	20

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.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

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

Service Request: R1805705
Date Collected: 06/20/18
Date Received: 06/20/18
Date Analyzed: 06/27/18

Duplicate Matrix Spike Summary
Carbon, Total Organic (TOC)

Sample Name: BAT-DW-10 180620
Lab Code: R1805705-013
Analysis Method: SM 5310 C-2000(2011)

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike R1805705-013MS			Duplicate Matrix Spike R1805705-013DMS			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Carbon, Total Organic (TOC)	107	219	100	112	201	100	94	48-135	8	20

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.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

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

Service Request: R1805705
Date Collected: 06/20/18
Date Received: 06/20/18
Date Analyzed: 06/27/18

Duplicate Matrix Spike Summary
Carbon, Total Organic (TOC)

Sample Name: BAT-87-13 (1) 180620
Lab Code: R1805705-017
Analysis Method: SM 5310 C-2000(2011)

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike R1805705-017MS			Duplicate Matrix Spike R1805705-017DMS			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Carbon, Total Organic (TOC)	270	399	100	129	378	100	109	48-135	5	20

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.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

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

Service Request: R1805705
Date Collected: 06/20/18
Date Received: 06/20/18
Date Analyzed: 06/20/18

Duplicate Matrix Spike Summary
Iron, Divalent (Ferrous Iron)

Sample Name: BAT-87-17 (1) 180620
Lab Code: R1805705-018
Analysis Method: SM 3500-Fe B.4.c

Units: mg/L
Basis: NA

Analyte Name	Sample Result	Matrix Spike R1805705-018MS			Duplicate Matrix Spike R1805705-018DMS			% Rec Limits	RPD	RPD Limit
		Result	Spike Amount	% Rec	Result	Spike Amount	% Rec			
Iron, Divalent (Ferrous Iron)	0.25	0.66	0.40	102	0.67	0.40	105	11-180	2	20

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.

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

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

Service Request: R1805705
Date Analyzed: 06/20/18 - 06/27/18

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1805705-LCS1

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	21.6	20.0	108	80-120
Carbon, Total Organic (TOC)	SM 5310 C-2000(2011)	9.9	10.0	99	80-121
Chloride	9056A	2.00	2.00	100	80-120
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.44	0.40	110	67-129
Nitrate as Nitrogen	9056A	1.0	1.00	100	80-120
Sulfate	9056A	1.98	2.00	99	80-120

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

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

Service Request: R1805705
Date Analyzed: 06/20/18 - 06/21/18

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1805705-LCS2

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	22.0	20.0	110	80-120
Chloride	9056A	2.00	2.00	100	80-120
Iron, Divalent (Ferrous Iron)	SM 3500-Fe B.4.c	0.41	0.40	102	67-129
Nitrate as Nitrogen	9056A	0.98	1.00	98	80-120
Sulfate	9056A	1.99	2.00	100	80-120

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

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

Service Request: R1805705
Date Analyzed: 06/21/18 - 06/26/18

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1805705-LCS3

Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Alkalinity, Total as CaCO3	SM 2320 B-1997(2011)	18.4	20.0	92	80-120
Chloride	9056A	2.04	2.00	102	80-120
Nitrate as Nitrogen	9056A	1.01	1.00	101	80-120
Sulfate	9056A	2.02	2.00	101	80-120

ALS Group USA, Corp.
dba ALS Environmental

QA/QC Report

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

Service Request: R1805705
Date Analyzed: 06/21/18

Lab Control Sample Summary
General Chemistry Parameters

Units:mg/L
Basis:NA

Lab Control Sample
R1805705-LCS4

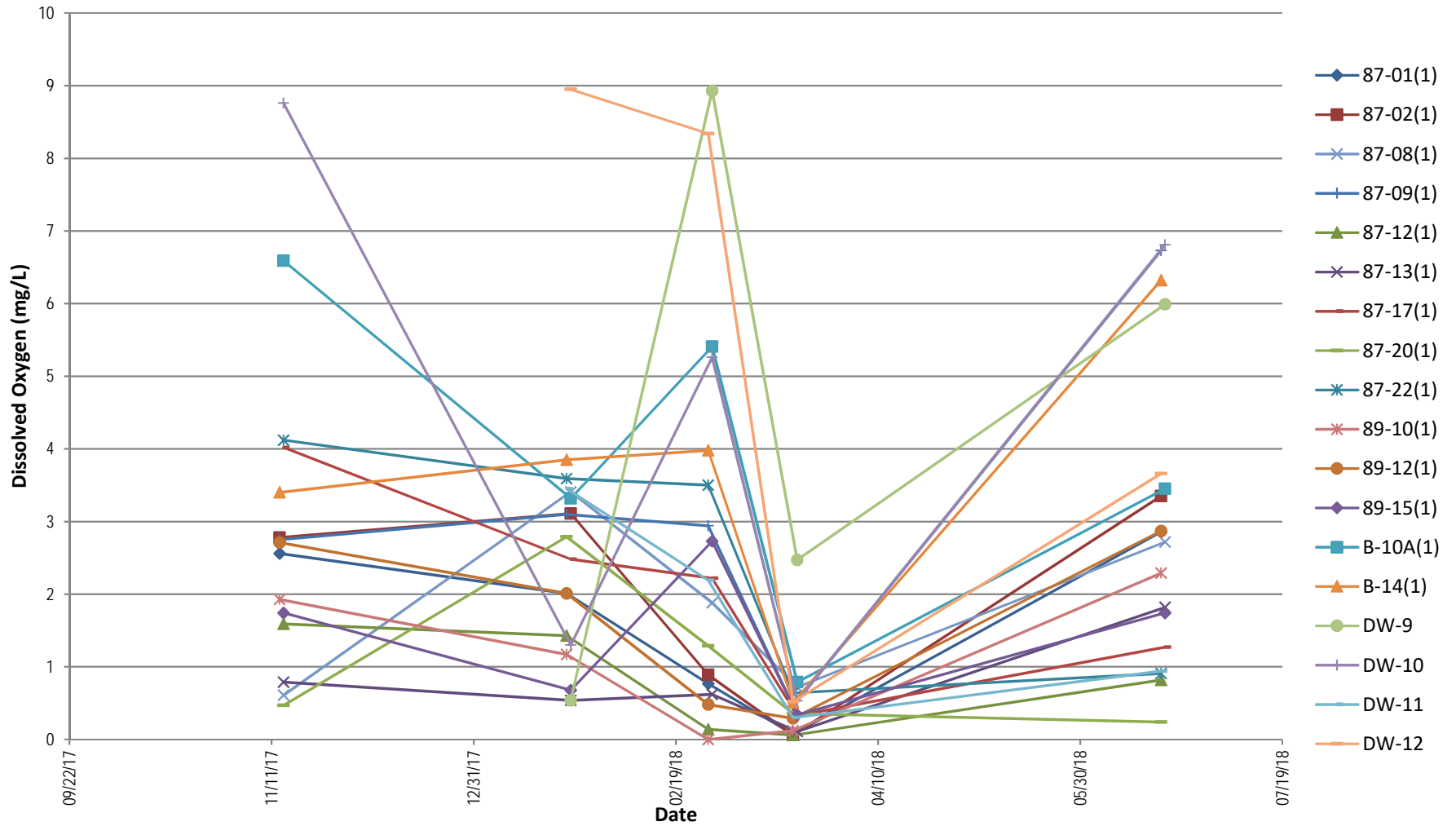
Analyte Name	Analytical Method	Result	Spike Amount	% Rec	% Rec Limits
Chloride	9056A	2.04	2.00	102	80-120
Sulfate	9056A	2.04	2.00	102	80-120

Appendix C

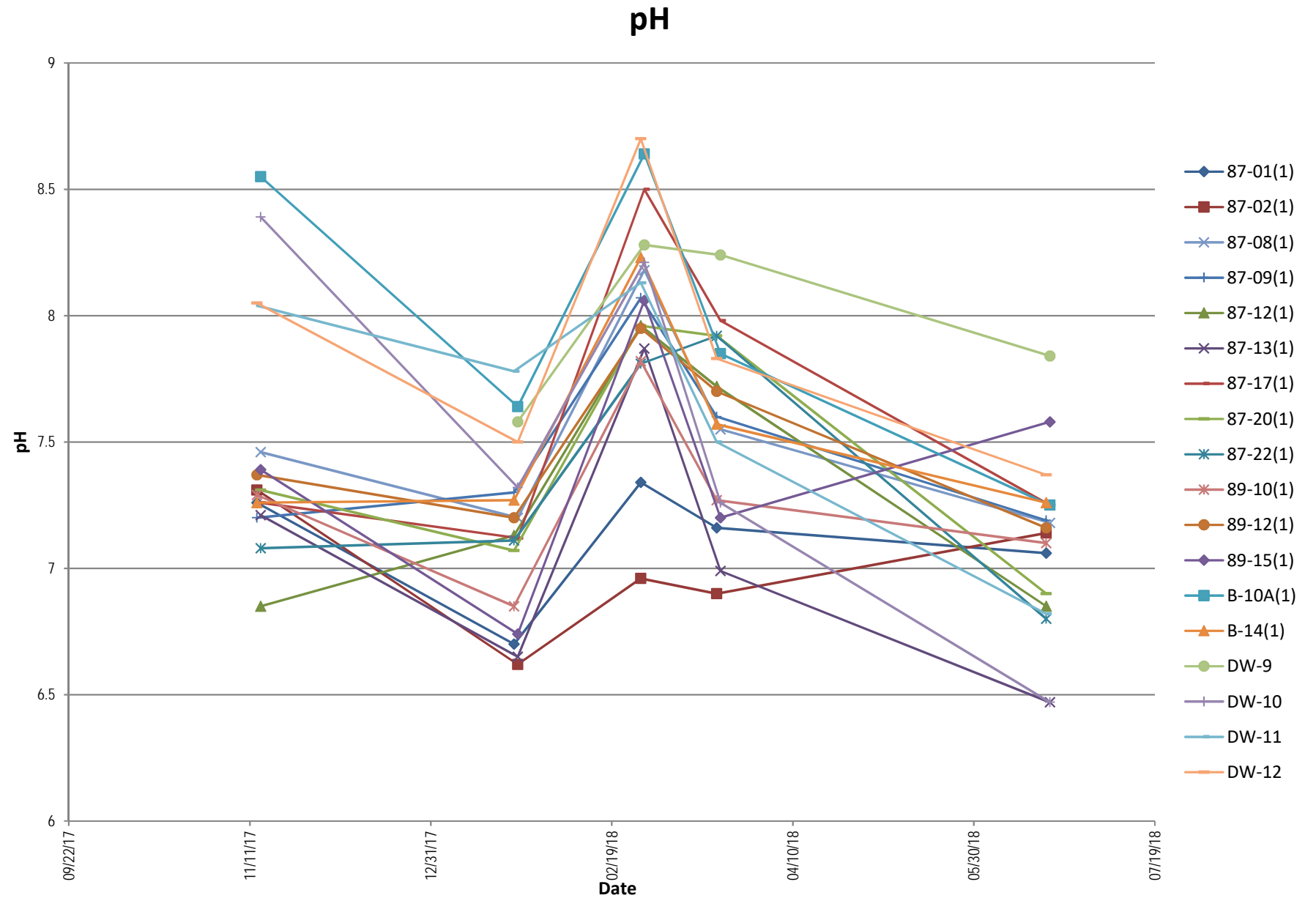
Line Graphs

Graph 1
Dissolved Oxygen
Former Bell Aerospace Textron Wheatfield, New York

Dissolved Oxygen

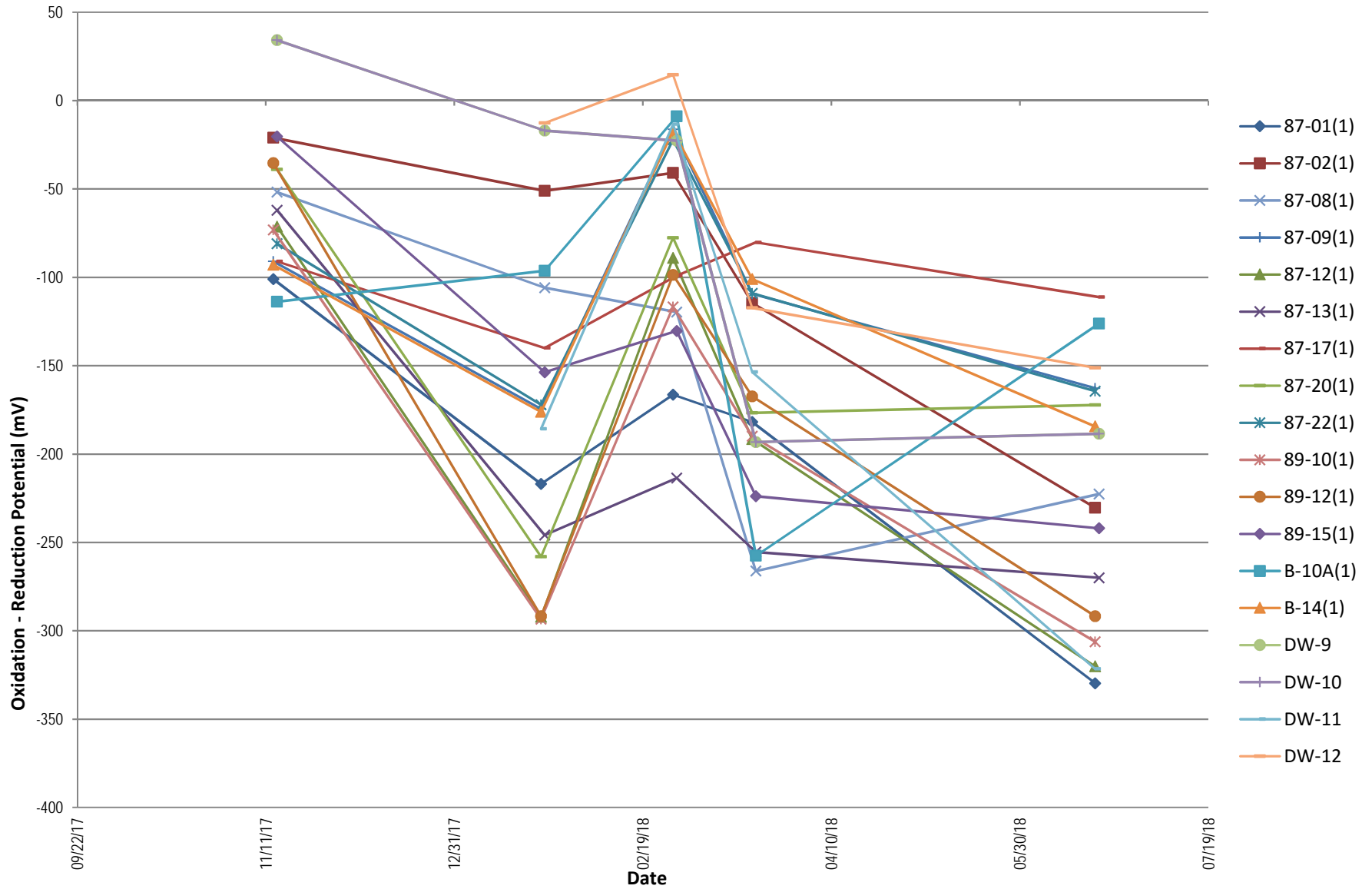


Graph 2
pH
Former Bell Aerospace Textron Wheatfield, New York



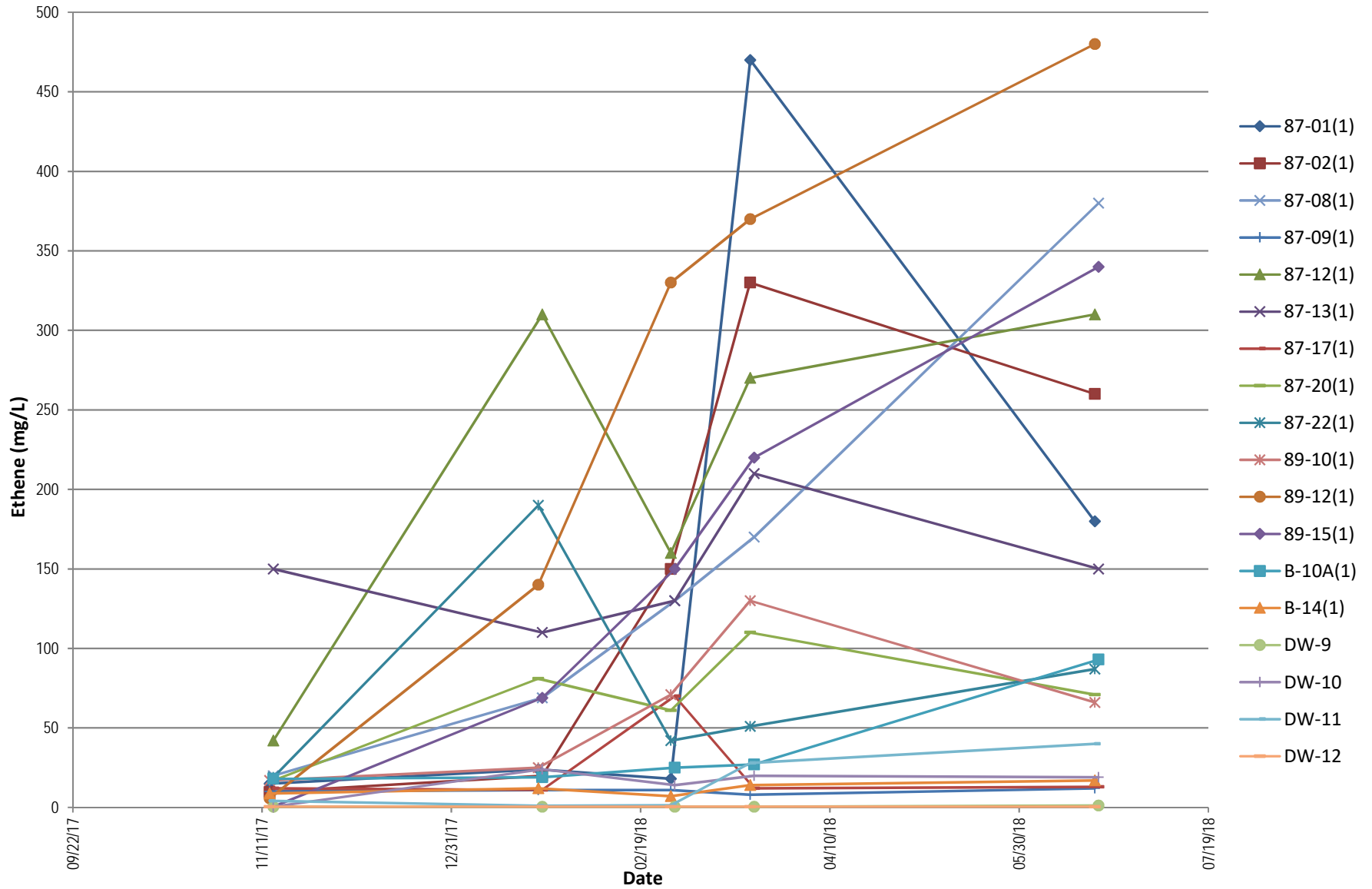
Graph 3
ORP
Former Bell Aerospace Textron Wheatfield, New York

Oxidation-Reduction Potential

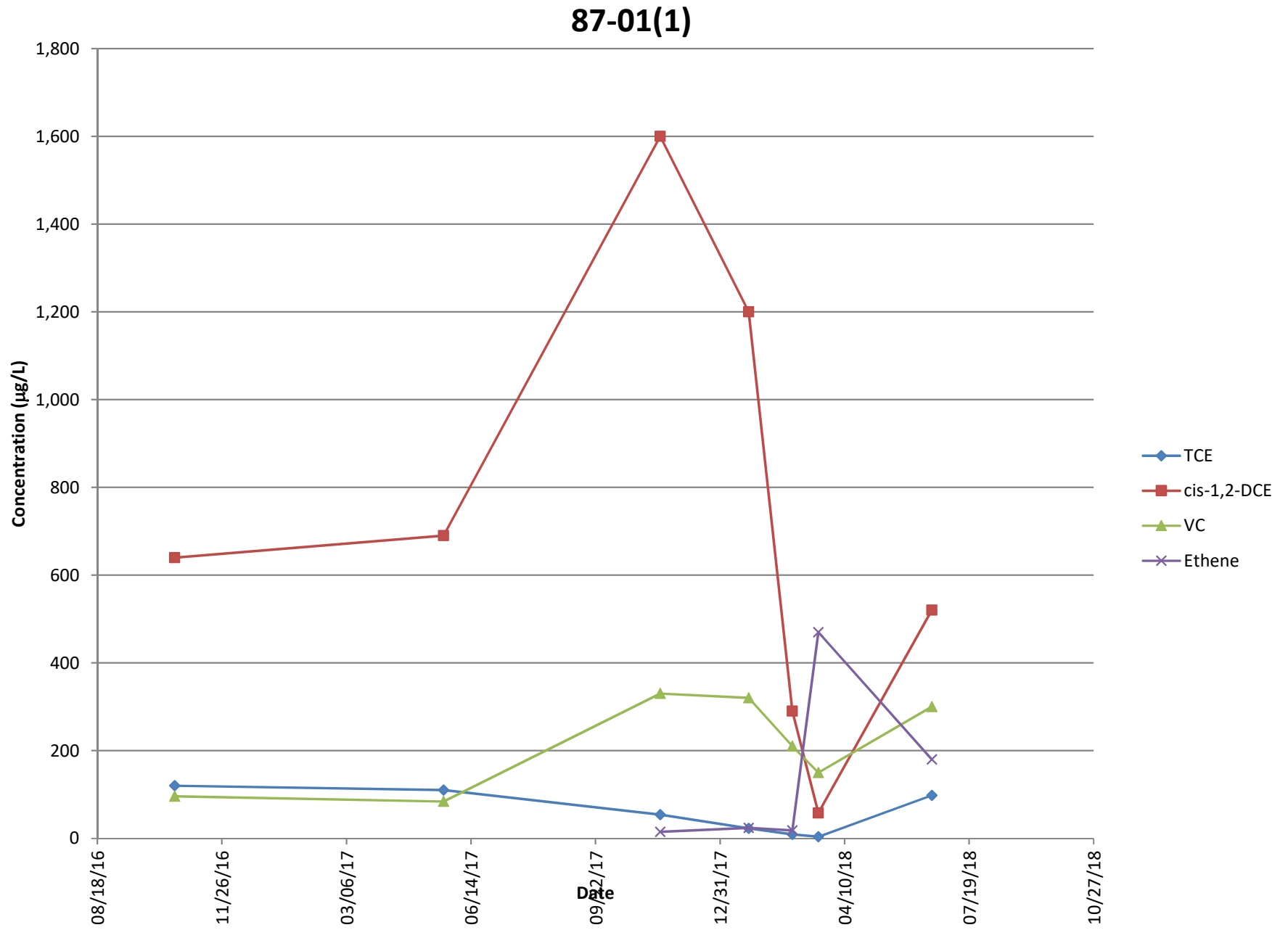


Graph 5
Ethene
Former Bell Aerospace Textron Wheatfield, New York

Ethene

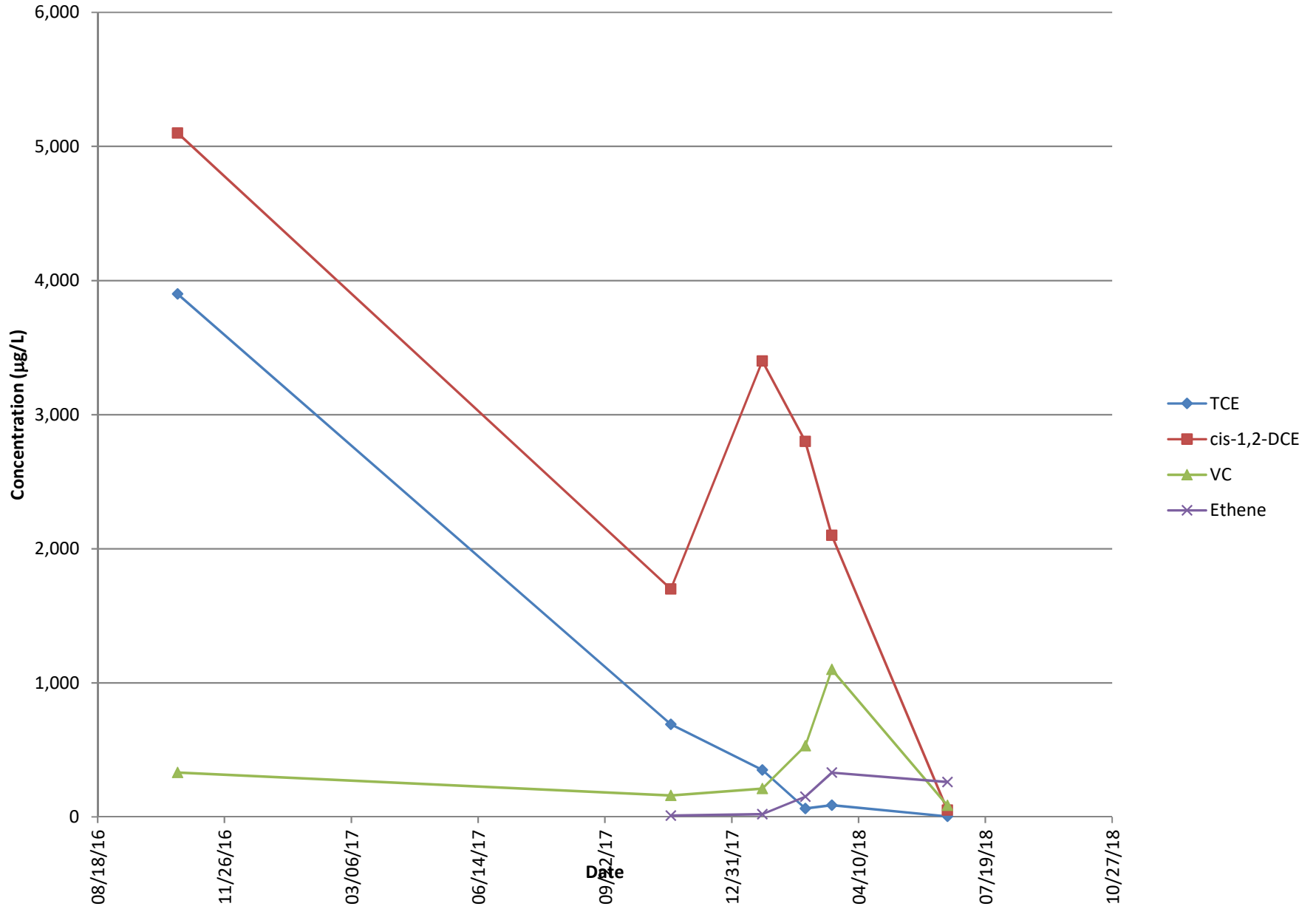


Graph 6
87-01(1) Groundwater Concentration Trend
Former Bell Aerospace Textron Wheatfield, New York



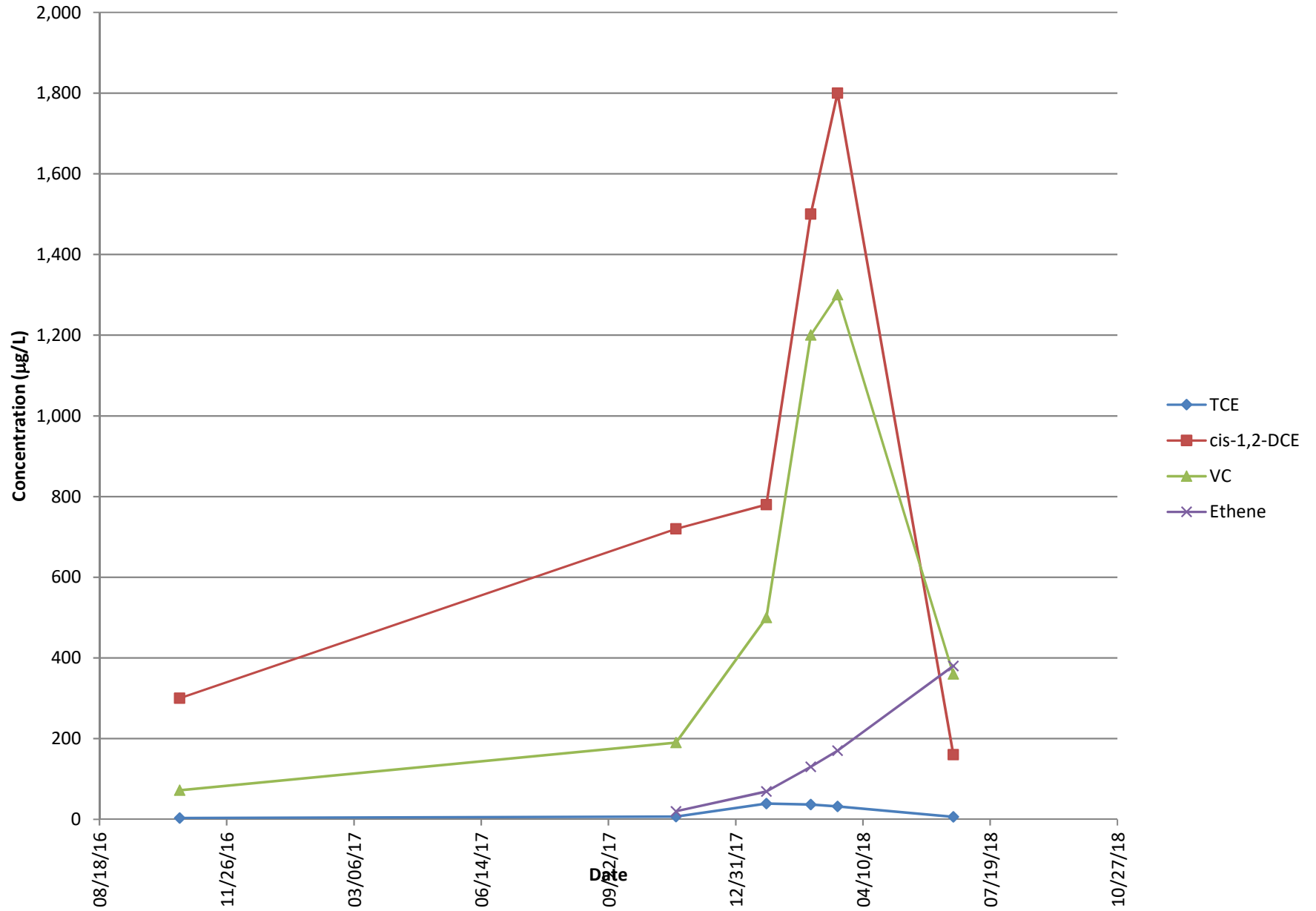
Graph 7
87-02(1) Groundwater Concentration Trend
Former Bell Aerospace Textron Wheatfield, New York

87-02(1)

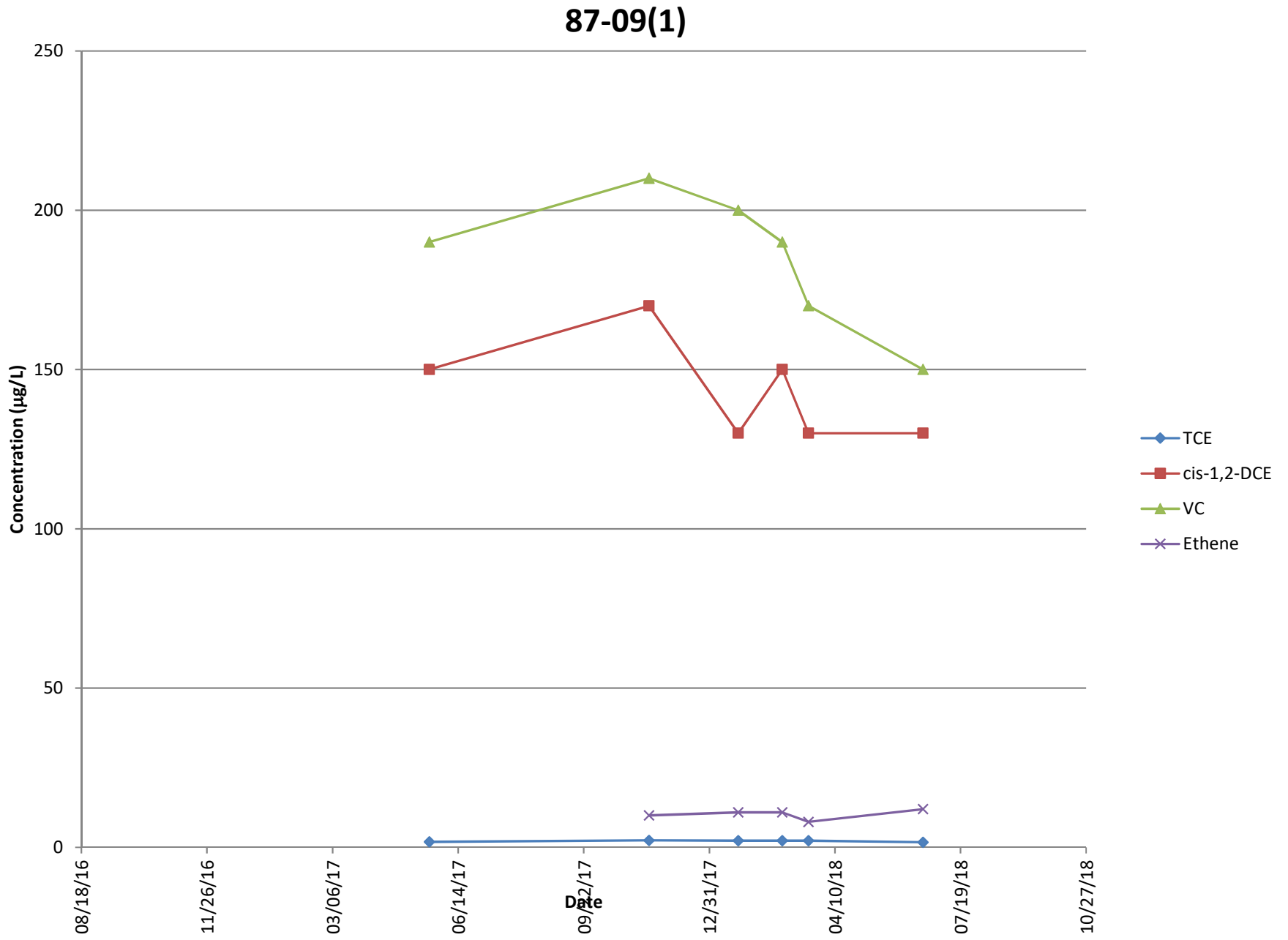


Graph 8
87-08(1) Groundwater Concentration Trend
Former Bell Aerospace Textron Wheatfield, New York

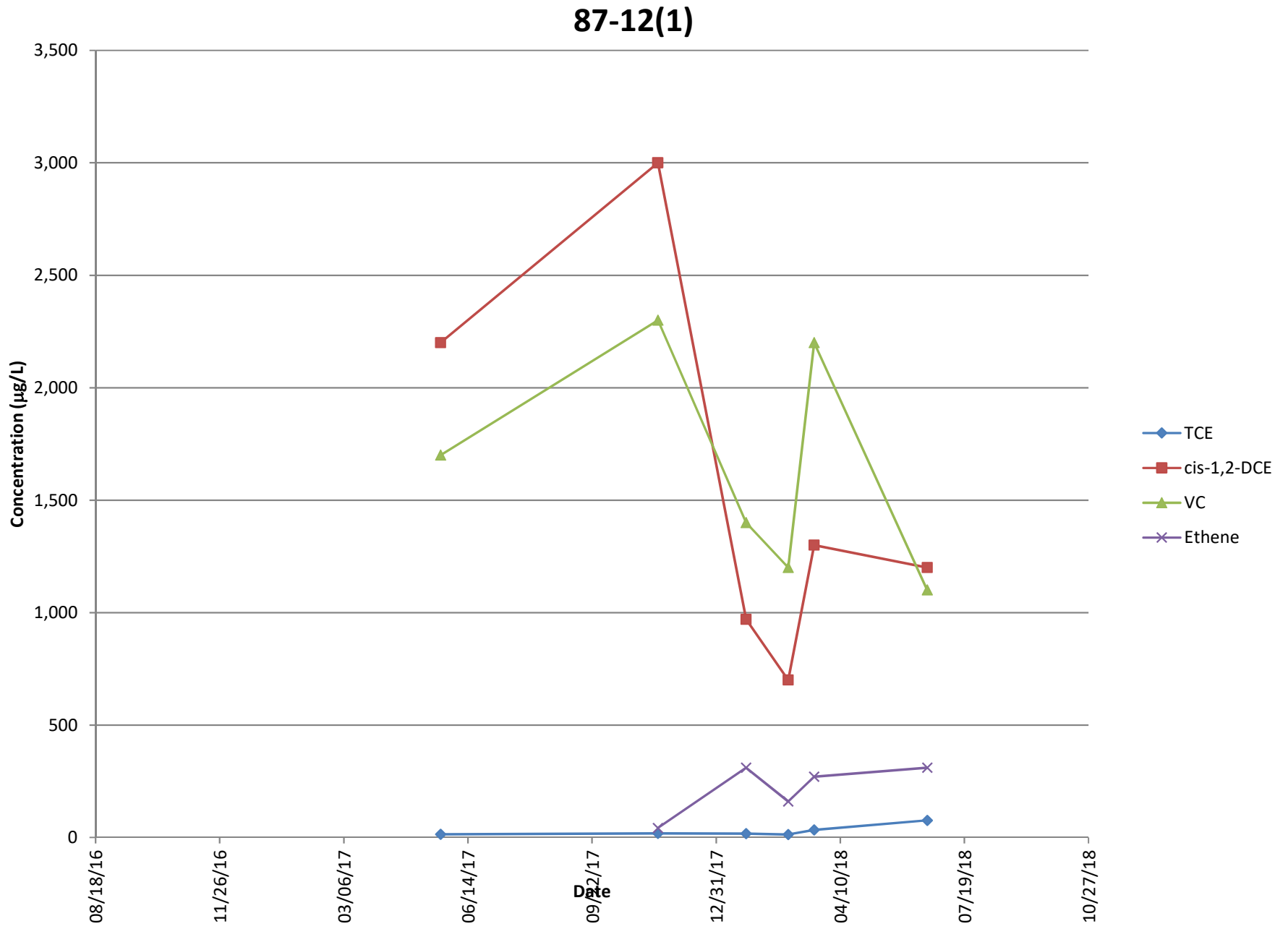
87-08(1)



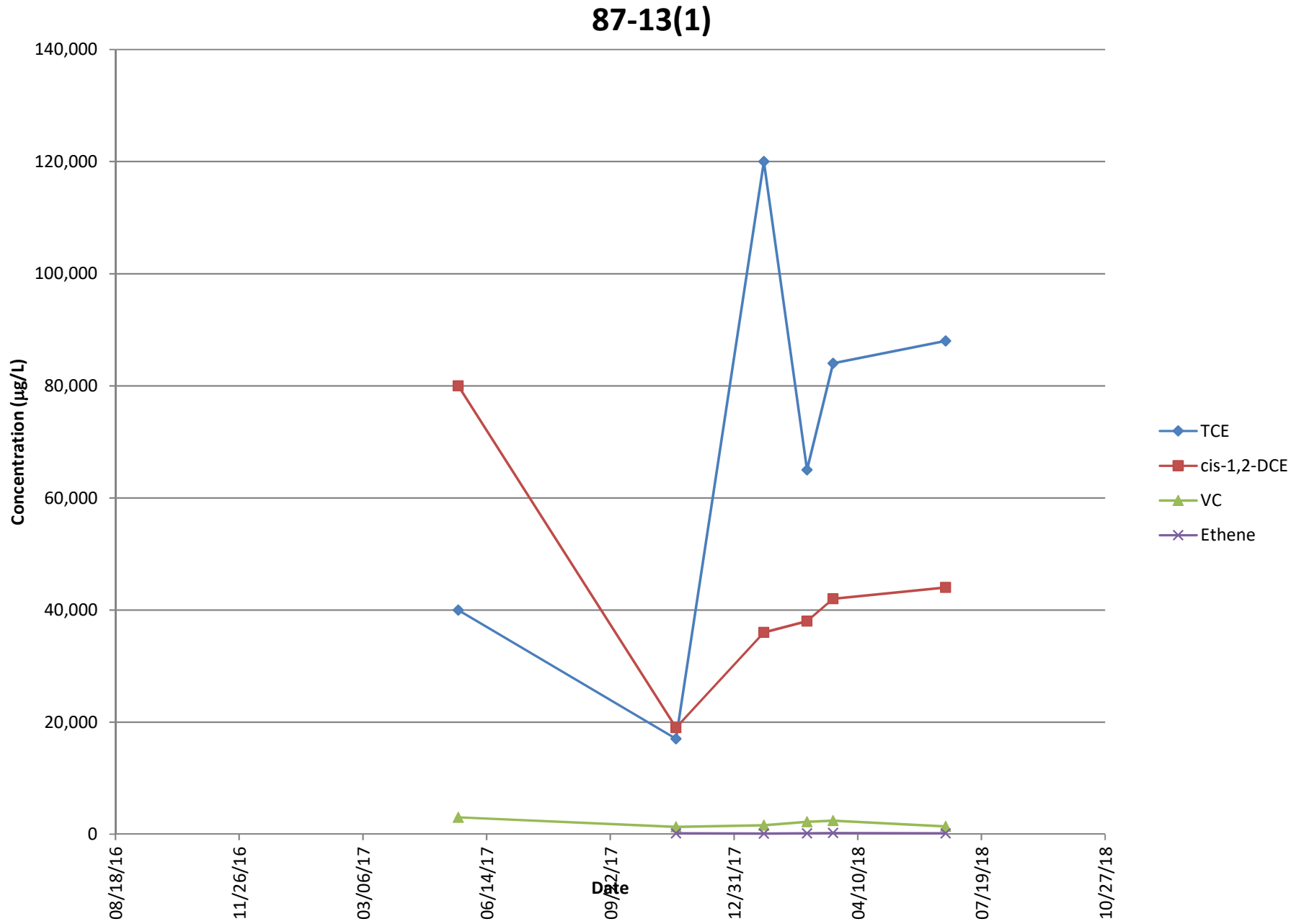
Graph 9
87-09(1) Groundwater Concentration Trend
Former Bell Aerospace Textron Wheatfield, New York



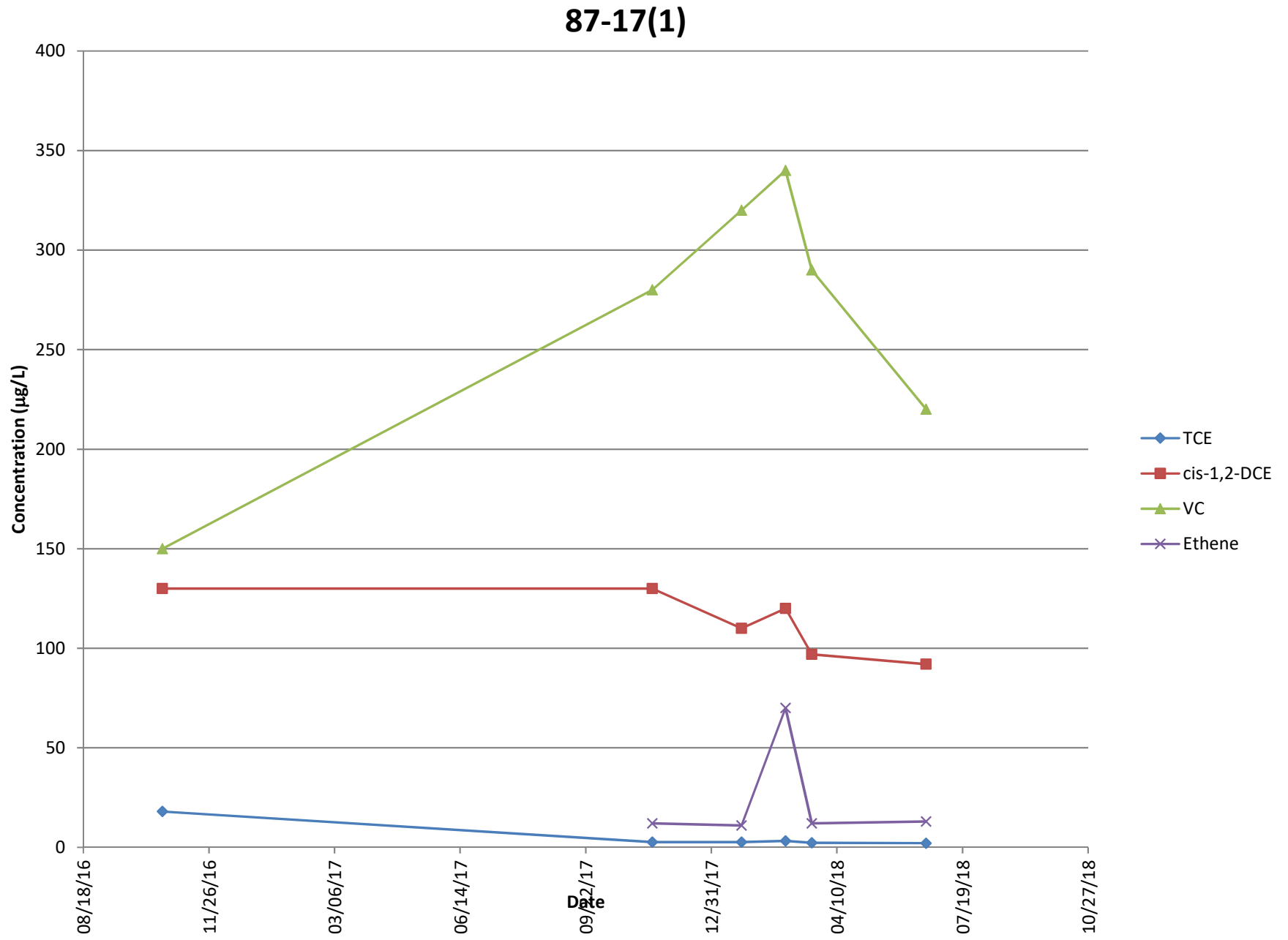
Graph 10
87-12(1) Groundwater Concentration Trend
Former Bell Aerospace Textron Wheatfield, New York



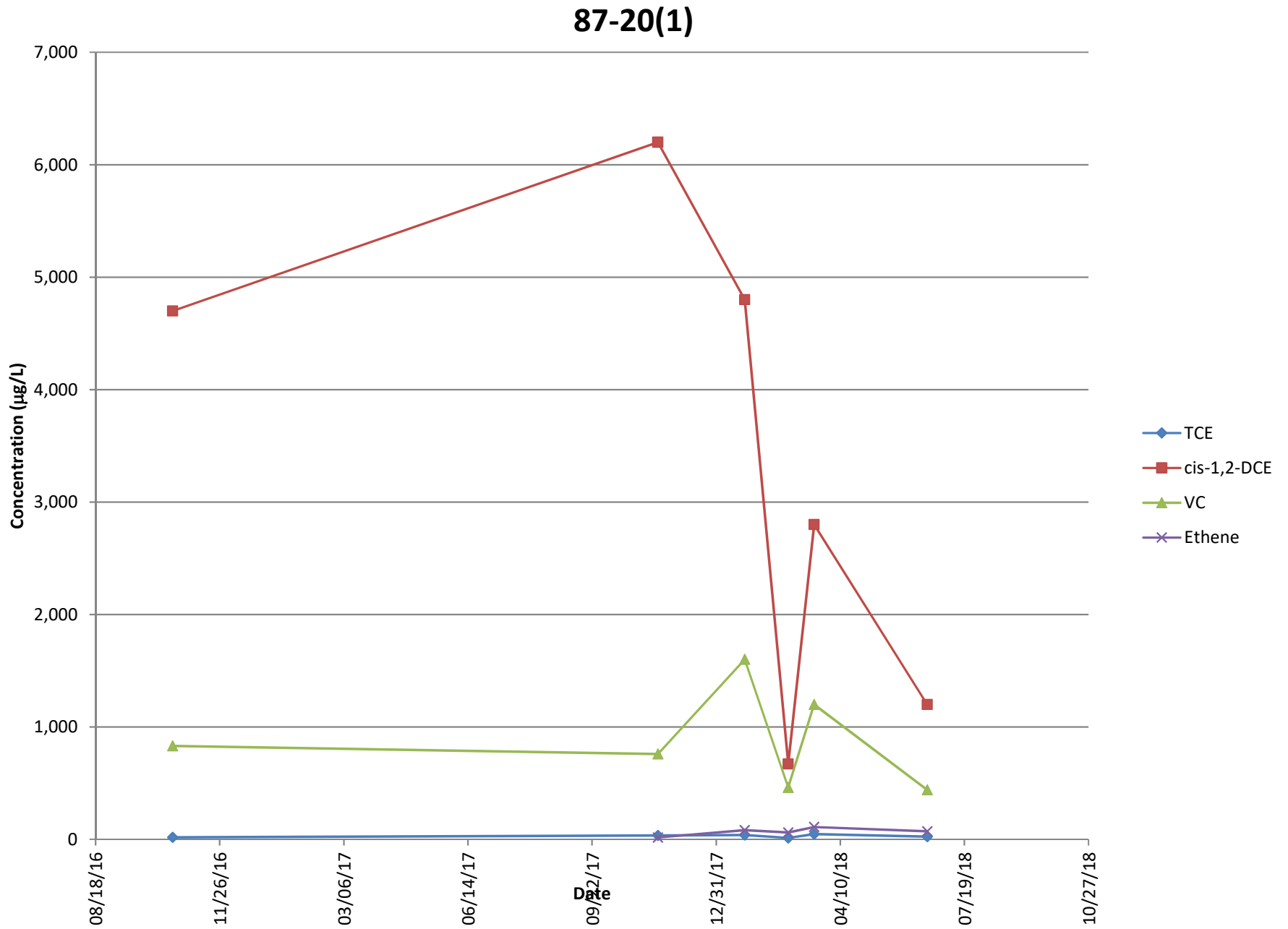
Graph 11
87-13(1) Groundwater Concentration Trend
Former Bell Aerospace Textron Wheatfield, New York



Graph 12
87-17(1) Groundwater Concentration Trend
Former Bell Aerospace Textron Wheatfield, New York

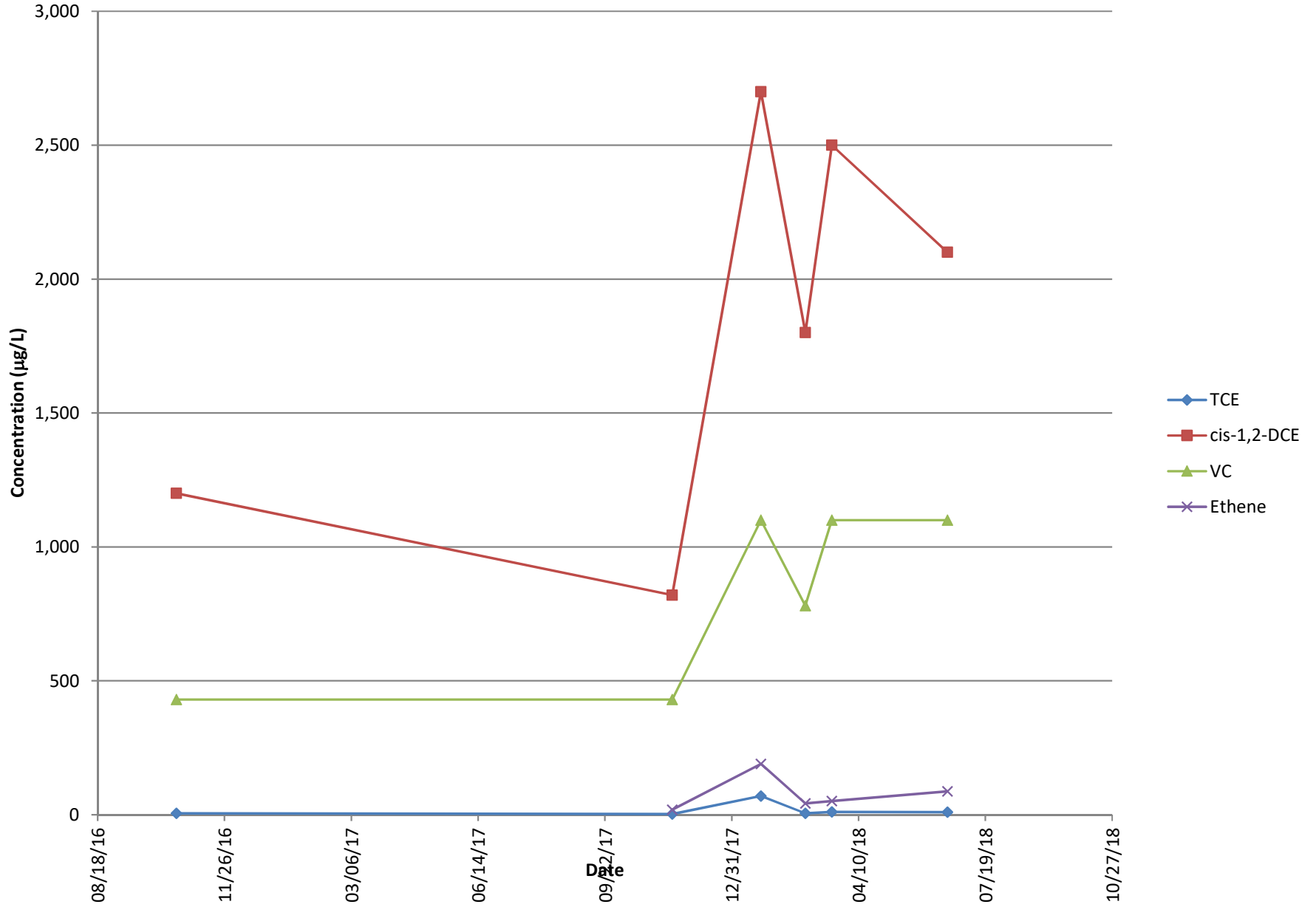


Graph 13
87-20(1) Groundwater Concentration Trend
Former Bell Aerospace Textron Wheatfield, New York



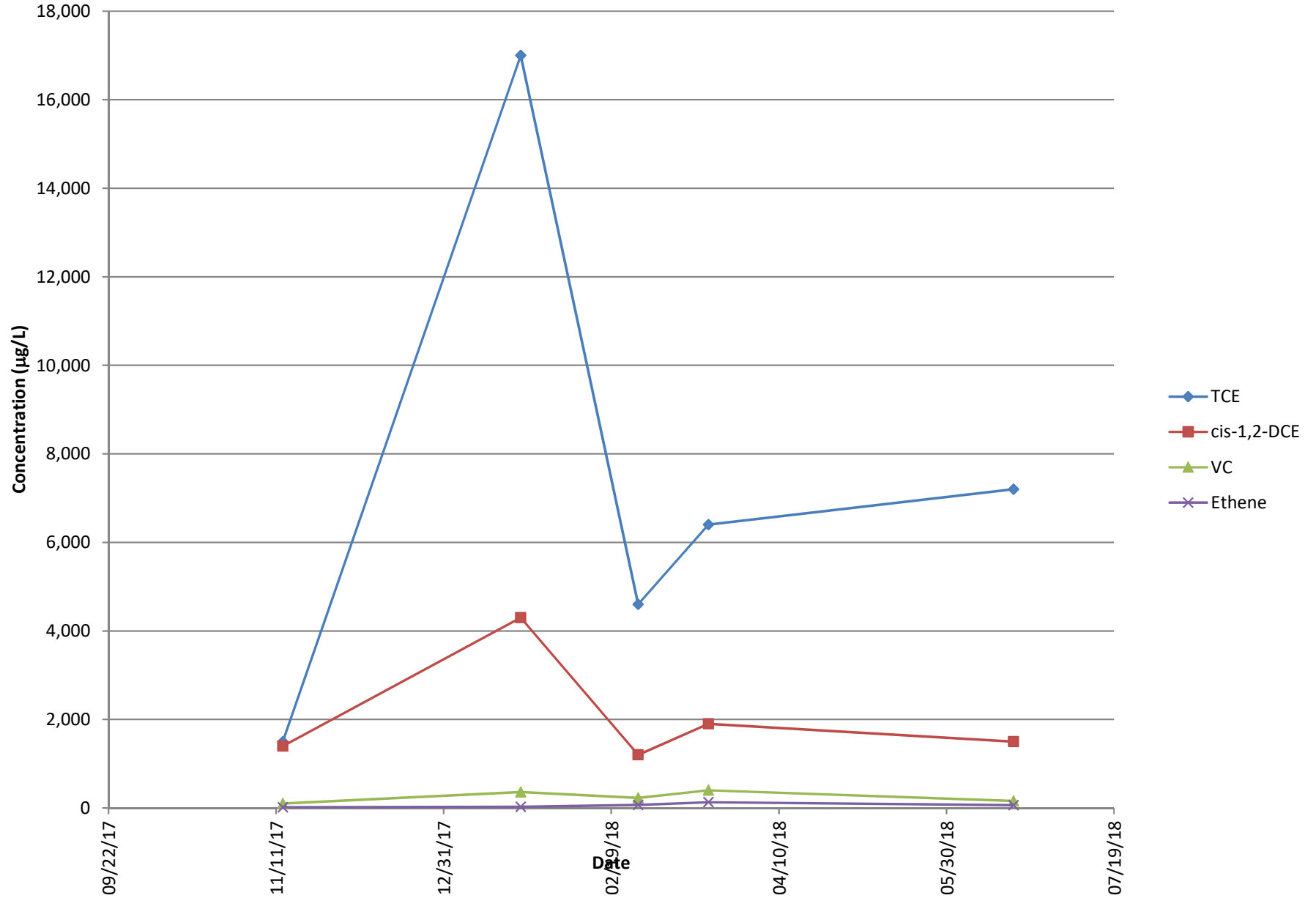
Graph 14
87-22(1) Groundwater Concentration Trend
Former Bell Aerospace Textron Wheatfield, New York

87-22(1)



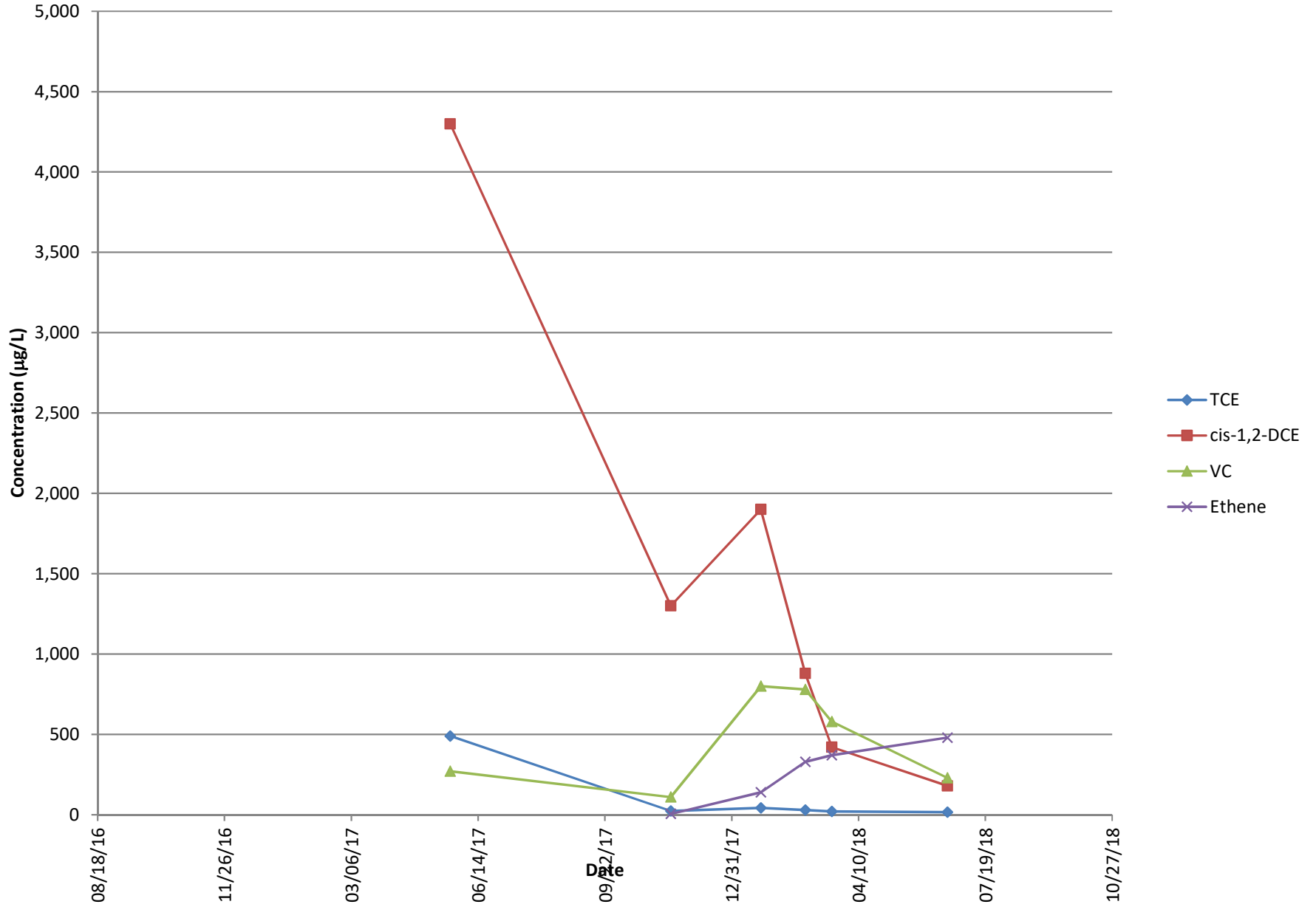
Graph 15
89-10(1) Groundwater Concentration Trend
Former Bell Aerospace Textron Wheatfield, New York

89-10(1)



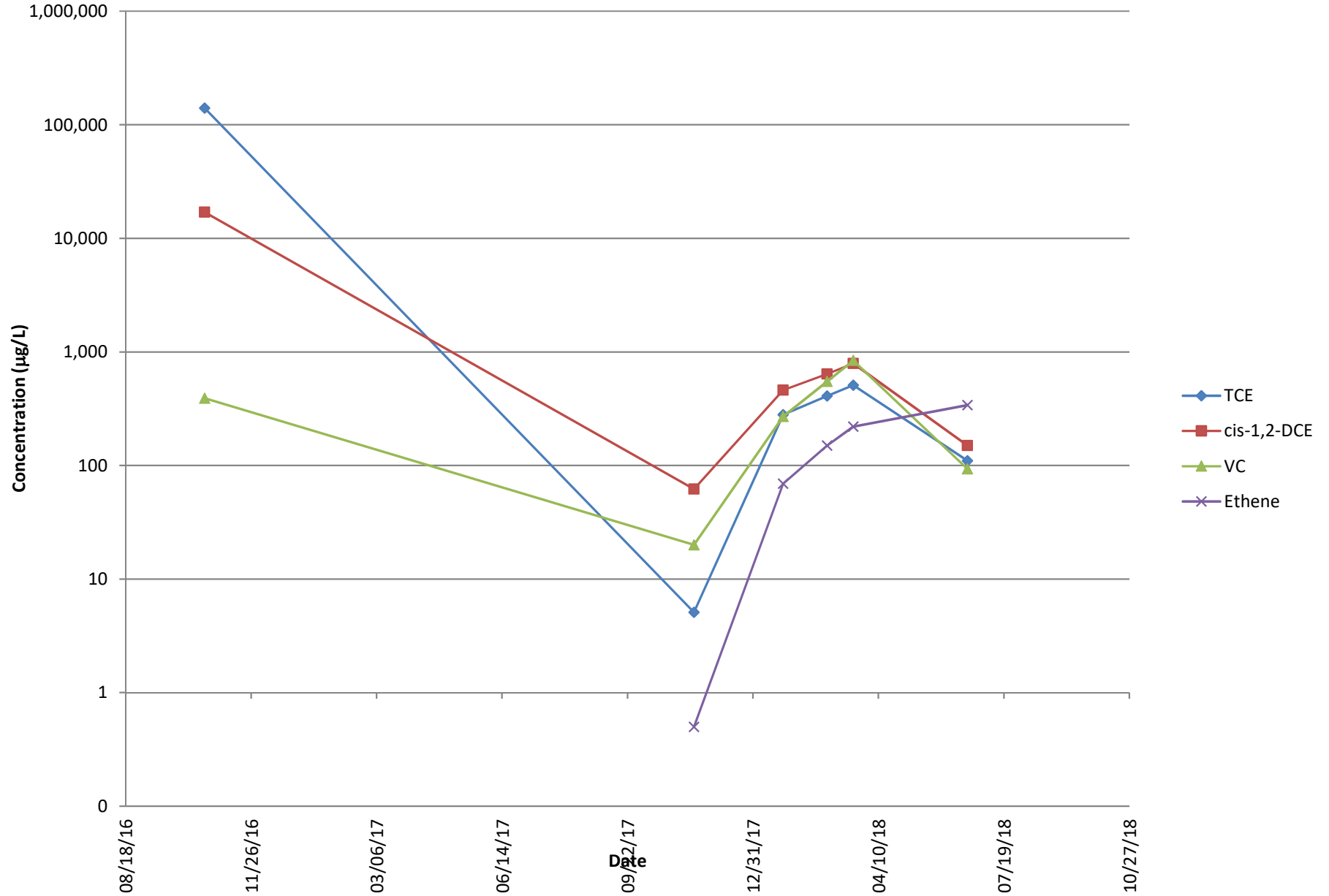
Graph 16
89-12(1) Groundwater Concentration Trend
Former Bell Aerospace Textron Wheatfield, New York

89-12(1)

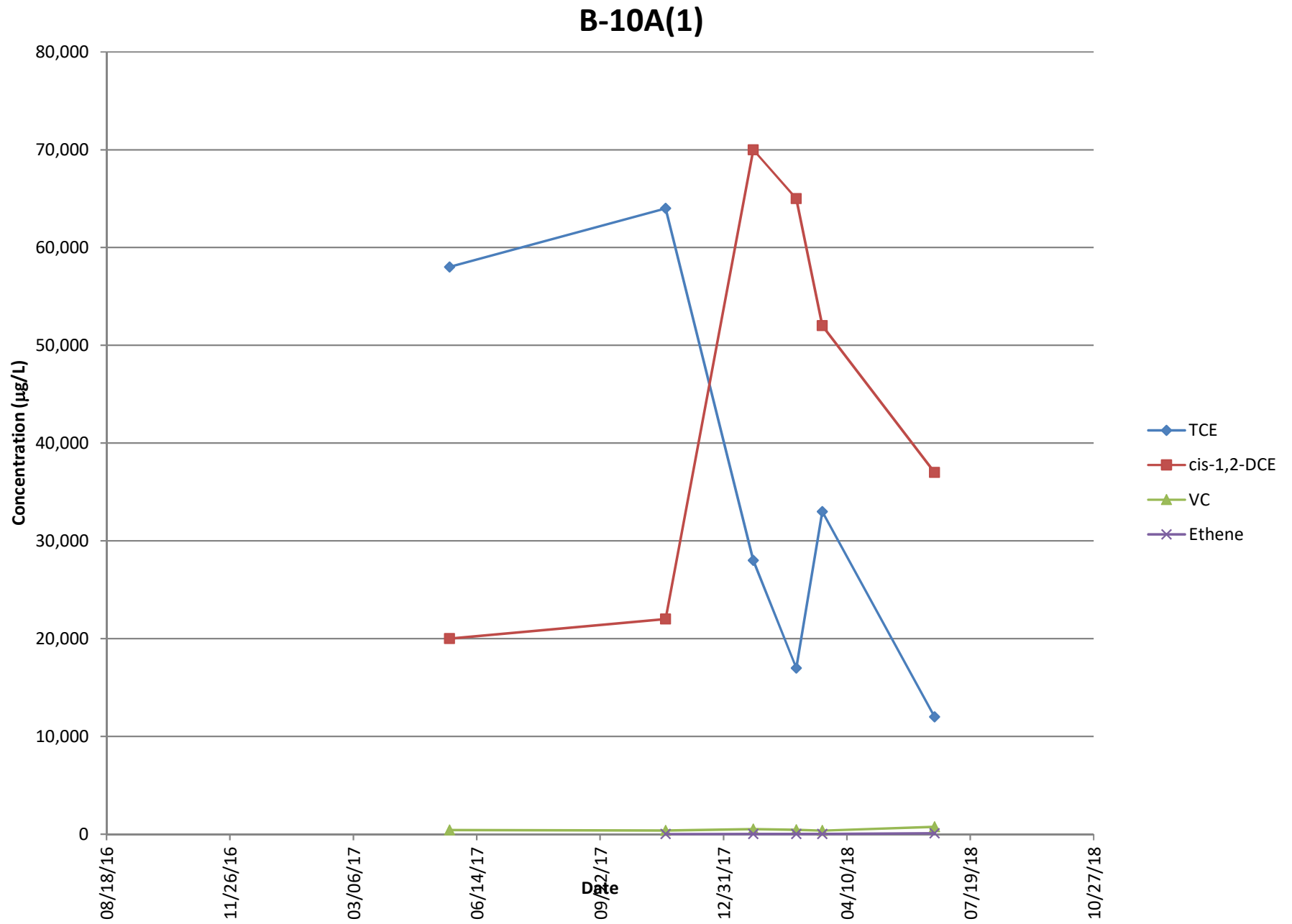


Graph 17
89-15(1) Groundwater Concentration Trend
Former Bell Aerospace Textron Wheatfield, New York

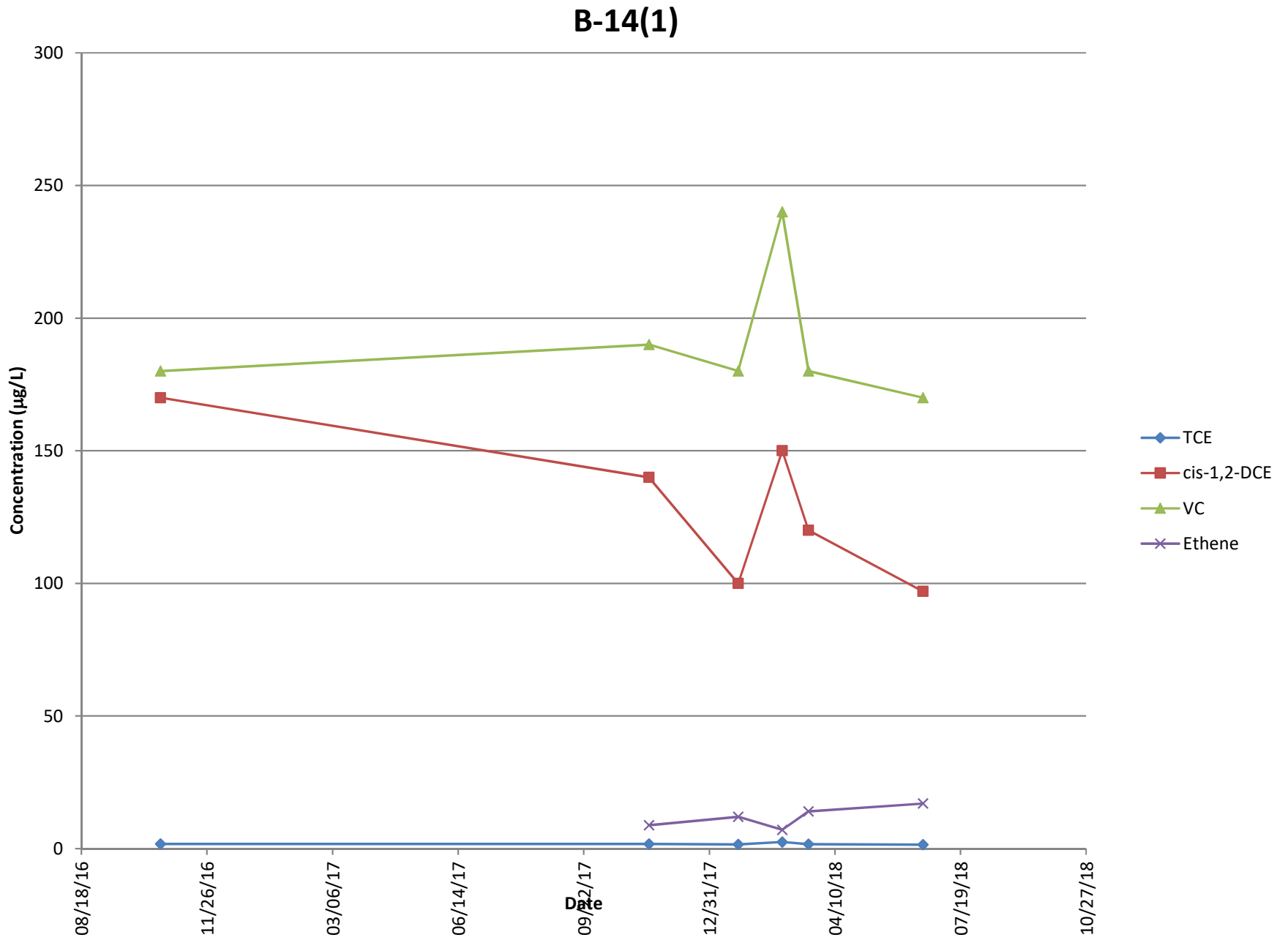
89-15(1) - Logarithmic scale



Graph 18
B-10A(1) Groundwater Concentration Trend
Former Bell Aerospace Textron Wheatfield, New York

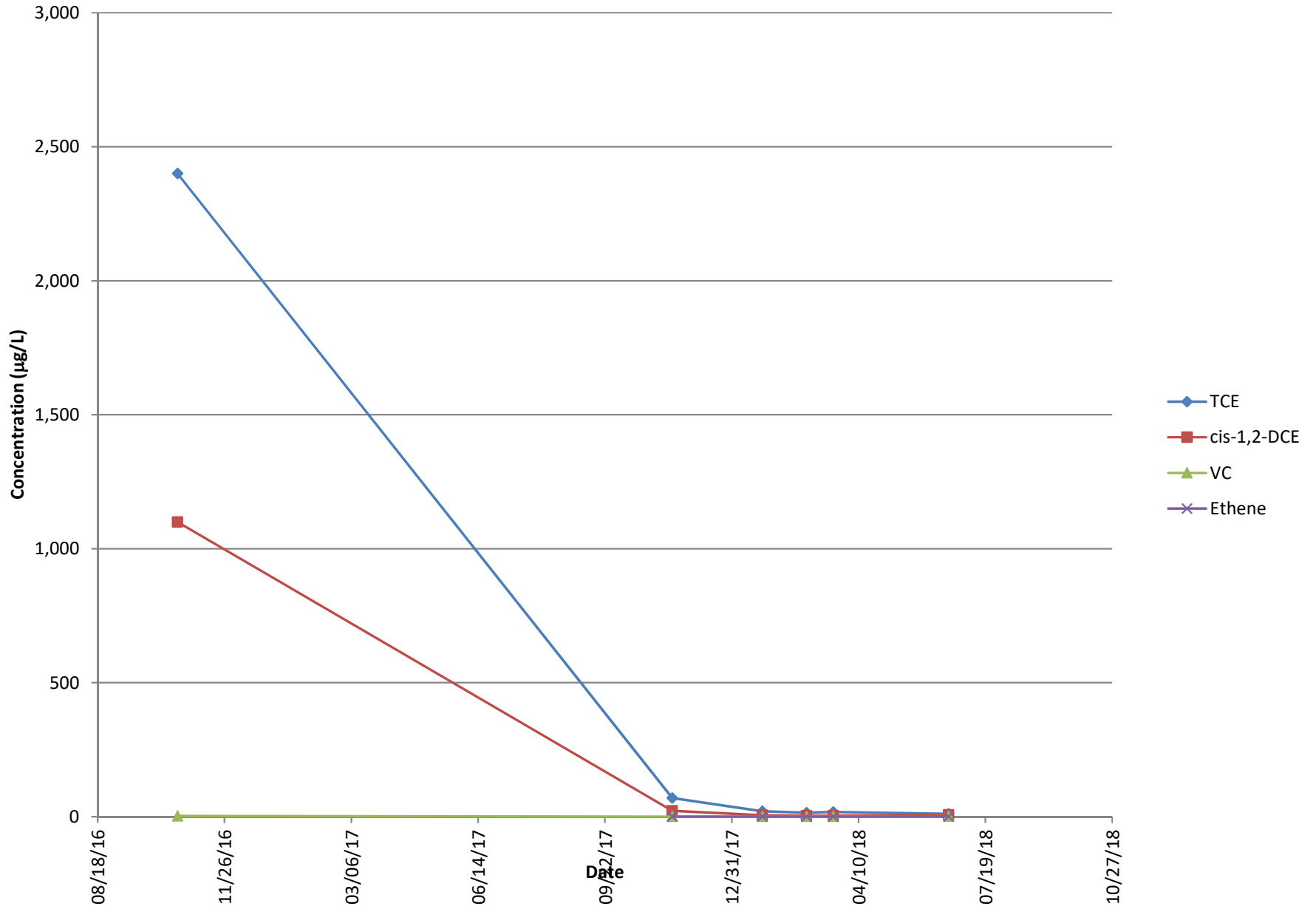


Graph 19
B-14(1) Groundwater Concentration Trend
Former Bell Aerospace Textron Wheatfield, New York



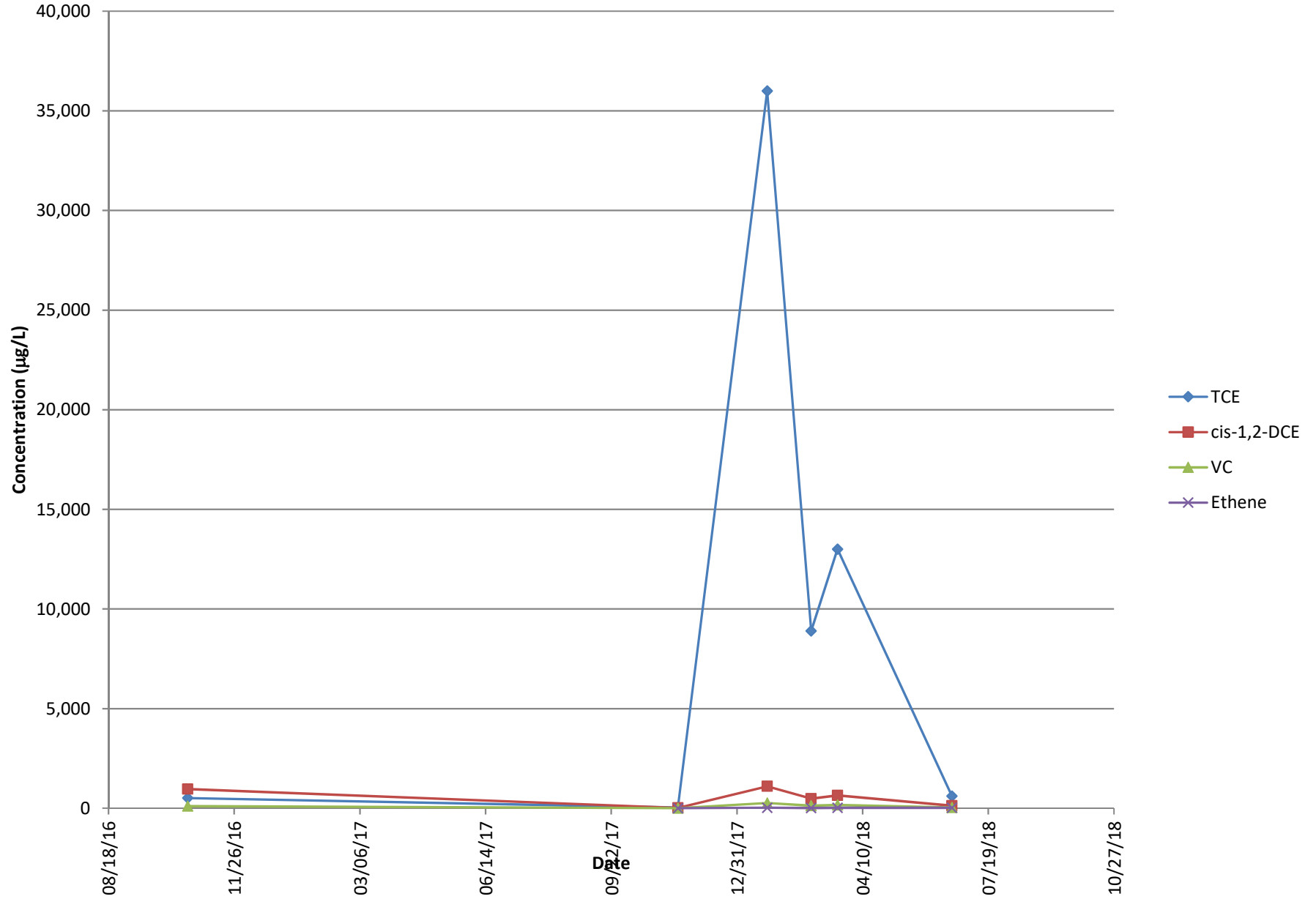
Graph 20
DW-9 Groundwater Concentration Trend
Former Bell Aerospace Textron Wheatfield, New York

DW-9



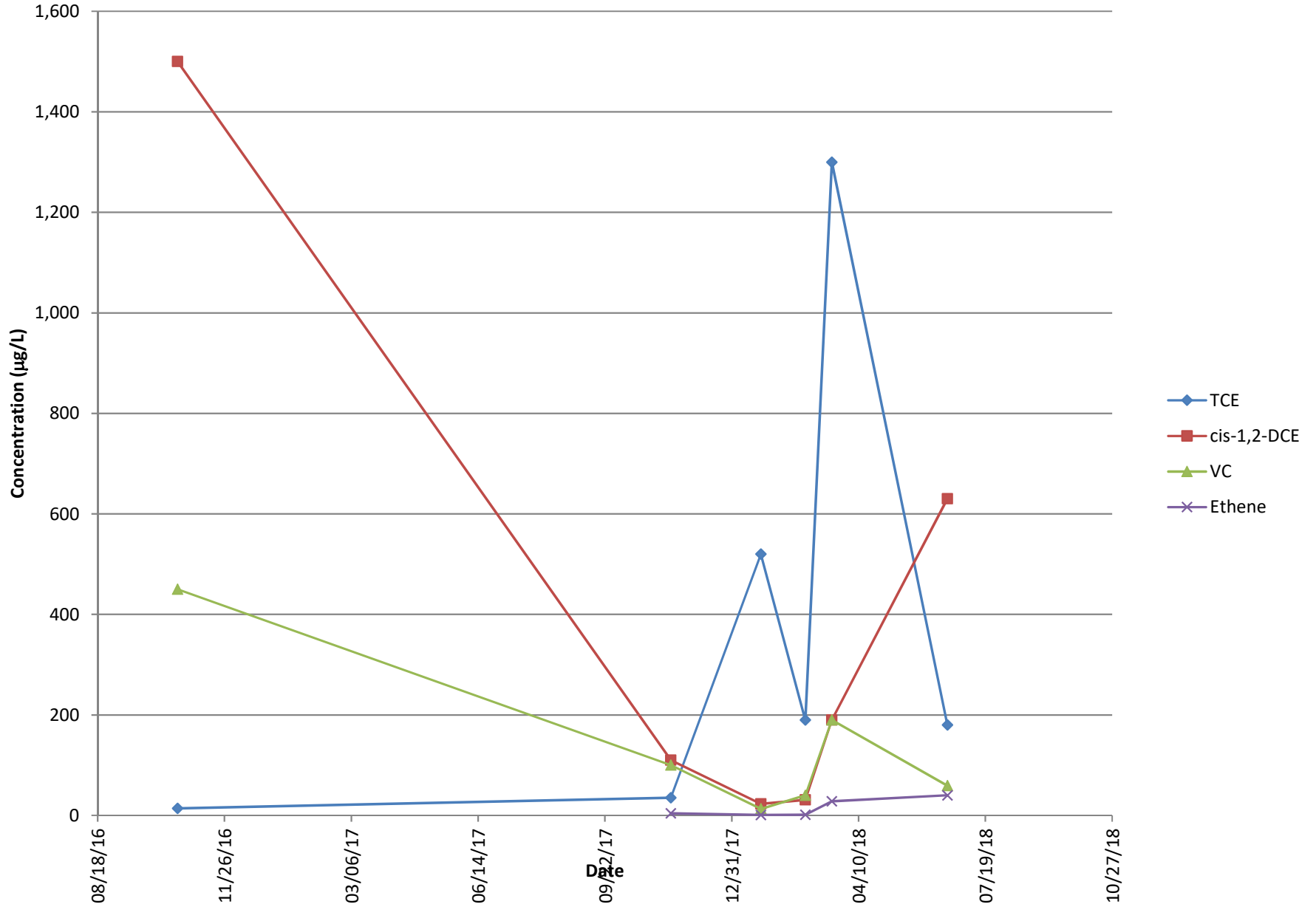
Graph 21
DW-10 Groundwater Concentration Trend
Former Bell Aerospace Textron Wheatfield, New York

DW-10



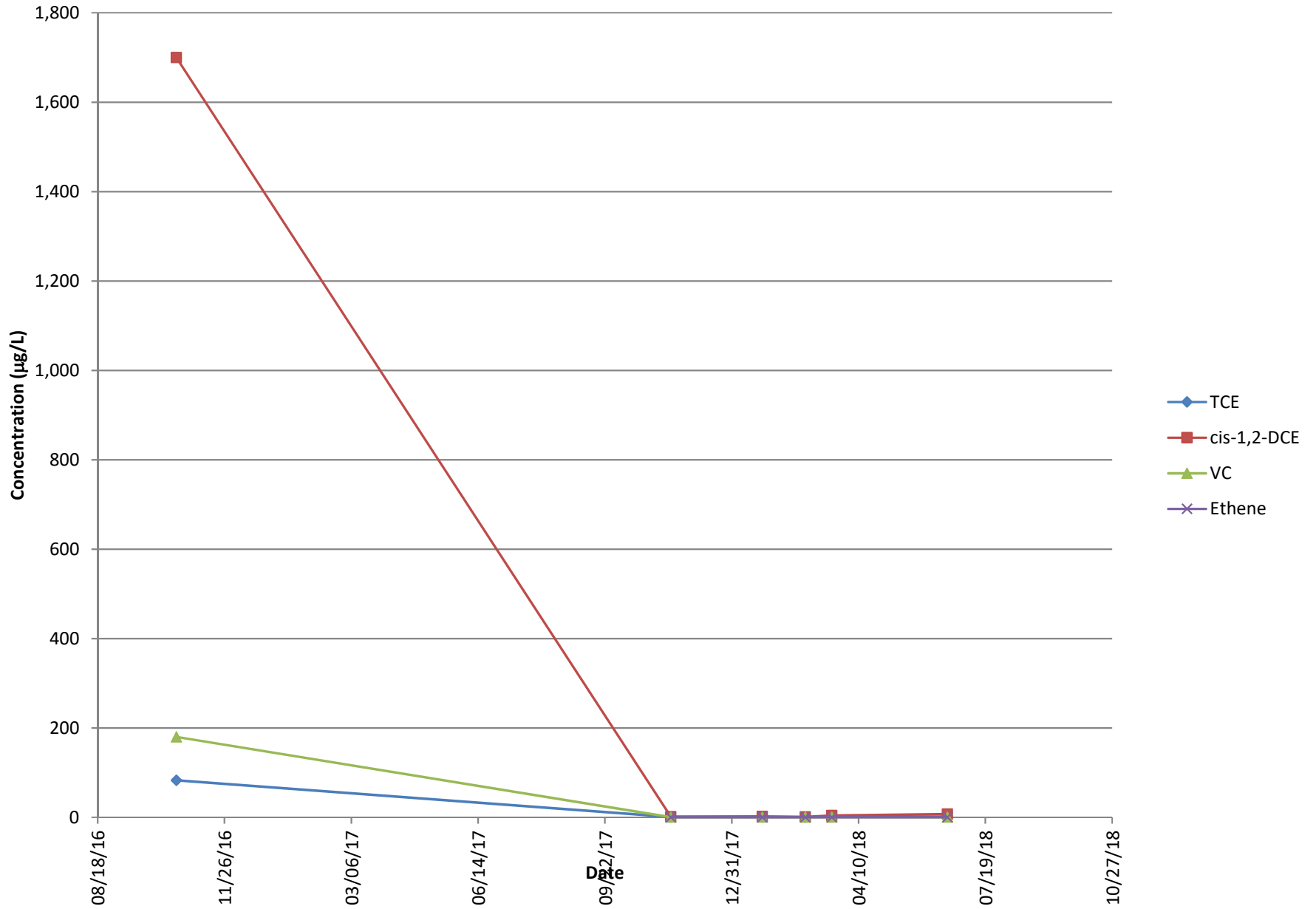
Graph 22
DW-11 Groundwater Concentration Trend
Former Bell Aerospace Textron Wheatfield, New York

DW-11



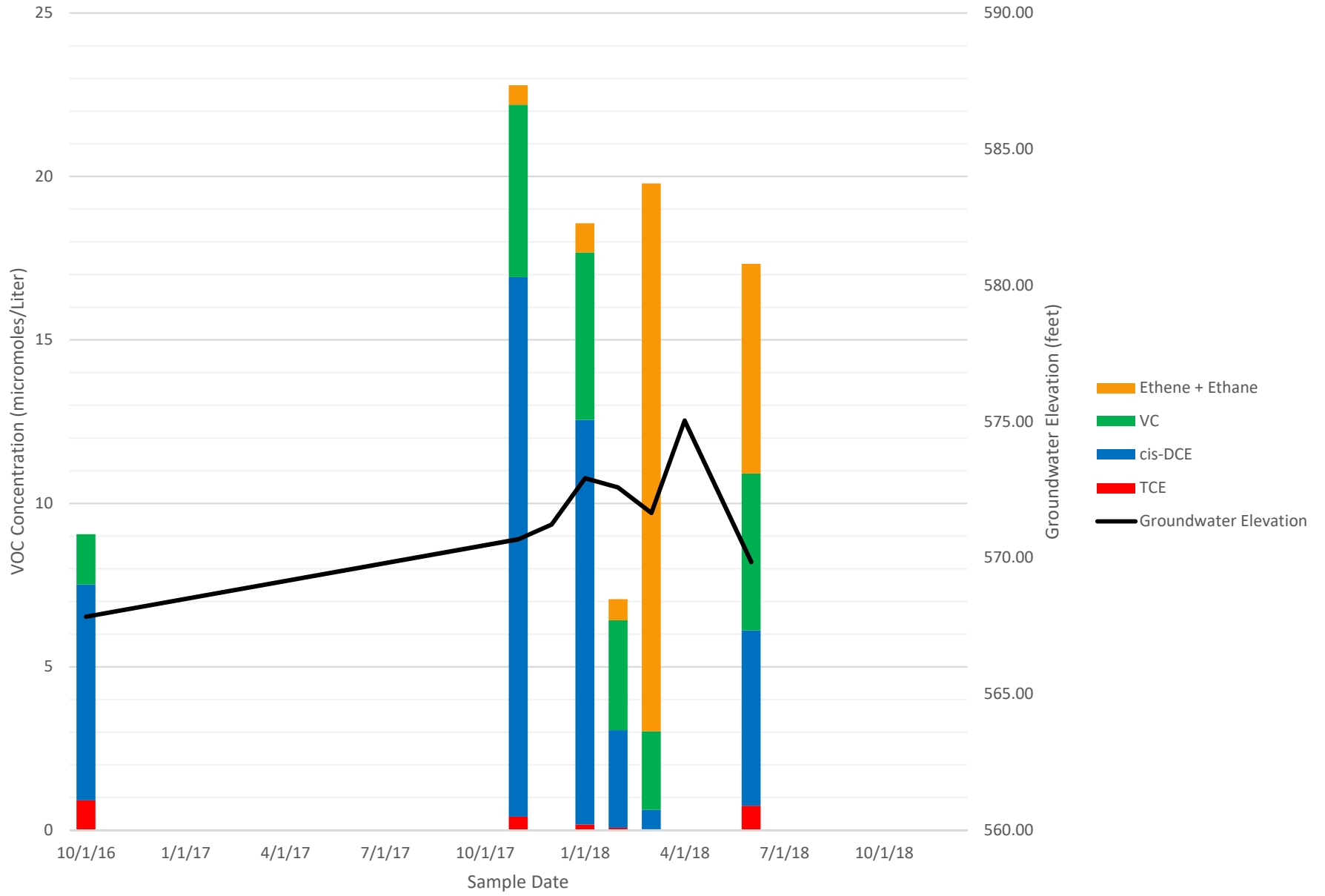
Graph 23
DW-12 Groundwater Concentration Trend
Former Bell Aerospace Textron Wheatfield, New York

DW-12

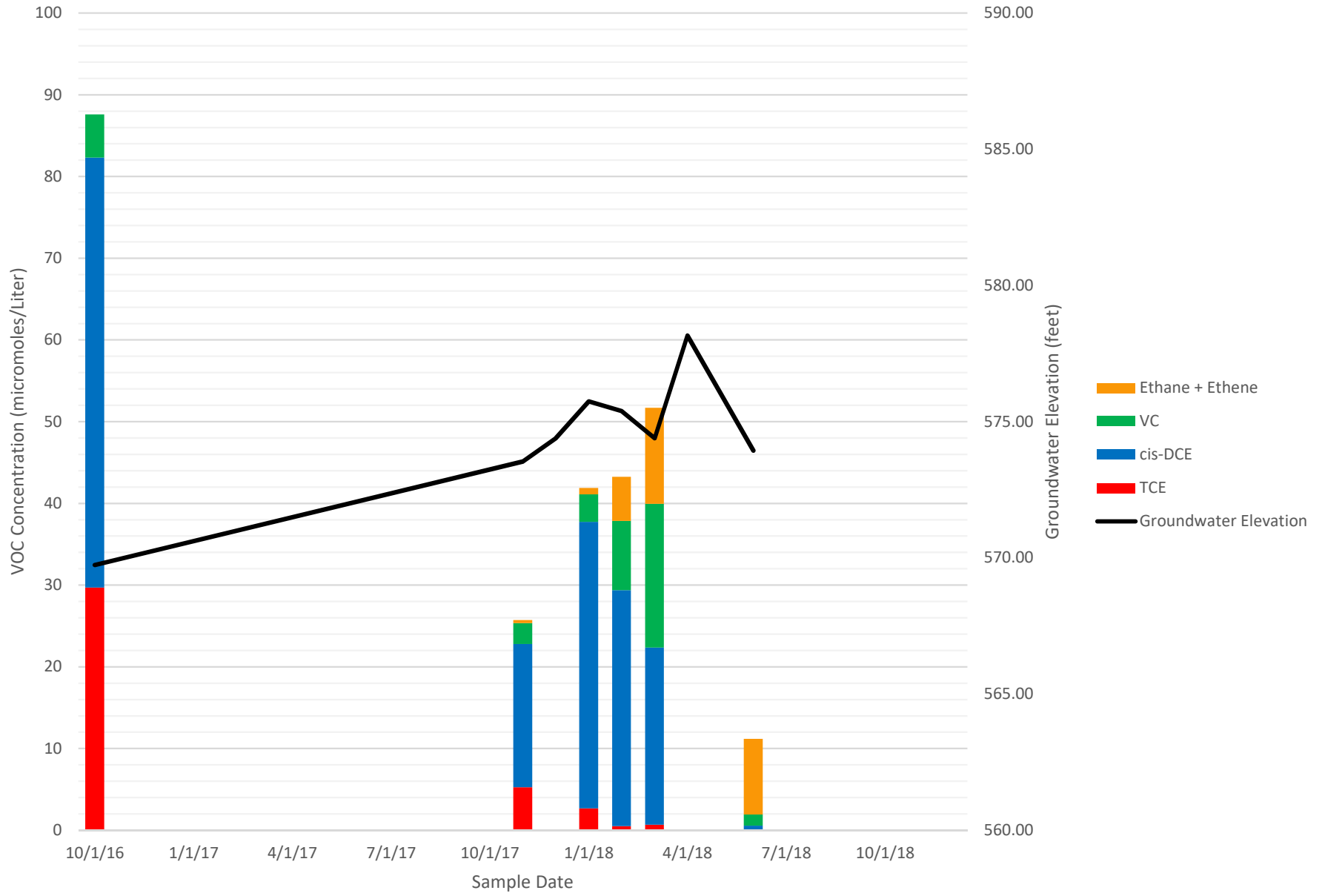


Appendix D
Molar Graphs

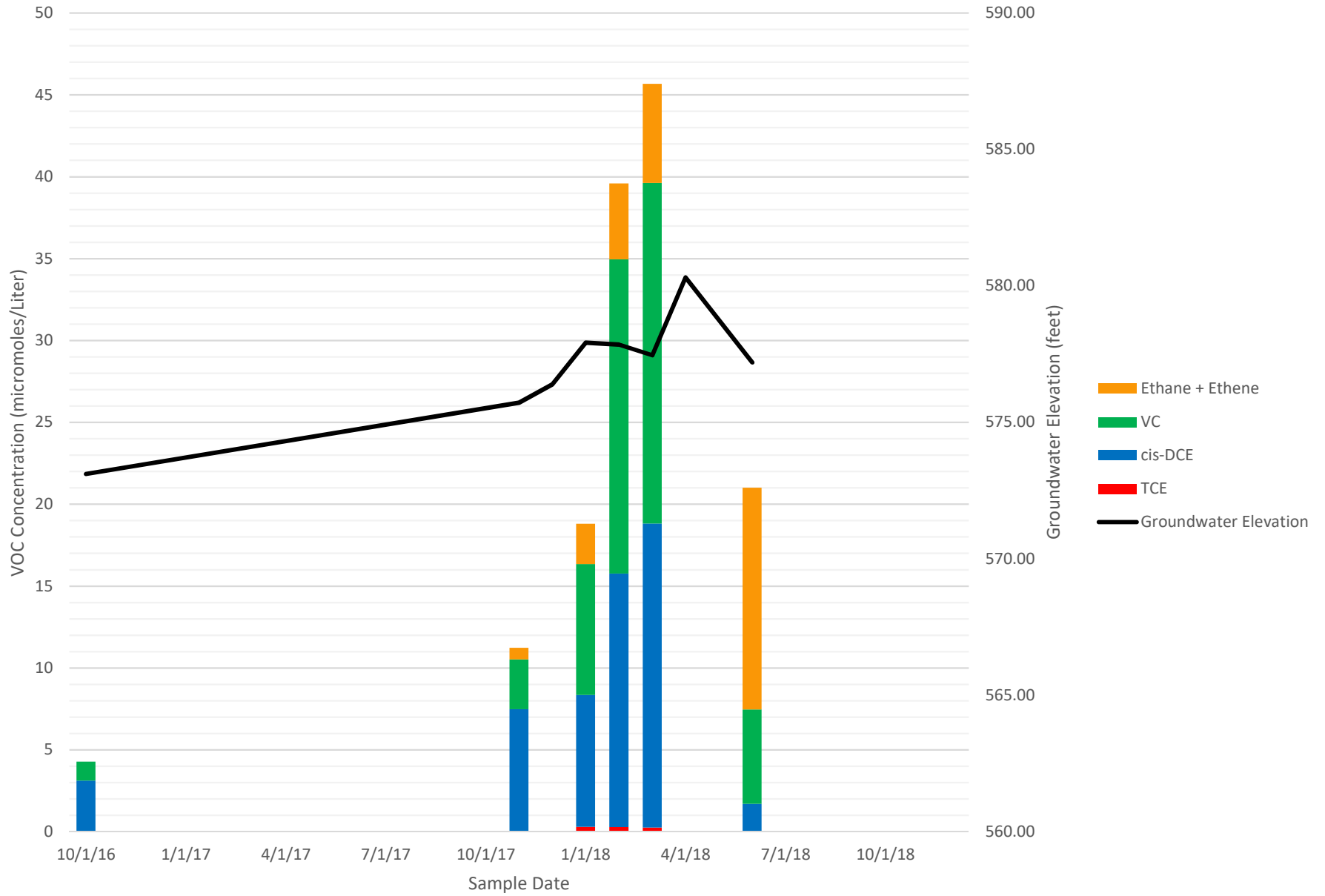
87-01(1)



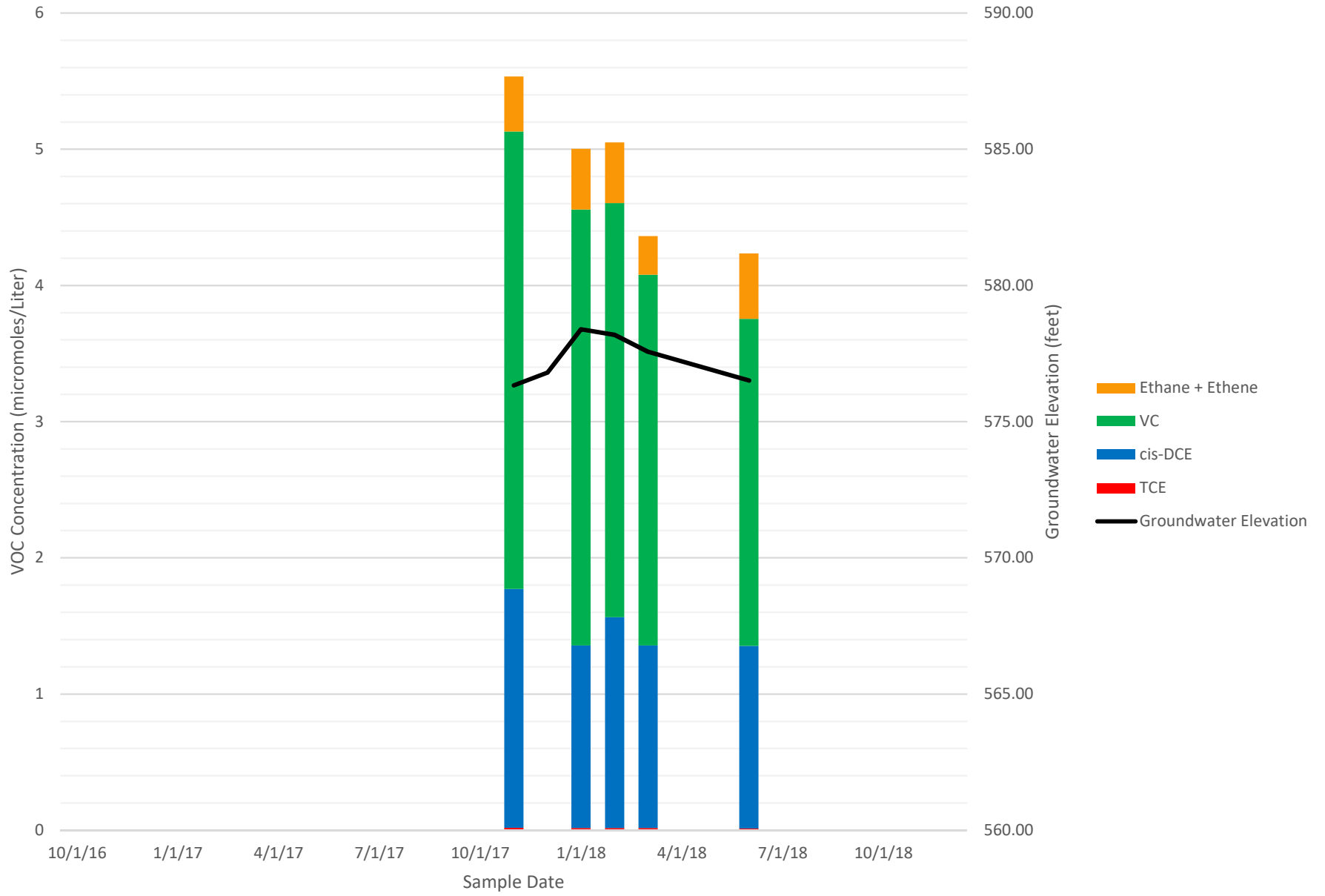
87-02(1)



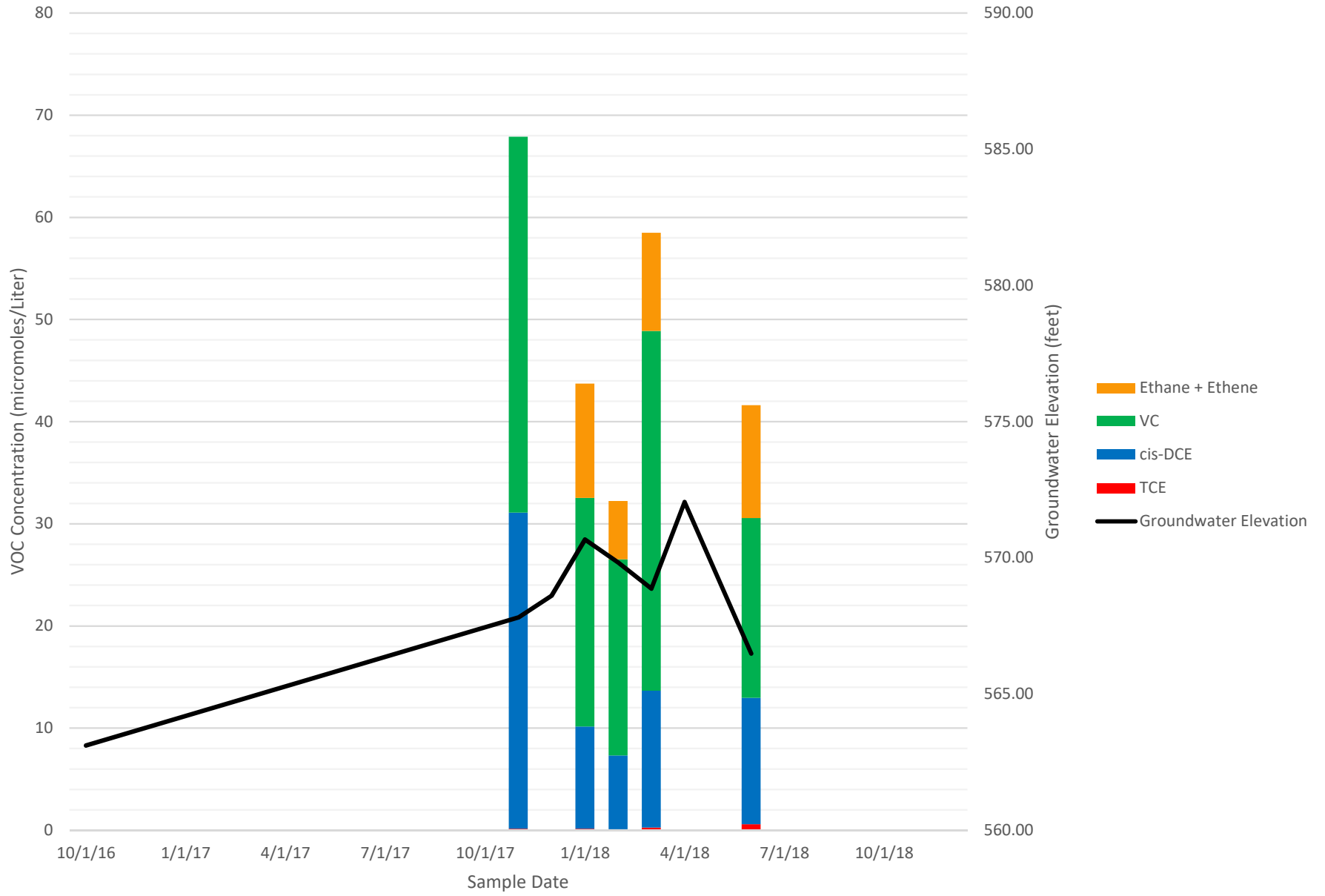
87-08(1)



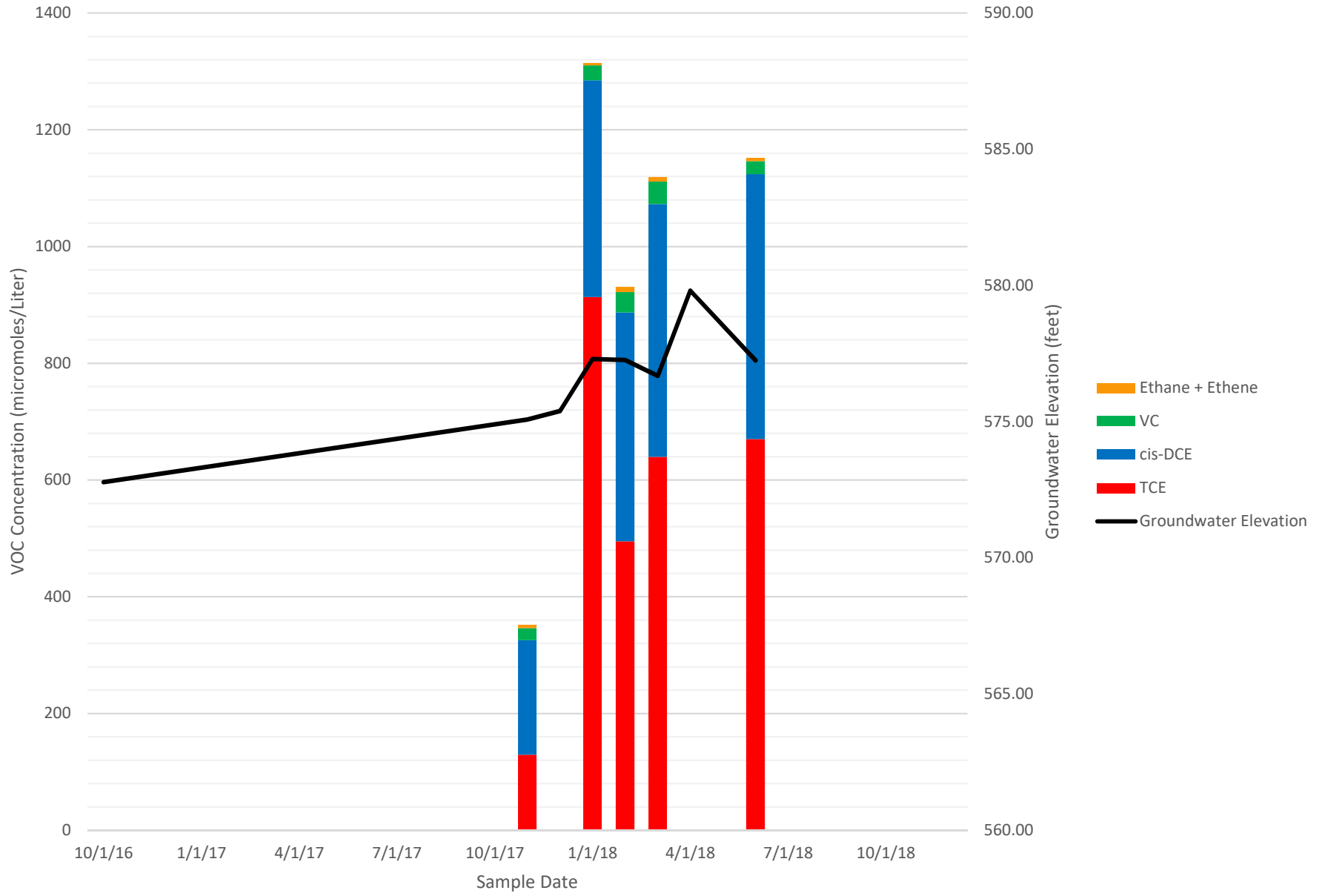
87-09(1)



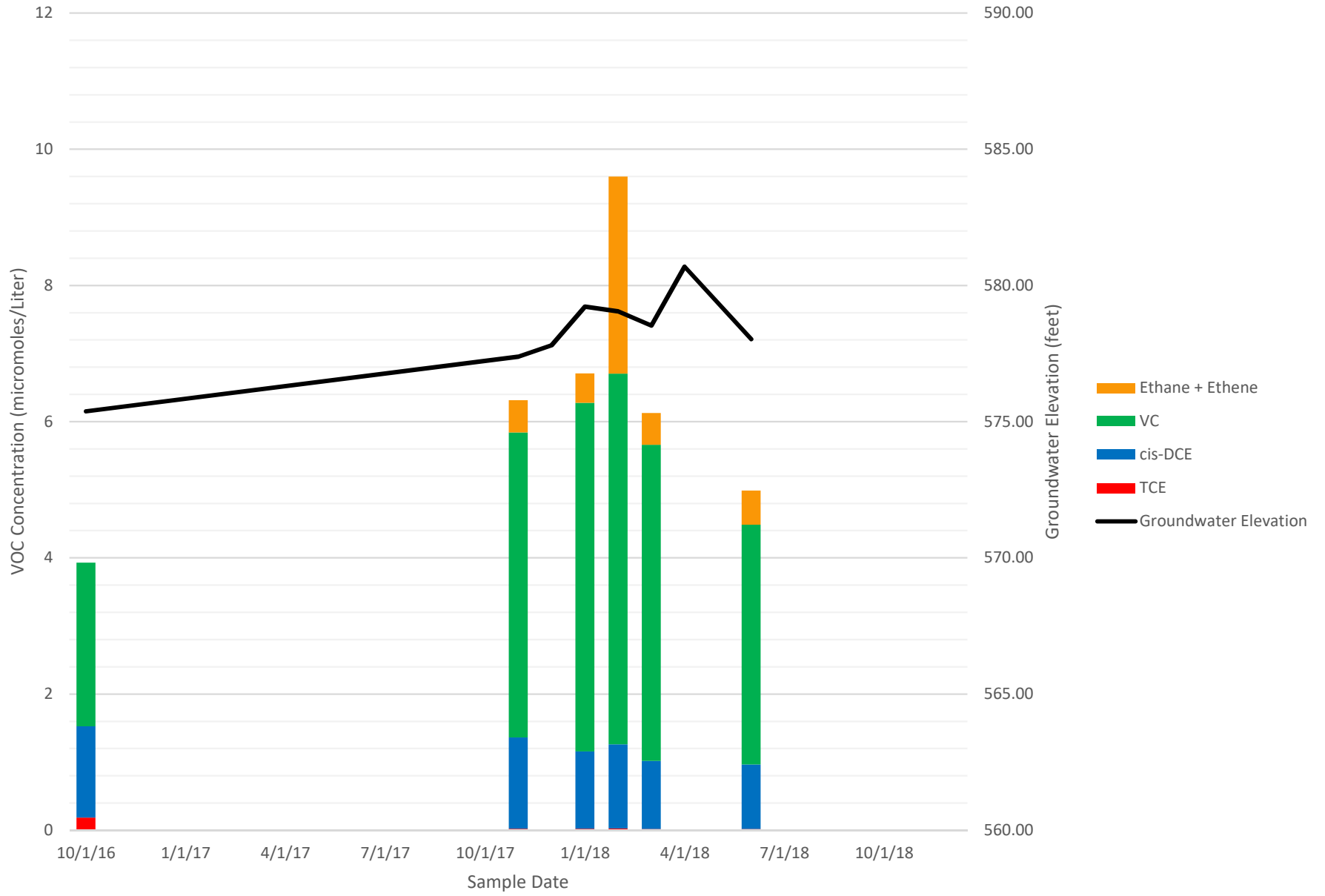
87-12(1)



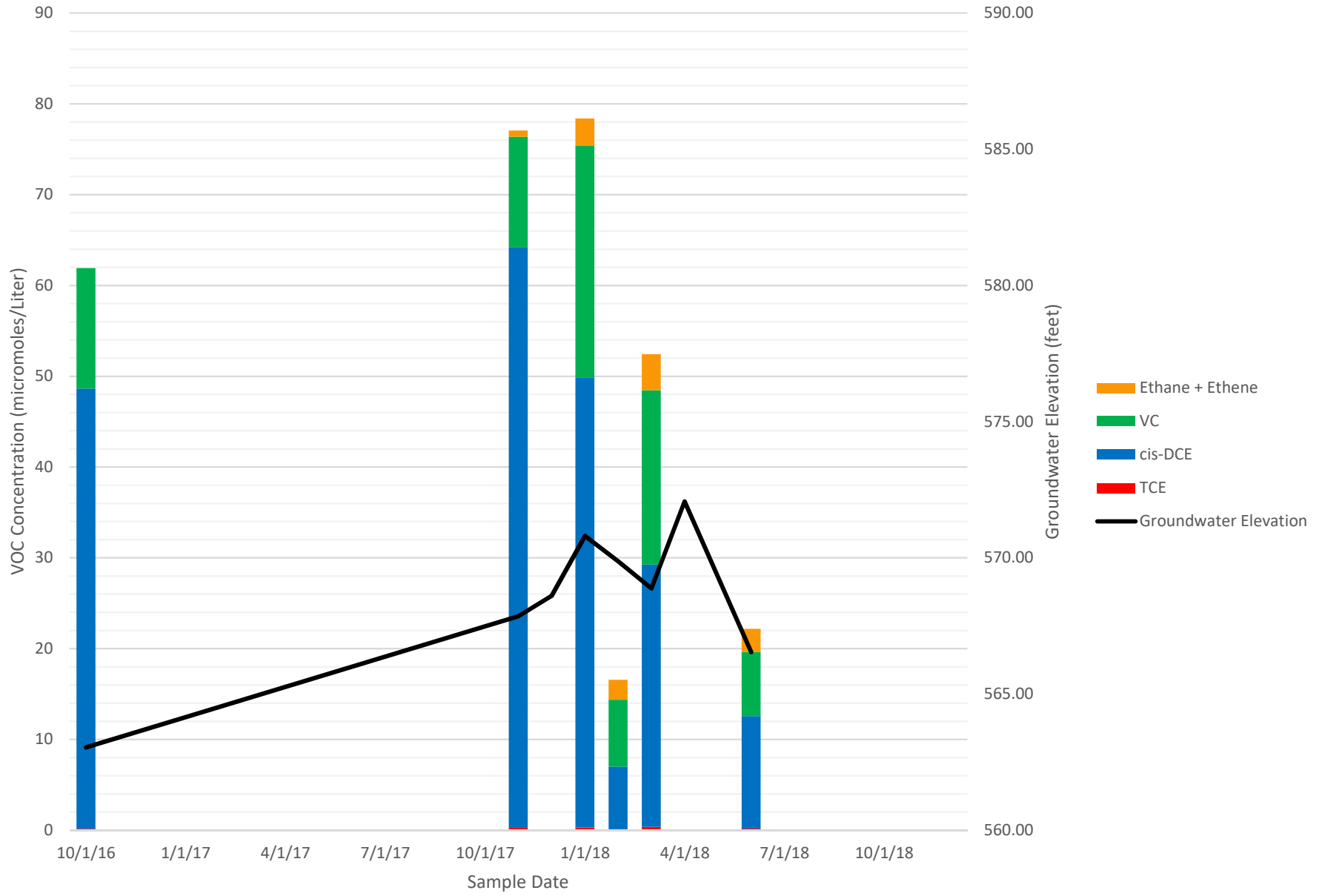
87-13(1)



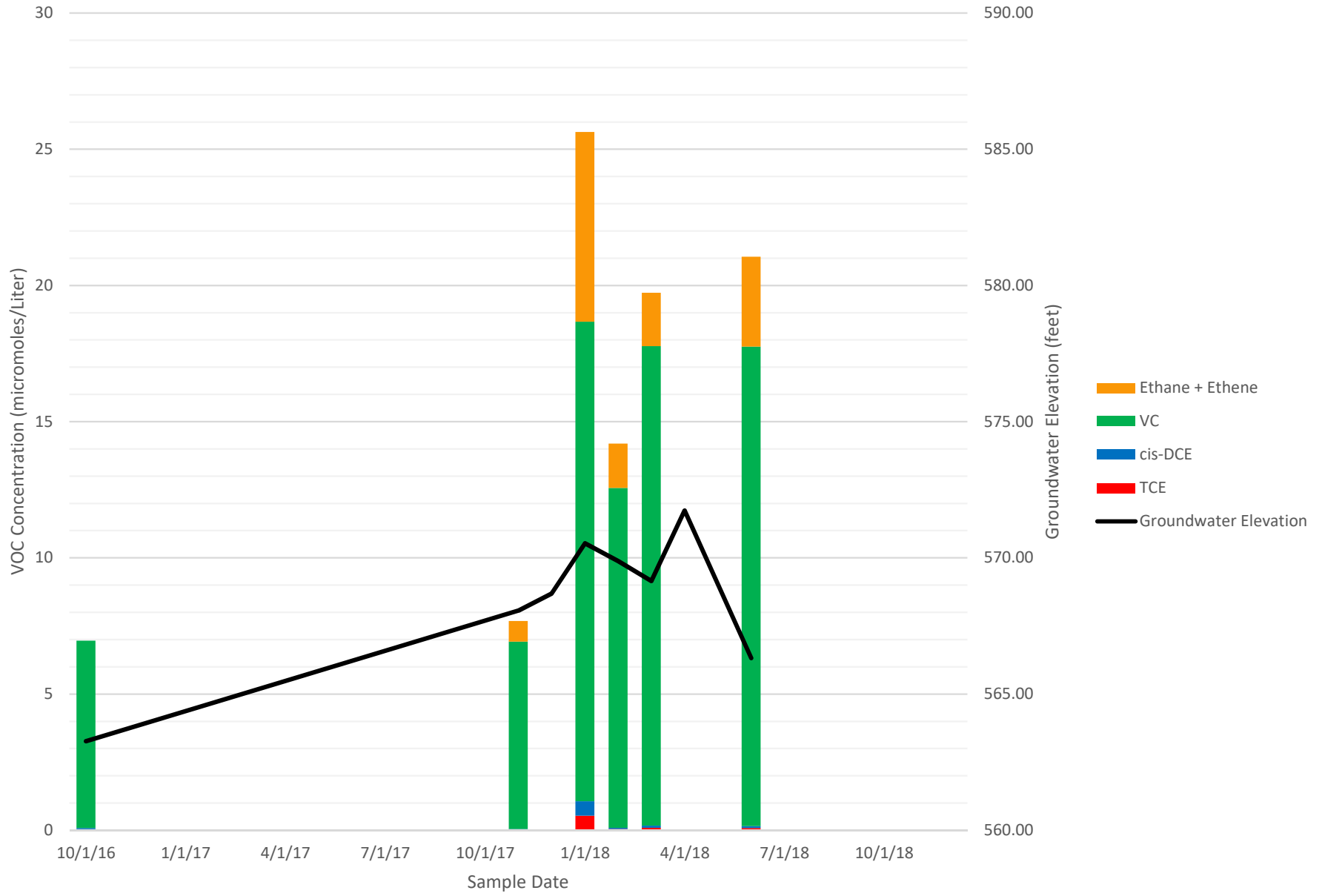
87-17(1)



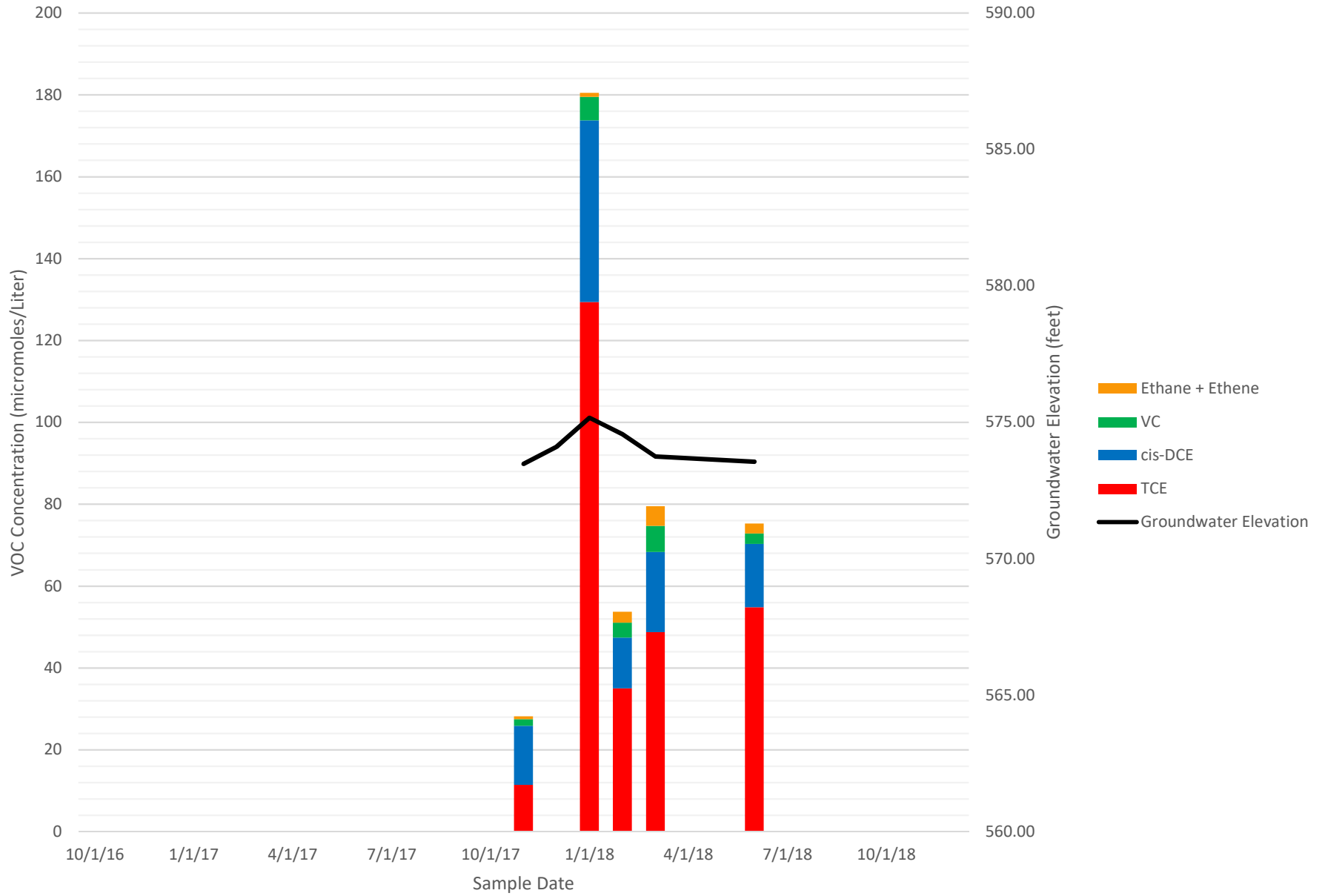
87-20(1)



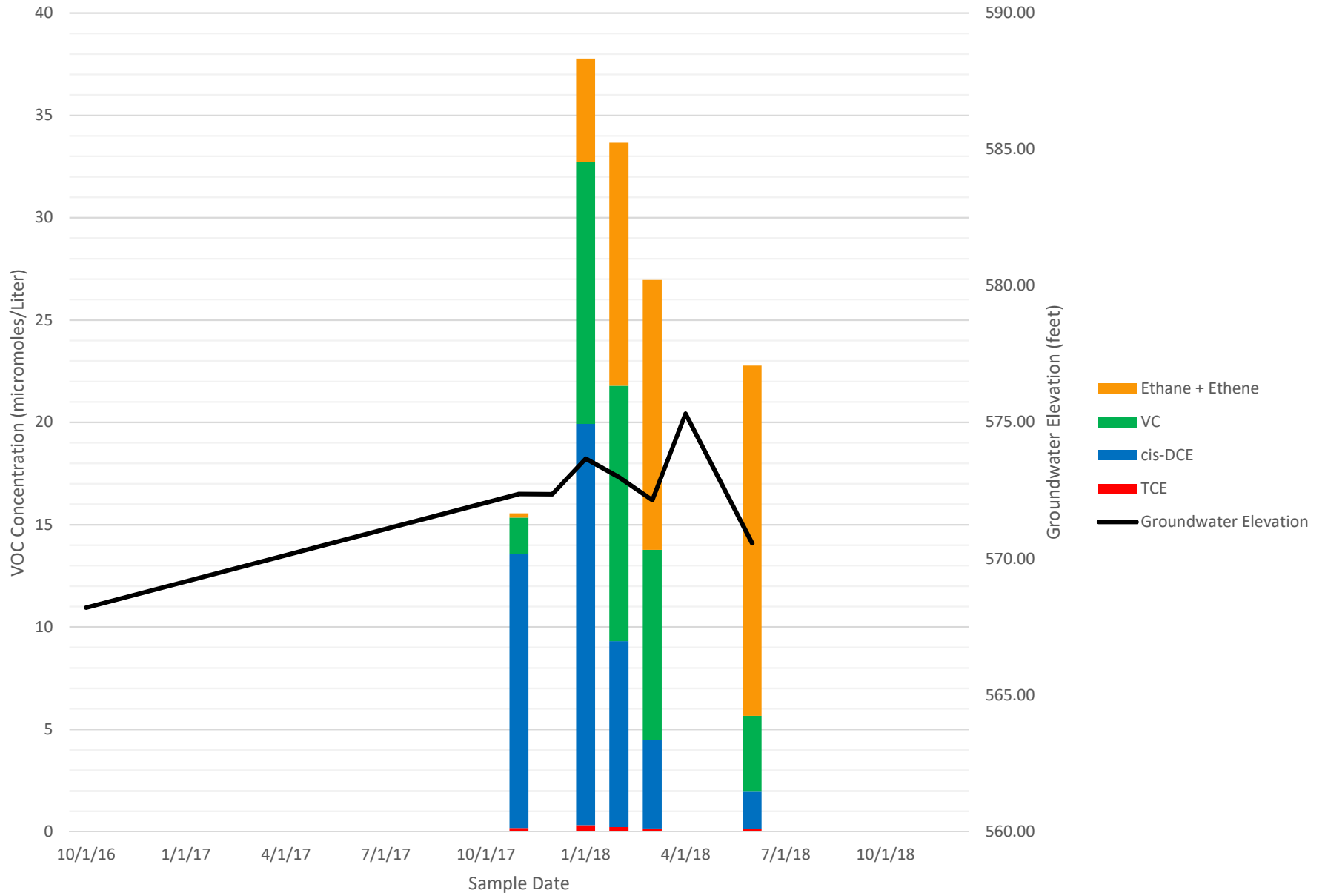
87-22(1)



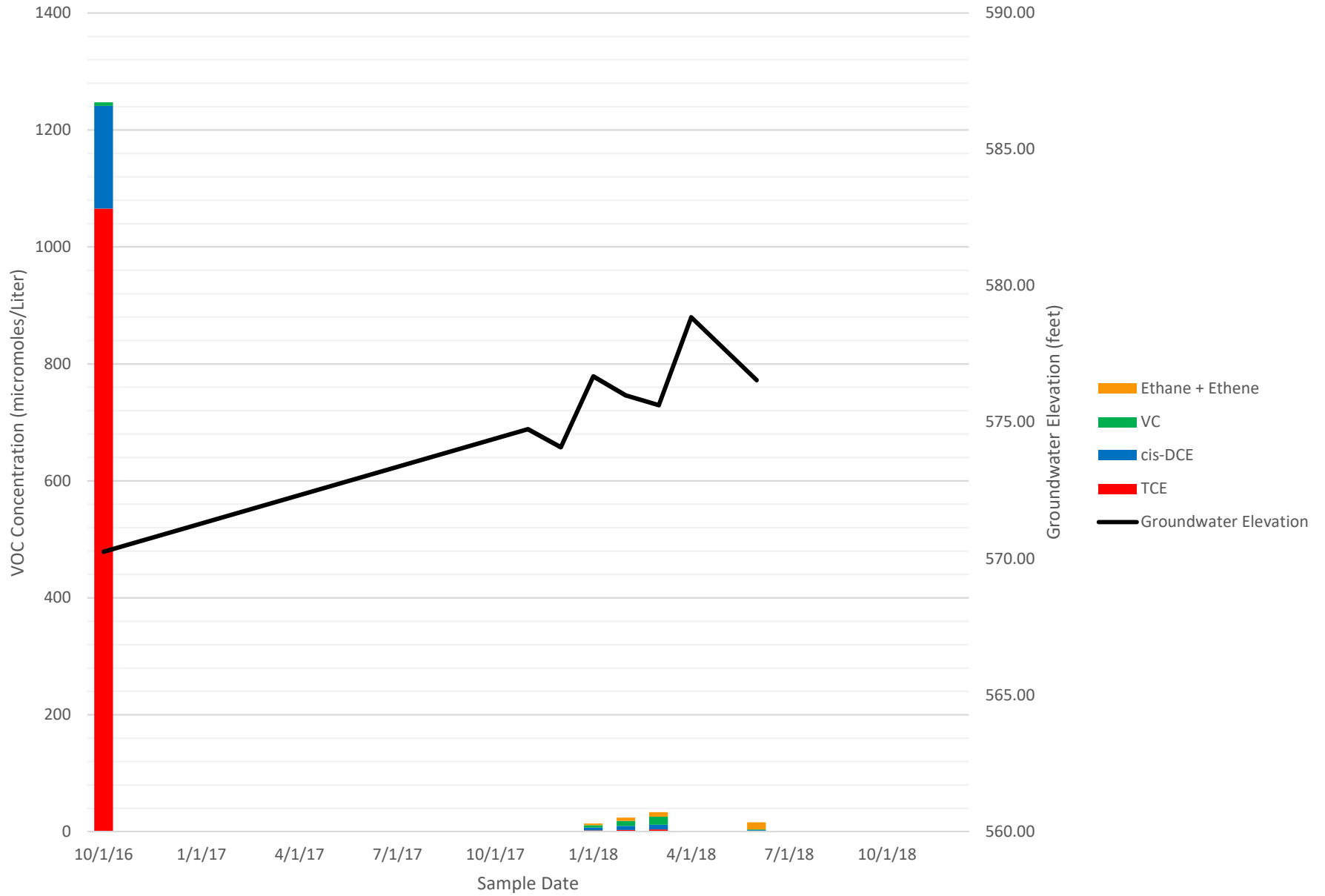
89-10(1)



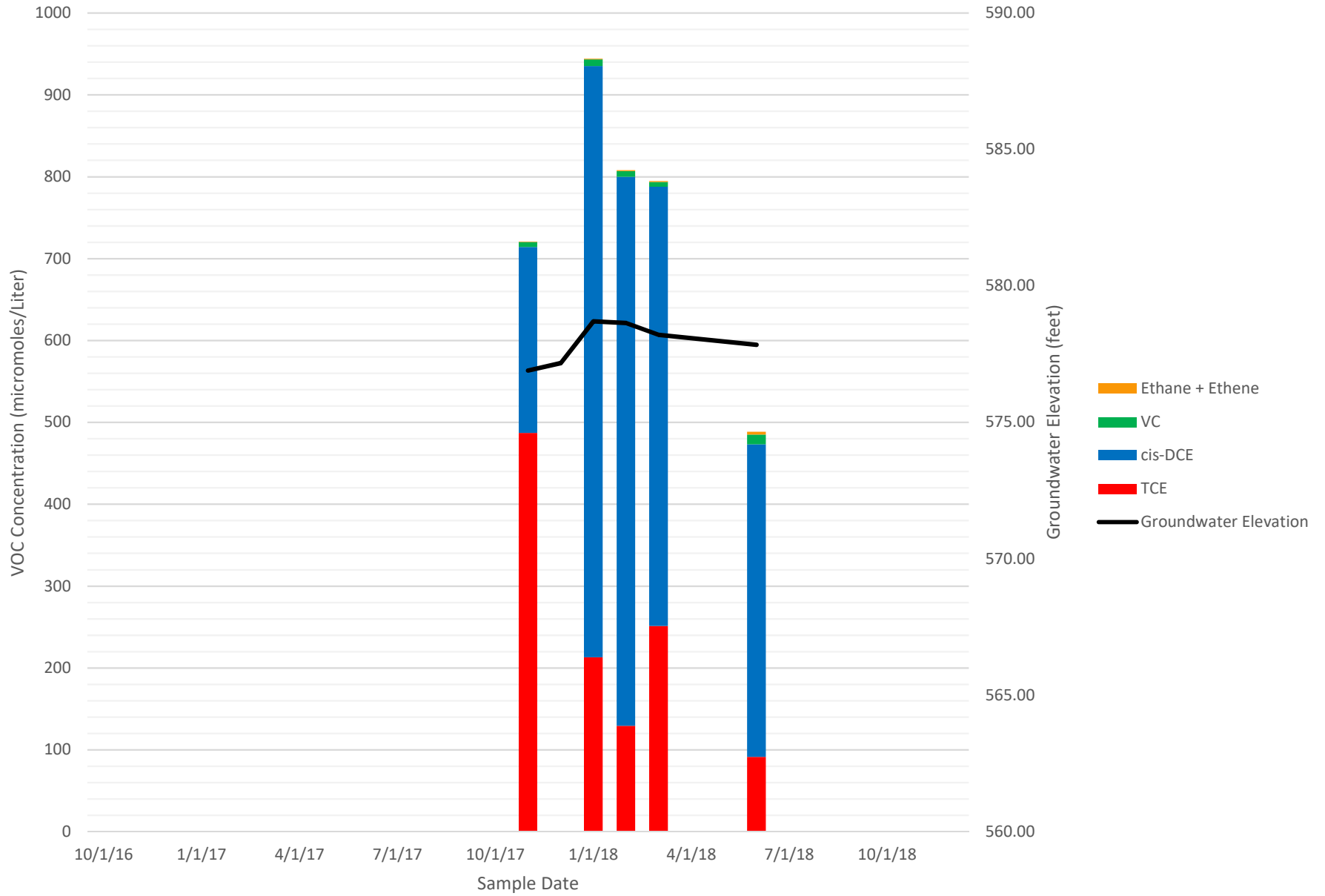
89-12(1)



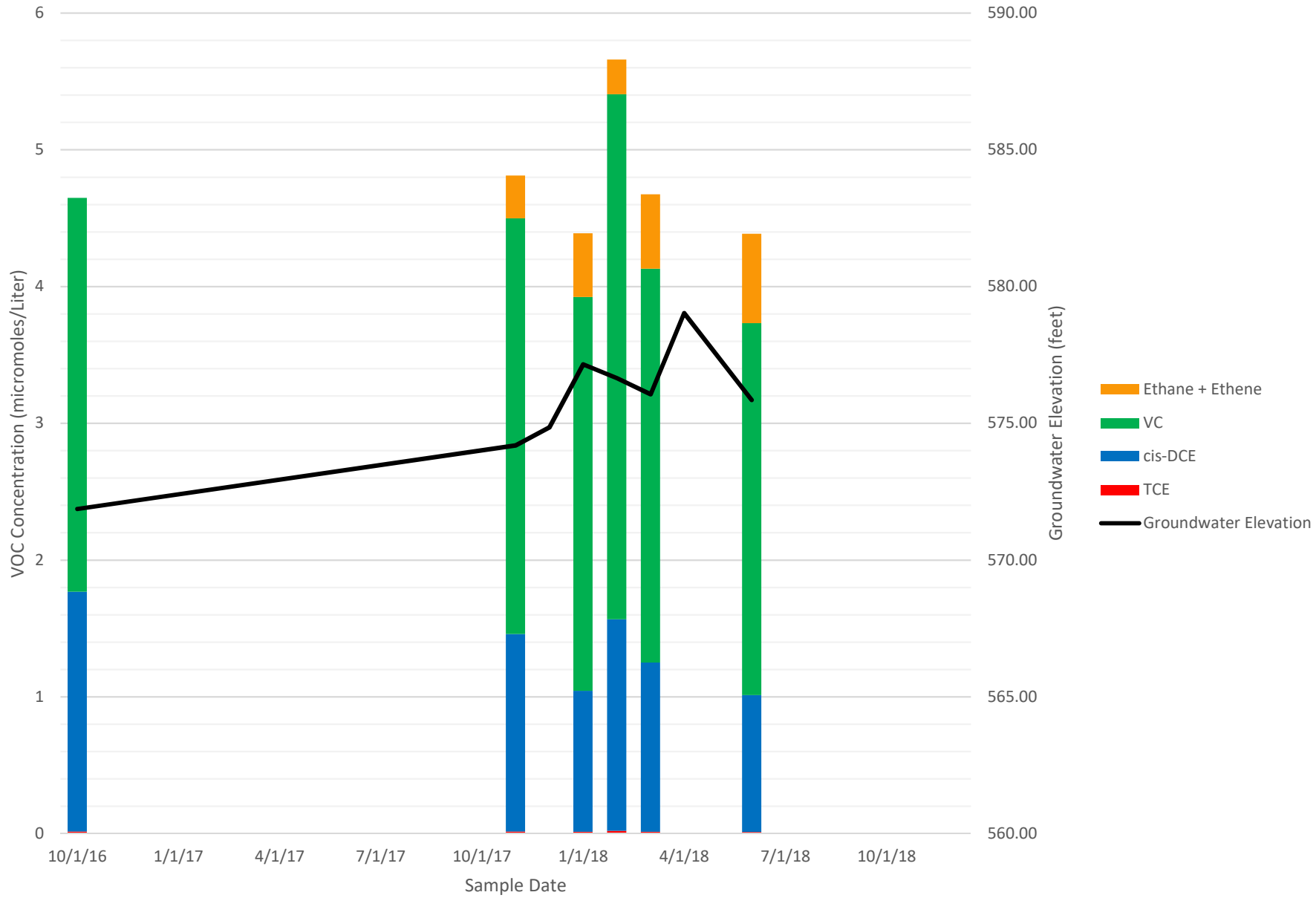
89-15(1)



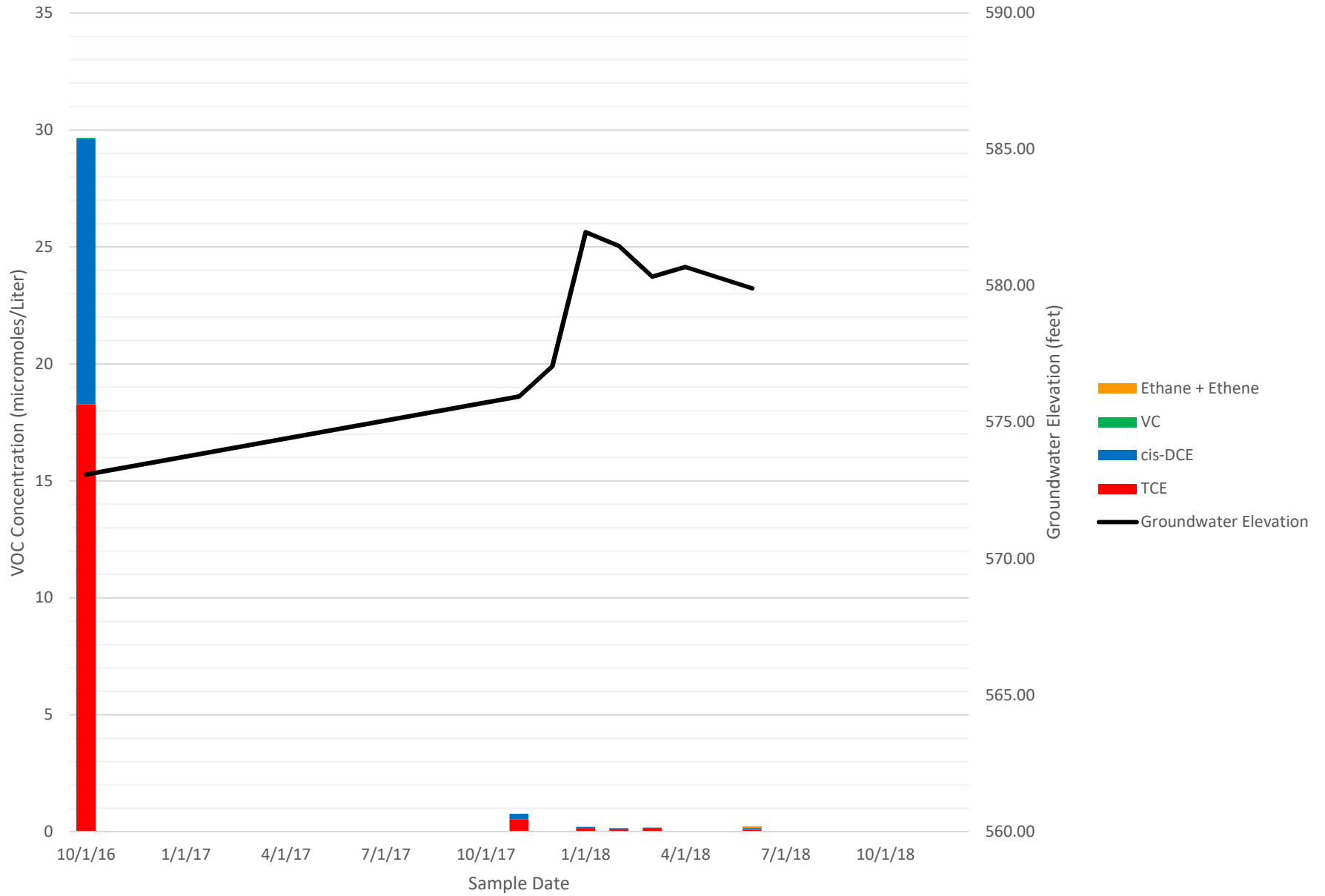
B-10A(1)



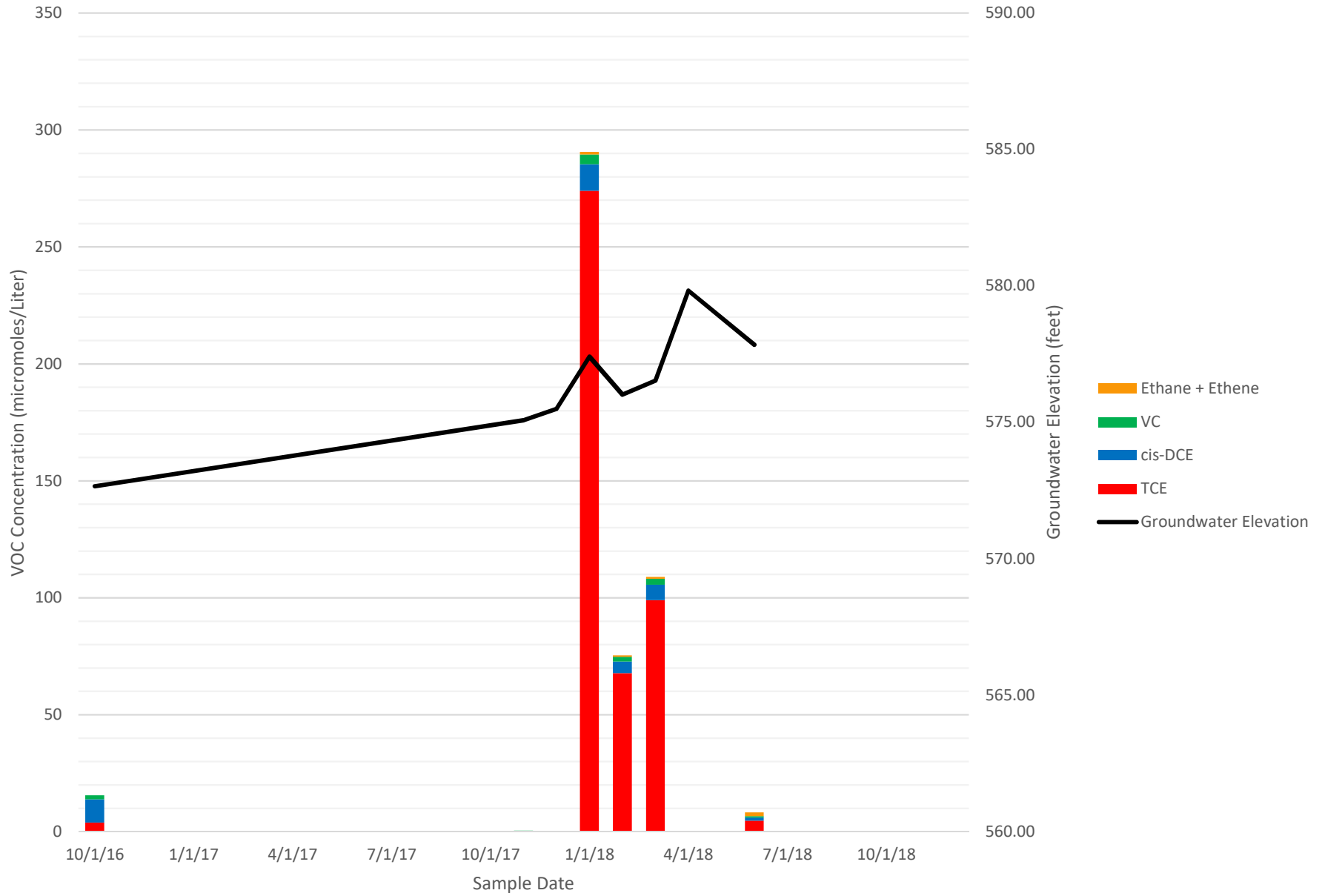
B-14(1)



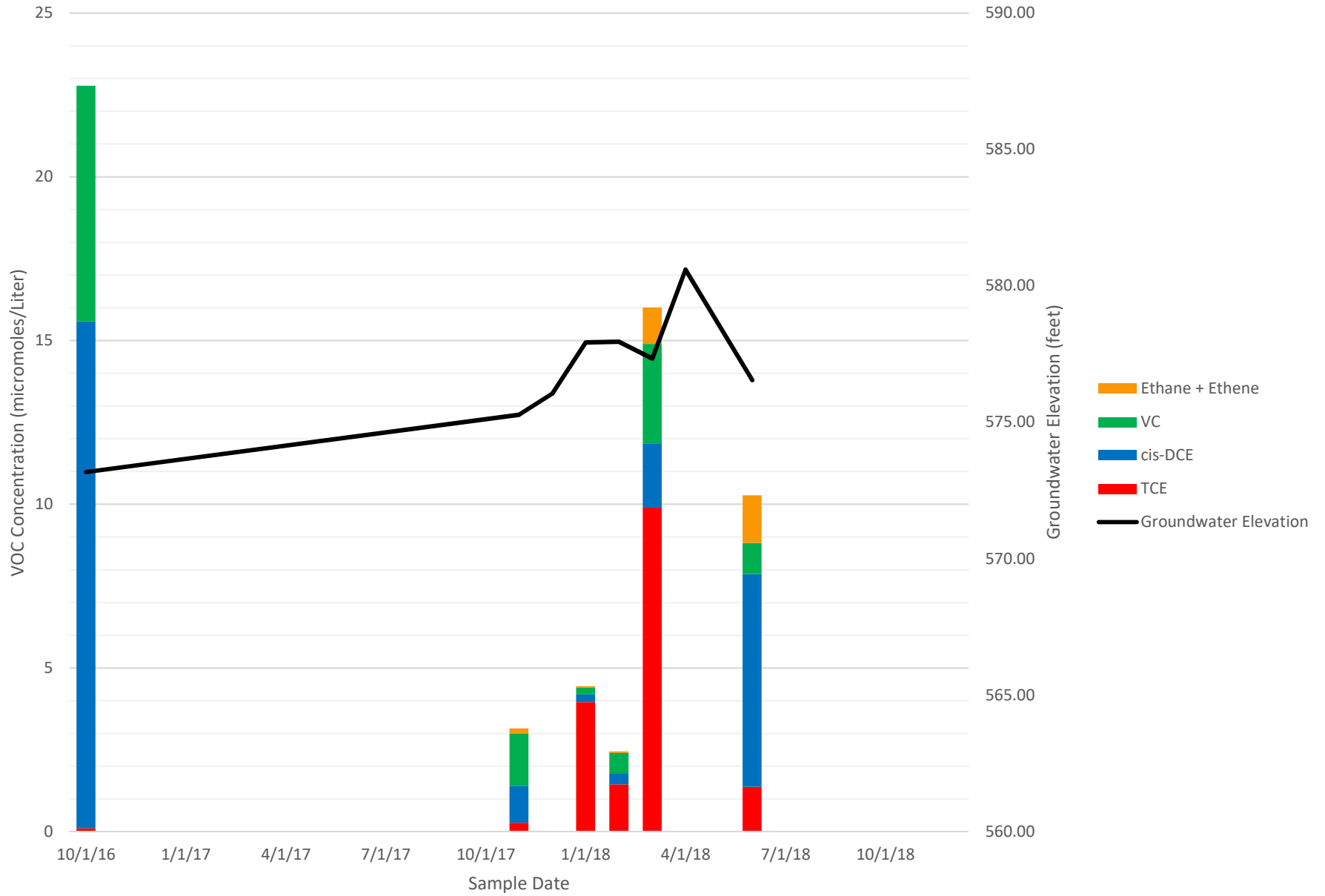
DW-9



DW-10



DW-11



DW-12

