

03 December 2018

Mr. Joshua Keller
Environmental Manager
Indiana Department of Environmental Management
100 North Senate Ave.
Indianapolis, IN 46204-2251

**RE: Report of the Ninth Performance Groundwater Monitoring Event
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana
Facility Cleanup ID 7100149
Wood Project Number 3359-15-1040**

Dear Mr. Keller:

Enclosed is the *Report of the Ninth Performance Groundwater Monitoring Event* performed at the TORX Facility located in Rochester, Indiana prepared by Wood Environment & Infrastructure Solutions, Inc. (Wood). The work was completed as described in the *Remediation Work Plan* dated 24 June 2014.

This report details the results of the ninth performance groundwater monitoring event, which occurred in July 2018. The groundwater data indicates chlorinated compound degradation is continuing in the treatment zones. The overall total site-wide mass of chlorinated compounds in the treatment areas has been reduced by 90% from baseline concentrations, the highest reduction observed in any performance monitoring event to date.

The tenth and planned final performance monitoring event was recently completed in October 2018. Pending the results of that event Wood plans to initiate stability groundwater monitoring in 2019. A detailed stability monitoring plan will be prepared by Wood and submitted to IDEM for review. If you have any questions or comments following your review of this report, please call our office at 937-859-3600.

Sincerely,
Wood Environment & Infrastructure Solutions, Inc.


Paul J. Stork
Project Manager


K. Joe Deatherage, PE
Senior Engineer

Enclosure

cc: Jamison Schiff, Textron, Inc.

REPORT OF THE NINTH PERFORMANCE GROUNDWATER MONITORING EVENT

Former TORX Facility

4366 North Old US Highway 31
Rochester, Indiana

Prepared for:

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December 2018

Project No. 3359-15-1040

IMPORTANT NOTICE

This report was prepared exclusively for Textron, Inc. by Wood Environment & Infrastructure, Inc. (Wood). The quality of information, conclusions and estimates contained herein is consistent with the level of effort involved in Wood's services and based on: i) information available at the time of preparation, ii) data supplied by outside sources and iii) the assumptions, conditions and qualifications set forth in this report. This report is intended to be used by Textron, Inc. only, subject to the terms and conditions of its contract with Wood. Any other use of, or reliance on, this report by any third party is at that party's sole risk.

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ACRONYMS

ABC	Anaerobic Biochem (ABC®)
CVOC	chlorinated volatile organic compounds
DCE	dichloroethene
DHC	Dehalococcoides bacteria
DO	dissolved oxygen
ERD	Enhanced Reductive Dechlorination
IDEM	Indiana Department of Environmental Management
ISCR	In-situ Chemical Reduction
mg/L	milligrams per liter
µg/L	micrograms per liter
NTU	Nephelometric Turbidity Units
ORP	oxygen reduction potential
QAPP	Quality Assurance Project Plan
RWP	Remediation Work Plan
TCE	trichloroethene
TOC	total organic carbon
Site	former TORX facility
USEPA	U.S. Environmental Protection Agency
FA	volatile fatty acid
VOC	Volatile organic compound
Wood	Wood Environment & Infrastructure, Inc.
ZVI	zero valent iron

1.0 INTRODUCTION

Wood Environment & Infrastructure Solutions, Inc. (Wood), formerly Amec Foster Wheeler Environment and Infrastructure, Inc., has prepared this report to document performance monitoring results associated with implementation of In-Situ Chemical Reduction (ISCR) and Enhanced Reductive Dechlorination (ERD) remedies for groundwater containing chlorinated volatile organic compounds (CVOCs) at and in the vicinity of the former TORX Facility (now operated by Acument) located at 4366 North Old US Highway 31 in Rochester, Indiana (Site). A Site location map is presented as **Figure 1**.

2.0 REMEDIAL INJECTION ACTIVITIES

Wood was retained by Textron, Inc. to conduct remedial injection activities at the former TORX facility to treat groundwater containing CVOCs. The overall remedial approach involves treating the portion of the source area near the Western Pond behind (west of) the facility using ISCR technology, and stimulating biologically mediated reductive dechlorination at the remainder of the source area west of the building, beneath the manufacturing building, and in most of the downgradient plume. Full-scale remediation injection activities commenced in 2015. Additional “polishing” injections were performed in 2016 and 2017. The treatment zones, arrays, and monitoring well locations are shown on **Figure 2**. A summary of the remediation activities chronology is provided below.

A Remediation Work Plan (RWP) was prepared in June 2014 and submitted to the Indiana Department of Environmental Management (IDEM) for approval. IDEM approved the RWP with comments provided in September and October 2014. Wood provided a response to comments from IDEM in December 2014. The first stage of the implementation of the RWP began in November 2014 with the installation of the injection well network (305 injection wells). Details of the injection array layout and injection well construction were provided in Wood’s January 25, 2016 *Report of Injection Well and Monitoring Well Installation*.

Upon completion of the installation of the injection well network, implementation of the ERD remedial injection activities began in June 2015. ISCR injections were implemented in the source area behind the building in June and July 2015. ERD injections were implemented in

the source area behind the building and in downgradient treatment zones A through D between July and September 2015. The ERD injections for the source area located beneath the building were performed in February 2016. The initial full-scale remediation injection locations are shown on **Figure 2**.

As detailed in the RWP, the performance of the remediation of the CVOCs in groundwater at the site is monitored on a regular basis through the implementation of the Performance Groundwater Monitoring Program. The results of the third Performance Groundwater Monitoring event (June 2016) and subsequent events indicated the need for additional bio-stimulant amendment in certain treatment arrays. Wood designed a polishing injection program to address these areas. Polishing injections were performed during the 2016 and 2017 fourth quarters. The 2016 and 2017 polishing injection locations are shown on **Figure 2**.

ERD polishing injections in 2016 and 2017 using formulations of Anaerobic Biochem (ABC®) were completed in the Source Area at the Western Pond, in the Source Area both outside and beneath the building, and in Treatment Zones A through D. The ABC® was supplied by Redox Tech, LLC (Redox Tech) and is referred to as “ABC” hereinafter. ISCR polishing injections were also completed at the Site during the 2016 and 2017. In 2016, a combination of zero valent iron (ZVI) and ABC was injected into Treatment Zone B, targeting a silt layer beneath the shallow groundwater zone in vicinity of MW-24 and OW-3(55). This combination of ZVI and ABC was designed to drive aquifer chemistry to a highly reductive environment. The 2016 polishing injections are documented in Wood’s *Report of Polishing Remedial Injections and the Fifth Performance Groundwater Monitoring Event*, dated August 2017. In 2017, a combination of (ZVI and ABC was injected at the ISCR source area adjacent to the western pond and in Array A. The 2017 polishing injections are documented in Wood’s *Report of Polishing Remedial Injections and the Eighth Performance Groundwater Monitoring Event*, dated August 2018.

This report documents the ninth performance groundwater monitoring event that has been conducted following commencement of the full-scale remediation. Previous performance groundwater monitoring is documented in the following reports:

- The first performance monitoring event was conducted in August and October 2015 and is documented in Wood's *Report of Remedial Injection Activities and Initial Performance Monitoring*, dated 16 March 2016.
- The second performance monitoring event was conducted in February and March 2016 and is documented in Wood's *Report of Remedial Injection Activities and Second Performance Monitoring*, dated 06 July 2016.
- The third performance monitoring event was conducted in June 2016 and is documented in Wood's *Report of the Third Remedial Injection Performance Groundwater Monitoring Event in Support of Remedial Activities*, dated 16 December 2016.
- The fourth performance monitoring event was conducted in September 2016 and is documented in Wood's *Report of the Fourth Remedial Injection Performance Groundwater Monitoring Event* dated January 2017.
- The fifth performance monitoring event was conducted between December 2016 and February 2017 and is documented in Wood's *Report of Polishing Remedial Injections and the Fifth Performance Groundwater Monitoring Event*, dated August 2017.
- The sixth performance monitoring event was conducted in June 2017 and is documented in Wood's *Report of the Sixth Performance Groundwater Monitoring Event* dated November 2017.
- The seventh performance monitoring event was conducted during the second and third quarters of 2017 and is documented in Wood's *Report of the Seventh Performance Groundwater Monitoring Event* dated February 2018.
- The eighth performance monitoring event was conducted in June 2017 and is documented in Wood's *Report of the Eighth Performance Groundwater Monitoring Event* dated August 2018.

3.0 PERFORMANCE MONITORING OBJECTIVES

Wood conducted the ninth groundwater performance monitoring event in July 2018. The purpose of the groundwater performance monitoring is to assess the performance of ISCR

and ERD remedies implemented for the Site. The objectives of the performance monitoring are to assess the following within the Treatment Zones:

- Distribution of the remedial amendments,
- Geochemistry effects of the amendment, and
- Contaminant concentrations and transformation.

Performance monitoring results were used to identify refinements to the ERD and ISCR amendment polishing injections in order to optimize remedy effectiveness.

3.1 Scope of Work

Wood conducted sampling at 43 monitoring wells located within and downgradient of the treatment zones. For most performance monitoring wells, groundwater was purged using low-flow sampling techniques. Certain smaller diameter wells were purged by bailing. Field water quality parameters were monitored during purging. Groundwater was sampled once field water quality parameters had stabilized. Groundwater samples were analyzed for volatile organic compounds (VOCs), total organic carbon (TOC), and dissolved gases (methane, ethane, and ethene).

4.0 BASELINE RESULTS

Baseline groundwater monitoring consisting of a complete set of analytical parameters was conducted in 2012 prior to initiating a Pilot Study for the evaluation of enhanced reductive dechlorination and in-situ chemical reduction. A subset of the performance monitoring wells were purged and sampled using low-flow groundwater sampling techniques.

Groundwater was assessed for geochemical parameters [oxidation-reduction potential (ORP), dissolved oxygen (DO), and pH], VOCs, anions (nitrate, chloride, and sulfate), TOC, alkalinity, Dehalococcoides bacteria (DHC), dissolved gases (methane, ethane, and ethene), volatile fatty acids, and select metals (arsenic, selenium, iron, and manganese).

The analytical methods used are presented in **Table 1**. The results of this baseline sampling, supplemented with results of routine groundwater monitoring conducted from 2012 through 2014, are included on **Tables 2 through 4**. We note that the baseline initial

monitoring event for certain wells included in the performance monitoring occurred at later dates (e.g., in 2013 or 2014).

5.0 FIELD ACTIVITIES

On 16 July 2018, prior to commencing groundwater sampling, depth to groundwater measurements were collected, and groundwater elevations were calculated using the monitoring well casing elevations previously determined by a registered surveyor (**Table 5**). Groundwater contour maps of the remediation areas were prepared for the shallow overburden zone (**Figure 3**) and intermediate overburden zone (**Figure 4**).

Performance monitoring wells, identified on **Table 1**, were sampled between 17 July 2018 and 26 July 2018. The 1-inch diameter monitoring wells, MW-12 and MW-13 located east of North Old US Highway 31 and monitoring wells MW-67, MW-68, MW-71 and MW-72 located inside the Acument building were purged and sampled using disposable 0.75-inch diameter polyvinyl chloride bailers. Prior to sample collection, at least three well volumes of groundwater were removed from each well that was bailed with the exception of MW-12, which bailed dry and was sampled once groundwater had recovered sufficiently. Groundwater samples were collected directly from the bailers. Groundwater field parameters including pH, temperature, conductivity, oxidation-reduction potential, dissolved oxygen, and turbidity were measured during purging and recorded on sampling forms presented in **Appendix A**.

The remainder of the performance monitoring wells are 2-inch diameter and were purged and sampled using a bladder pump. Prior to sample collection, groundwater was purged from the wells using a low-flow procedure. Groundwater field parameters including pH, temperature, conductivity, ORP, dissolved oxygen, and turbidity, as well as, groundwater elevation, were measured approximately every 5 minutes until at least three sequential readings showed stabilization, i.e., +/- 0.1 for pH, +/- 10 millivolts for ORP, +/- 10 Nephelometric Turbidity Units (NTUs) for turbidity, and +/- 10% for dissolved oxygen. Upon achieving stabilization, groundwater samples were collected directly from the pump discharge tubing. Copies of the field sample collection logs are presented in **Appendix A**.

Groundwater samples were collected into laboratory-supplied, pre-preserved vials and labeled with the sample information. Quality control samples including field blanks, equipment blanks, and trip blanks were also submitted. Field blanks were collected by filling a laboratory supplied container with deionized water. Equipment blanks were collected by pouring deionized water through the decontaminated pump and into the sampling container. Trip blanks were prepared by the laboratory and accompanied the samples during transport. A trip blank accompanied each shipment of VOC samples.

Following sample collection, the sample containers were placed on ice in coolers and shipped under chain of custody to ALS Environmental laboratory in Holland, Michigan for VOC analysis by United States Environmental Protection Agency (USEPA) Method 8260B, and TOC by Method 9060. Samples for dissolved gas analyses were shipped under chain-of-custody to Microseeps, a division of Pace Analytical, in Pittsburgh, Pennsylvania, for analysis by Method AM20GAX.

Sampling pumps were decontaminated between wells using a liquinox wash, potable water rinse, and distilled water rinse. Dedicated sampling tubing was used to purge and sample each well, and new disposable bailers were used for sampling monitoring wells MW-12, MW-13, MW-67, MW-68, MW-71 and MW-72. Disposable equipment was changed out between each well.

6.0 ANALYTICAL METHODS AND USE

Groundwater samples were collected and analyzed to provide data pertinent to the amendment distribution, geochemical conditions, and contaminant concentrations and transformation. The analytical methods and purpose of the data is described below and in **Table 1**.

6.1 Amendment Distribution Indicators

6.1.1 Total Organic Carbon

The groundwater samples were analyzed for TOC by Method 9060. The amendment injected to promote ISCR and ERD provides an organic carbon source to the aquifer system. Therefore, increases in TOC relative to baseline conditions are an indicator of

amendment distribution to the performance monitoring well. TOC results above 20 milligrams per liter (mg/L) are considered favorable.

6.2 Redox Conditions

6.2.1 Oxidation-Reduction Potential

ORP was measured during groundwater purging using a YSI 6920 multi-parameter water quality sonde. ORP is a potentiometric measurement of the tendency for electron transfer. ORP is measured in voltage relative to the reference electrode with positive values indicating an oxidizing environment (ability to accept electrons) and negative values indicating a reducing environment (ability to furnish electrons). A reducing environment is favorable for anaerobic reductive dechlorination of CVOCs.

6.2.2 Dissolved Oxygen

Dissolved oxygen was measured during groundwater purging using a YSI 6920 multi-parameter water quality sonde. Dissolved oxygen readings provide data on whether aerobic or anaerobic conditions exist. In an anaerobic setting, the dissolved oxygen is depleted (<0.5 mg/L).

6.3 Buffering - pH

A YSI 6920 multi-parameter water quality sonde was used to measure pH during groundwater purging. Microbial growth and the desired biological processes can be hindered or halted at low and high pH. The ideal pH range for degrading bacteria is 6 to 8. Fermentation processes associated with the remediation can result in alteration of the natural pH. If pH is lower than 5 or higher than 9, a buffering agent may be needed to provide a suitable environment for the desired biological activity.

6.4 ERD Indicators

6.4.1 VOCs

The groundwater samples were analyzed for VOCs by Method 8260B. The objective of the remediation is to reduce the mass of chlorinated VOCs in the groundwater to demonstrate that the downgradient plume concentrations are declining or stable. Although the CVOCs are expected to decline as a result of the remedial measures, degradation products such as dichloroethene (DCE) and vinyl chloride may temporarily increase as a result of dechlorination.

6.4.2 Dissolved Gases

The groundwater samples were analyzed for dissolved gases including methane, ethane, and ethene by Method AM20GAX. Elevated levels of methane are an indicator that fermentation is occurring under anaerobic conditions. Methane concentrations greater than 1 mg/L are considered favorable. Elevated levels of ethene and ethane are indicative that complete anaerobic dechlorination of CVOCs is occurring.

7.0 DATA EVALUATION

Tables 2 through 4 present the analytical results. The measured field parameters referenced in Section 5.0 are included in **Table 1**. **Figures 5 through 7** present a summary of the results of the CVOC analyses performed on samples from the monitoring wells in the treatment areas. Copies of the laboratory reports and chain-of-custodies are presented in **Appendix B**.

The following subsections discuss the response of the aquifer to the biostimulant and the concentration of CVOCs in each treatment area.

7.1 Source Zone Behind (West of) Building

Four monitoring wells located in the source zone behind the building were sampled for performance monitoring: MW-81(27), MW-59(29), PM-2, and PM-3. The contaminant mass has been fully reduced at PM-2, and therefore this well is not included in the subsequent discussions on indicator parameters. TOC concentrations were above 20 mg/L in MW-81(27) and PM-3, indicating continued presence of amendment. The TOC concentration at MW-59(29) was 11 mg/L in the primary sample and 12 mg/L in the replicate sample.

The pH in the referenced wells ranged between 5.05 and 6.36, which is generally acceptable for biological-based treatment. The ORP in the referenced wells was negative, which indicates reducing conditions. The dissolved oxygen readings were less than 0.5 mg/L in wells MW-81(27), PM-2 and PM-3. Whereas the dissolved oxygen in well MW-59(29) was 0.76 mg/L.

Trichloroethene (TCE) remained below reporting limits in all wells, indicating remediation of the parent contaminant has occurred at this location. A significant reduction of cis-1,2-DCE

and vinyl chloride has occurred at all four wells. With the exception of cis-1,2-DCE concentrations at PM-3, cis-1,2-DCE and vinyl chloride concentrations were comparable to or lower than the February 2018 sampling event. Cis-1,2-DCE at well PM-3 increased slightly from 2,700 micrograms per liter (µg/L) to 3,000 µg/L.

Methane concentrations for the four wells remain high, indicating anaerobic fermentation is occurring. Ethene concentrations remain elevated, indicating complete dechlorination of some of the contaminant mass.

A summary of the pertinent results for the performance monitoring wells in the Source Area behind the Building is provided below:

Source Zone Behind Plant Performance Monitoring Wells	Molar Mass % Reduction Relative to Baseline				Amendment Indicator	Gases	Geochemical Environment	
	Total CVOC	TCE	cis-1,2-DCE	Vinyl Chloride	TOC > 20 mg/L	Ethene > 10 µg/L	ORP (+) or (-)	DO < 0.5 mg/L
MW-81(27)	98%	100%	99%	94%	YES	YES	-	YES
MW-59(29)	99.9%	--	99.9%	99.9%	NO	YES	-	NO
PM-2	100%	100%	100%	100%	YES	YES	-	YES
PM-3	27%	--	92%	-128%	YES	YES	-	YES
Total (4 wells)	80%							

Conclusions

- Total CVOC mass has decreased by 80% relative to baseline.
- Contaminant mass is substantially reduced in MW-59(29), MW-81(27), and PM-2.
- Conditions are favorable for continued reductive dechlorination. The slightly acidic buffering conditions at well PM-3 could hinder biological activity, though other biological parameters are favorable following the 2017 polishing injection.

- While PM-3 has the highest contaminant mass at the site and only demonstrates a reduction from baseline of 35%, it is notable that the cis-1,2-DCE mass in this well has decreased by 92%, indicating that the 2017 polishing injection is enhancing reductive dechlorination.

7.2 Source Zone Inside (Beneath) Building

Seven monitoring wells located in the source zone beneath the building were sampled for performance monitoring: MW-67, MW-68, MW-71, MW-72, MW-76, MW-77, and MW-78. The contaminant mass has been fully reduced at MW-72, MW-77, and MW-78, and therefore these wells are not included in the subsequent discussions on indicator parameters.

TOC concentrations were above 20 mg/L in all wells, indicating effective substrate distribution. The pH ranged from 5.76 to 6.24, which is adequate for biological-based treatment. The ORP was negative for all four of the wells, which indicates reducing conditions. Dissolved oxygen readings were greater than 1 mg/L except at well MW-76. The dissolved oxygen readings at MW-67 and MW-71 may be biased high due to oxygen that may have been introduced during bailing and water transfer. At well MW-76, the dissolved oxygen reading was below 0.5 mg/L indicating anaerobic conditions.

With the exception of a significant reduction in CVOC mass at well MW-67 and an increase in CVOC mass wells MW-71, CVOC mass was similar to the previous sampling event. TCE remained below reporting limits in all the wells.

Methane concentrations remain high, indicating anaerobic fermentation is occurring. Ethene concentrations were high, indicative that complete anaerobic dechlorination is occurring.

A summary of the pertinent results for the performance monitoring wells in the Source Area Inside (Beneath) the Building is provided on the following page:

Source Zone Inside (Beneath) Plant Performance Monitoring Wells	Molar Mass % Reduction Relative to Baseline				Amendment Indicator	Gases	Geochemical Environment	
	Total CVOC	TCE	cis-1,2-DCE	Vinyl Chloride	TOC > 20 mg/L	Ethene > 10 µg/L	ORP (+) or (-)	DO < 0.5 mg/L
MW-67	99.9%	--	99.9%	99.9%	YES	YES	-	NO
MW-68	95%	--	99.1%	67%	YES	YES	-	NO
MW-71	91%	--	100%	60%	YES	YES	-	NO
MW-72	100%	--	100%	100%	YES	NO	-	NO
MW-76	76%	--	99.5%	-85%	YES	YES	-	YES
MW-77	100%	--	100%	100%	NO	NO	-	YES
MW-78	100%	--	100%	100%	NO	NO	-	YES
Total (7 wells)	96.4%							

NA = not available

Conclusions

- The total molar mass for the primary CVOCs has thus far been reduced by 96% in the Source Zone Inside (Beneath) the Building based upon data from the seven performance monitoring wells relative to baseline.
- Contaminant mass has been fully reduced at wells MW-72, MW-77, and MW-78.
- Conditions are favorable for continued reductive dechlorination.

7.3 Treatment Zone A

Nine monitoring wells located in Treatment Zone A were sampled for performance monitoring: MW-6C, MW-12, MW-13, MW-62, MW-20(35), MW-20(51), MW-82, OW-1(28), and OW-1(39). The, contaminant mass at MW-12, MW-13, MW-62(36), MW-20(35), MW-20(51), MW-82(58), OW-1(28), and OW-1(39) has been reduced by 100%, and therefore these wells are not included in the subsequent discussions on indicator parameters. The indicator parameter discussion is focused on well MW-6C.



TOC concentrations were below 20 mg/L in MW-6C. The pH at MW6C was 6.64, which is adequate for biological-based treatment. ORP indicates reducing conditions in the well. The dissolved oxygen reading at MW-6C was 0.88mg/L.

TCE was below reporting limits in all the wells. The cis-1,2-DCE and vinyl chloride concentrations decreased relative to the prior monitoring event results at MW-6C, the only well with current detections of these constituents.

Methane concentrations were high in MW-6C, indicating anaerobic fermentation is occurring. Ethene was elevated in MW-6C indicating complete reductive dechlorination is occurring.

A summary of the pertinent results for the performance monitoring wells in Treatment Zone A is provided below:

Treatment Zone A Performance Monitoring Well	Molar Mass % Reduction Relative to Baseline				Amendment Indicator	Gases	Geochemical Environment	
	Total CVOC	TCE	cis-1,2-DCE	Vinyl Chloride	TOC > 20 mg/L	Ethene > 10 µg/L	ORP (+) or (-)	DO < 0.5 mg/L
MW-6C	97%	--	96%	97%	NO	YES	-	NO
MW-12	100%	--	100%	100%	NO	NO	-	NO
MW-13	100%	--	100%	100%	NO	NO	-	NO
MW-62(36)	100%	--	100%	100%	NO	NO	-	YES
MW-20(35)	100%	--	100%	100%	NO	NO	-	YES
MW-20(51)	100%	--	100%	100%	NO	NO	-	YES
MW-82(58)	100%	100%	100%	100%	NO	NO	-	YES
OW-1(28)	100%	--	100%	100%	NO	YES	-	NO
OW-1(39)	100%	--	100%	100%	NO	YES	-	YES
Total (9 wells)	99.6%							

NA = not available

Conclusions

- The total molar mass for the primary CVOCs has thus far been reduced by 99.6 in Treatment Zone A based upon data from the ninth performance monitoring wells relative to baseline.

- Contaminant mass has been fully reduced in eight of the nine wells: MW-12, MW-13, MW-62, MW-20(35), MW-20(51), MW-82(58), OW-1(28), and OW-1(39).
- In MW-6C the contaminant mass has been steadily declining and ethene is elevated, indicating ERD is actively continuing.

7.4 Treatment Zone B

Seven monitoring wells located in Treatment Zone B are monitored for performance monitoring: MW-14, MW-24(24.9), MW-24(55.4), OW-2(33), OW-2(53), OW-3(35), and OW-3(55).

Since the previous reporting period, contaminant concentrations have been reduced to non-detect at MW-14. Contaminant mass has historically not been present at MW-24(24.9), and the mass at OW-2(33), OW-2(53), OW-3(35), and OW-3(55) has also been reduced by 100%; therefore, these six wells are not included in the subsequent discussions on indicator parameters. The indicator parameter discussion is focused on one well, MW-24(55.4).

The TOC concentration at MW-24(55.4) was below 20 mg/L. The pH at MW-24(55.4) was 7.25, which is within the ideal range for biological-based treatment. The ORP was negative, which indicates reducing conditions. Dissolved oxygen readings were below 0.5 mg/L.

TCE was below reporting limits in all the wells. Cis-1,2-DCE and vinyl chloride concentrations in MW-24(55.4) were comparable to the previous sampling event.

Methane concentration was high in at MW-24(55.4), indicating anaerobic fermentation is occurring. The ethene concentration was significant enough to indicate that complete reductive dechlorination is occurring.

A summary of the pertinent results for the performance monitoring wells in Treatment Zone B is provided on the following page:

Treatment Zone B Performance Monitoring Well	Molar Mass % Reduction Relative to Baseline				Amendment Indicator	Gases	Geochemical Environment	
	Total CVOC	TCE	cis-1,2-DCE	Vinyl Chloride	TOC > 20 mg/L	Ethene > 10 µg/L	ORP (+) or (-)	DO < 0.5 mg/L
MW-14	100%	100%	100%	100%	NO	YES	-	YES
MW-24(24.9)	--	--	--	--	NO	NO	-	YES
MW-24(55.4)	67%	100%	85%	--	NO	YES	-	YES
OW-2(33)	100%	--	100%	100%	NO	NO	-	YES
OW-2(53)	100%	--	100%	100%	NO	NO	-	YES
OW-3(35)	100%	--	100%	100%	NO	NO	-	YES
OW-3(55)	100%	100%	100%	100%	YES	YES	-	YES
Total (7 wells)	99.2%							

Conclusions

- The total molar mass for the primary CVOCs has thus far been reduced by over 99.2% in Treatment Zone B based upon data from the seven performance monitoring wells relative to baseline.
- Contaminant mass historically has not been present in MW-24(24.9) and has been fully reduced in five other wells: MW-14, OW-2(33), OW-2(53), OW-3(35), and OW-3(55).
- TCE, which historically was detected at concentrations above 100 µg/L in well MW-24(55.4), remained non-detect. Cis-1,2-DCE and vinyl chloride concentrations in MW-24(55.4) were comparable to the previous sampling event

7.5 Treatment Zone C

Six monitoring wells located in and/or immediately down-gradient of Treatment Zone C were sampled for performance monitoring: MW-15, MW-25(16.4), MW-25(32.6), MW-25(45.2), OW-4(35), and OW-4(54). Contaminant mass has been reduced 100% at all six monitoring wells, and therefore this section does not include a discussion of indicator parameters.

A summary of the pertinent results for the performance monitoring wells in Treatment Zone C is provided below:

Treatment Zone C Performance Monitoring Well	Molar Mass % Reduction Relative to Baseline				Amendment Indicator TOC > 20 mg/L	Gases Ethene > 10 µg/L	Geochemical Environment	
	Total CVOC	TCE	cis-1,2-DCE	Vinyl Chloride			ORP (+) or (-)	DO < 0.5 mg/L
MW-15	100%	100%	100%	100%	YES	YES	-	NO
MW-25(16.4)	100%	--	100%	100%	NO	NO	-	YES
MW-25(32.6)	100%	100%	100%	100%	NO	NO	-	YES
MW-25(45.2)	100%	100%	100%	100%	YES	NO	-	YES
OW-4(35)	100%	100%	100%	100%	YES	NO	-	YES
OW-4(54)	100%	--	100%	--	YES	NO	-	YES
Total (6 wells)	100%							

Conclusions

- The total molar mass for the primary CVOCs has been reduced by 100% in Treatment Zone C based upon data from the six performance monitoring wells relative to baseline.

7.6 Treatment Zone D

Ten monitoring wells located in Treatment Zone D were sampled for performance monitoring: MW-16, MW-17, MW-26(17.5), MW-26(28.8), MW-26(58.8), ZVI-2(17.5), ZVI-2(32.5), OW-5(16), OW-5(35), and OW-5(45). With the exception of well MW-17, the contaminant mass has been reduced 100% at the referenced wells; therefore, these wells are not included in the subsequent discussions on indicator parameters. The indicator parameter discussion is focused on well MW-17.

The TOC concentration at MW-17 was 4.0 mg/L. The pH was 6.89 at MW-17, which is ideal for biological-based treatment. ORP indicates reducing conditions at well MW-17.



TCE was below reporting limits in all the wells except MW-17. TCE concentrations at MW-17 decreased relative to the June 2017 sample results. No vinyl chloride was detected at MW-17.

Methane concentrations were high at most wells indicating that anaerobic fermentation is occurring. The methane concentration at MW-17 was 4,800 mg/L. Ethene concentrations were low at well MW-17.

A summary of the pertinent results for the performance monitoring wells in Treatment Zone D is provided below:

Treatment Zone D Performance Monitoring Well	Molar Mass % Reduction Relative to Baseline				Amendment Indicator	Gases	Geochemical Environment	
	Total CVOC	TCE	cis-1,2-DCE	Vinyl Chloride	TOC > 20 mg/L	Ethene > 10 µg/L	ORP (+) or (-)	DO < 0.5 mg/L
MW-16	100%	100%	100%	100%	NO	NO	-	YES
MW-17	58%	65%	39%	--	NO	NO	-	YES
MW-26(17.5)	100%	--	100%	100%	NO	NO	-	YES
MW-26(28.8)	100%	100%	100%	100%	NO	NO	-	YES
MW-26(58.8)	100%	--	100%	--	NO	NO	-	YES
ZVI-2(17.5)	100%	--	100%	100%	NO	NO	-	YES
ZVI-2(32.5)	100%	--	100%	100%	NO	NO	-	NO
OW-5(16)	100%	100%	100%	100%	NO	NO	-	YES
OW-5(35)	100%	100%	100%	100%	NO	NO	-	YES
OW-5(45)	100%	100%	100%	100%	NO	NO	-	YES
Total (10 wells)	99.2%							

Conclusions

- The total molar mass for the primary CVOCs has thus far been reduced by 99.2% in Treatment Zone D based upon data from the 10 performance monitoring wells relative to baseline.

- With the exception of well MW-17, the contaminant mass has been reduced 100% at the referenced wells. .
- Total CVOC mass at well MW-17 has decreased 58% from baseline.

7.7 Quality Control Results

The VOC data was validated in general accordance with the Quality Assurance Project Plan (QAPP). The validation included an evaluation of the data quality and a review of the field quality assurance sample results. The data validation report is included in **Appendix B**. The conclusions of the data validation indicated that certain results required qualification as detailed below.

The laboratory data conformed to the guidelines in the QAPP with a few exceptions. A detail of the exceptions is presented in Appendix B. The exceptions include:

- Exceedances of greater than 20% calibration differences for bromomethane, chloroethane, and chloromethane. These compounds were not detected in the associated samples and reporting limits were qualified estimated UJ. These compounds are not Site contaminants of concern.
- Percent recovery of chloromethane in laboratory control sample was less than the lower control limit of 70. Chloromethane was not detected in the associated samples and reporting limits were qualified estimated UJ. This compound is not a Site contaminant of concern.
- MS/MSD percent recoveries for several compounds including cis-1,2 DCE and TCE were analyzed outside the specified control limits of 70-130. As such, one or more values detected for samples collected from wells OW6(63), MW-81(27), MW-68(32), and MW-11 were qualified estimated as UJ of J and may represent a potential low or high bias. For the target compounds (cis-1,2 DCE and TCE) the MS/MSD analyses exceeded the 70-130 control limits which may represent a potential high bias at wells MW-81(27), MW-68(32), and MW-11, where detected.

Three trip blanks, eleven equipment blanks, one field blank, and three field replicates were submitted and analyzed for VOCs. With the exception of chloroform, no VOCs were detected in the trip, field, or equipment blanks.

The relative percent differences for constituents detected in the primary and replicate samples were less than 25 percent, indicating acceptable sampling and analytical precision.

7.8 Trend Evaluations and Correlations

As requested by IDEM in a 27 November 2017 email, charts showing time series CVOC concentrations relative to depth to water, dissolved oxygen, and ORP were prepared for the performance groundwater monitoring wells, excluding performance groundwater monitoring wells for which the CVOCs have been non-detect for the previous three or more events. Results qualified with a U, indicating the compound was not detected at or above the reporting limit, are plotted at the reporting limit. Results qualified with a J as estimated below the reporting limit are plotted at the estimated concentration. The charts are provided in **Appendix C**. The following observations were generated from review of the charts:

- Changes in CVOC concentrations do not appear to correlate with water levels; although any correlation would be overwhelmed by CVOC changes attributed to the remediation.
- Over the last four performance monitoring events, reductions in vinyl chloride concentrations at PM-3 appear to correlate with reductions of ORP.
- The overall decline in TCE observed at MW-17 appears to coincide with overall reductions in ORP, which is expected under ERD (i.e. 2016/2017 polishing events).

Figures (C-1, C-2) showing the total CVOC concentrations, dissolved oxygen, ORP, and groundwater contours by water bearing zone are also provided in **Appendix C**. All ORP readings taken during the July 2018 event were negative except at well MW-71. Excluding the dissolved oxygen readings taken during bailing, dissolved oxygen readings were below or just marginally above 1.0 mg/L.

Elevated levels of methane are an indicator that fermentation is occurring under anaerobic conditions. Dissolved methane was detected in groundwater samples during the July 2018 monitoring event at concentrations up to 30 mg/L. The highest concentrations were observed in the intermediate groundwater unit. Dissolved methane concentrations in the shallow

overburden wells were at or below 25 mg/L. Isopleth figures (C-3, C-4) for dissolved methane are included in **Appendix C**.

8.0 CONCLUSIONS

Based on the ISCR and ERD injections and subsequent performance monitoring results, Wood offers the following observations:

- The CVOC concentrations in groundwater at the Site have decreased significantly since the ISCR and ERD injections were initiated in 2015, as overall total site-wide treatment area mass has been reduced by 90% from baseline concentrations, the highest overall mass reduction observed in the nine performance monitoring events. Based on current contaminant mass concentrations, most of the remaining mass is limited to the source area west and beneath the Acument facility. Considering the levels of TOC within these areas, continued reduction of contaminant mass via ERD is expected.
- Contaminant mass has been fully reduced in several performance monitoring wells that previously showed increases in dechlorination by-products (1,2-cis DCE and/or vinyl chloride). These include MW-13, MW-15, MW-72, and OW-4(54).
- The contaminant mass has been fully reduced in 33 of the 43 performance monitoring wells.
- Methane concentrations in groundwater samples collected from numerous wells situated in the source area and down-gradient treatment zones exceeded the dissolved-phase methane screening level of 10 mg/L (see **Table 3**). Due to the exceedance at one or more wells, Wood has implemented semi-annual vapor monitoring beneath and inside the Acument facility as detailed in Section 6 of the *Eighth Performance Groundwater Monitoring Event* dated August 2018.

Based on the vapor monitoring conducted in January 2018, methane vapors were not detected beneath the facility's slab or in indoor air. Wood will continue to monitor

for potential methane vapors on a semi-annual basis through 2018 as long as dissolved methane concentrations in monitoring wells located in the Acument building remain above 10 mg/L. Wood anticipates a decline in dissolved methane concentrations as no more polishing injections are proposed at the site. If sub-slab methane vapors are detected and exceed 10% of the lower explosive limit, Wood will notify IDEM and develop a methane gas mitigation plan.

The CVOC plume appears to be stable. Pertinent observed elements demonstrating plume stability include the following:

- The overall total site-wide treatment area mass has been reduced by 90% from baseline concentrations.
- The source area mass (beneath building and west of building) has been reduced 89% from baseline.
- The mass at the leading edge of the treatment area (MW-17, MW-26, and ZVI-2) has been reduced by 99% from baseline.
- The parent compound, TCE, was below reporting limits in all the performance monitoring wells except: MW-17 at a concentration of 70 µg/L.
- During the previous reporting period, an increase in concentrations of dechlorination by-products (1,2-cis DCE and vinyl chloride) was observed in several monitoring wells located in the source area beneath the building and immediately east of the building. However, during this reporting period, the concentrations of dechlorination by-products decreased in these areas.

9.0 UPCOMING ACTIVITIES

The performance monitoring results continue to show significant and substantial reduction in CVOCs at and in the vicinity of the site. Per the Remediation Work Plan, performance groundwater monitoring can cease and stability monitoring initiate once plume concentrations at the perimeter of compliance wells, [MW-17, MW-26(17.5), MW-26(28.8),



MW-26(58.2), and MW-27(18)], have reached stable or decreasing concentrations. Based upon the performance monitoring results to date, contamination has been eliminated in all perimeter of compliance wells except MW-17, where the remaining mass is demonstrated to be decreasing/stable based on the collective sampling results since 2012. The final performance monitoring event was completed during the week of October 22, 2018 and establishes one year of performance monitoring following the 2017 polishing injections. Pending the results from the final performance monitoring event, no further polishing injections are planned, and the Site will transition into stability monitoring in 2019.



Textron, Inc.
TORX Facility Remediation
Report of Performance Monitoring

TABLES

Table 1
Biostimulation Post Injection Performance Monitoring Parameters and Wells
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

Frequency	Third Month and Sixth Month after Injections						Frequency	Ninth and Twelfth Month after Injections					
Treatment Areas	Source Zone Behind Plant	Source Zone Inside Plant	Zone A	Zone B	Zone C	Zone D	Treatment Areas	Source Zone Behind Plant	Source Zone Inside Plant	Zone A	Zone B	Zone C	Zone D
Objectives	Evaluate changes in aquifer chemistry and VOC concentrations in groundwater						Objectives	Evaluate Changes in VOC concentrations, Organic substrate, and ERD end products in groundwater					
Fixed Laboratory Analyses							Fixed Laboratory Analyses						
	4 Wells	7 Wells	9 Wells	7 Wells	6 Wells	10 Wells		4 Wells	7 Wells	9 Wells	7 Wells	6 Wells	10 Wells
VOCs ⁽¹⁾ , TOC ⁽²⁾ , Dissolved Gases ⁽³⁾	MW-81(27); MW-59(29); PM-2; PM-3	MW-67; MW-68; MW-71; MW-72; MW-76; MW-77; MW-78	MW-6C; MW-12; MW-13; MW-62; MW-20(35); MW-20(51); MW-82; OW-1(28); OW-1(39)	MW-14; MW-24(24.9); MW-24(55.4); OW-2(33); OW-2(53); MW-82; OW-3(35); OW-3(55)	MW-15; MW-25(16.4); MW-25(32.6); MW-25(45.2); OW-4(35); OW-4(54)	MW-16; MW-17; MW-26(17.5); MW-26(28.8); MW-26(58.2); ZVI-2(17.5); ZVI-2(32.5); OW-5(16); OW-5(35); OW-5(44)	VOCs; TOC; Dissolved Gases	MW-81(27); MW-59(29); PM-2; PM-3	MW-67; MW-68; MW-71; MW-72; MW-76; MW-77; MW-78	MW-6C; MW-12; MW-13; MW-62; MW-20(35); MW-20(51); MW-82; OW-1(28); OW-1(39)	MW-14; MW-24(24.9); MW-24(55.4); OW-2(s); OW-2(d); OW-3(s); OW-3(d)	MW-15; MW-25(16.4); MW-25(32.6); MW-25(45.2); OW-4(35); OW-4(54)	MW-16; MW-17; MW-26(17.5); MW-26(28.8); MW-26(58.2); ZVI-2(17.5); ZVI-2(32.5); OW-5(16); OW-5(35); OW-5(44)
Metals ⁽⁴⁾ , Alkalinity ⁽⁵⁾													
Anions ⁽⁶⁾													
DHC ⁽⁷⁾													
VFAs ⁽⁸⁾													
Field Readings							Field Readings						
Water Level ⁽⁹⁾	x	x	x	x	x	x	Water Level	x	x	x	x	x	x
ORP ⁽¹⁰⁾	x	x	x	x	x	x	ORP	x	x	x	x	x	x
pH	x	x	x	x	x	x	pH	x	x	x	x	x	x
Cond.	x	x	x	x	x	x	Cond.	x	x	x	x	x	x
Temperature	x	x	x	x	x	x	Temperature	x	x	x	x	x	x
DO ⁽¹¹⁾	x	x	x	x	x	x	DO	x	x	x	x	x	x
Turbidity	x	x	x	x	x	x	Turbidity	x	x	x	x	x	x

(1) - VOCs: volatile organic compounds (Method 8260)

(2) - TOC: total organic carbon (Method 9060)

(3) - Dissolved gases include methane, ethane, and ethene (Method AM20GAX)

(4) - Iron and Manganese (Method 6020A)

(5) - Alkalinity (Method A2320B)

(6) - Anions include sulfate, nitrate, and chloride (Method SW9056)

(7) - DHCs: dehalococoides [Quantitative Polymerase Chain Reaction (qPCR)]

(8) - VFAs: volatile fatty acids (Method AM23G)

(9) - Depth to water measurements using a water level indicator

(10) - ORP: Oxidation Reduction Potential

(11) - DO: Dissolved Oxygen

Table 2
Summary of Measured Field Parameters, Geochemistry, and Metals
Performed on the Groundwater Samples Collected from Performance Monitoring Wells
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

Treatment Area	Sample ID	Sample Date	Field Measured Parameters							Geochemistry					Metals	
			pH	Conductivity	Temperature	Turbidity	DO	ORP	Alkalinity, Bicarbonate (as CaCO ₃)	Alkalinity, Total (as CaCO ₃)	TOC	Chloride	Nitrogen, Nitrate	Sulfate	Iron	Manganese
			S.U.	mS/cm	°C	NTU	mg/L	mV	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Source - Behind	ATR-MW81(27)-G110512	11/5/2012	6.82	0.486	15.32	5.3	0.09	-65.6	160	160	9.7	51	0.02 U	2.9	5.1	0.33
	ATR-MW81(27)	12/27/2012	6.57	0.495	14.35	0.0	0.34	152.4	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW81(27)-G010713	1/7/2013	6.65	0.488	14.51	8.3	0.22	-55.8	230	230	190	55	0.02 U	5.7	5.2	0.53
	ATR-MW81(27)-G020513	2/5/2013	7.08	0.448	14.13	8.7	0.34	-153.2	360	360	26	56	0.02 U	5.7	3.2	0.32
	ATR-MW81(27)-G030613	3/6/2013	6.72	0.416	13.26	1.2	0.14	-75.1	170	170	12	60	0.02 U	5.1	3.2	0.36
	ATR-MW81(27)-G050313	5/3/2013	6.78	0.419	13.64	4.8	NM	-81.1	180	180	11	61	0.02 U	3.6	3.4	0.2
	ATR-MW81(27)-G082715	8/27/2015	5.68	0.804	15.26	4.9	0.24	-25.1	210	210	370	65	0.027	1.1	14	0.78
	ATR-MW81(27)-G022316	2/23/2016	5.99	1.302	13.35	5.1	1.76	-37.3	190	190	280	110	0.2	1 U	63	1.1
	ATR-MW81(27)-G061616	6/16/2016	5.59	0.961	14.86	9.0	0.57	-55.1	NA	NA	220	NA	NA	NA	NA	NA
	ATR-MW81(27)-G092916	9/29/2016	5.86	0.776	18.03	8.4	1.73	-64.8	NA	NA	140	NA	NA	NA	NA	NA
	ATR-MW81(27)-G121316	12/13/2016	6.28	0.716	12.14	1.1	0.14	-73.2	110 X	110 X	120	82	0.065	2.0 U	47	0.41
	ATR-MW81(27)-G060717	6/7/2017	5.96	1.162	14.88	0.0	0.41	-72.8	200	200	170	170	0.02 U	1.0 U	93	0.86
	ATR-MW81(27)-G101117	10/11/2017	6.13	1.349	16.41	9.3	0.89	-87.9	NA	NA	120	NA	NA	NA	NA	NA
	ATR-MW-81(27)-G022818	2/28/2018	6.09	1.380	13.75	0.0*	0.34	-56.2	NA	NA	310	NA	NA	NA	NA	NA
	ATR-MW-81(27)-G022818R	2/28/2018	NA	NA	NA	NA	NA	NA	NA	NA	340	NA	NA	NA	NA	NA
	ATR-MW81(27)-G072418	7/24/2018	6.04	1.036	16.88	4.09	0.42	-63.6	NA	NA	82	NA	NA	NA	NA	NA
	ATR-MW59(29)-G092712	9/27/2012	6.86	0.417	14.92	0.9	0.35	-81.6	140	140	10	64	0.02 U	3.8	2.8	0.21
	ATR-MW59(29)-G122812	12/28/2012	5.56	1.178	14.15	5.0	0.25	-59.0	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW59(29)-G010713	1/7/2013	5.28	1.864	14.31	6.1	0.41	55.7	570	570	1,300	78	0.057	2.7	27	1.4
	ATR-MW59(29)-G020413	2/4/2013	6.81	1.012	13.84	4.5	0.55	-132.3	360	360	430	120	0.02 U	1 U	13	0.66
	ATR-MW59(29)-G030613	3/6/2013	6.12	0.802	13.64	14.4	0.13	-75.8	270	270	200	110	0.02 U	1 U	8.5	0.52
	ATR-MW59(29)-G050313	5/3/2013	6.61	0.476	14.09	9.0	0.17	-105.4	180	180	17	77	0.02 U	2.3	1.6	0.54
	ATR-MW59(29)-G082715	8/27/2015	6.61	0.477	14.77	3.1	0.32	-73.6	230	230	89	48	0.022	1.0 U	3.6	0.32
	ATR-MW59(29)-G022316	2/23/2016	6.37	1.744	13.42	13.7	2.06	-44.7	360	360	6.2	160	0.13	1.0 U	23	1.1
	ATR-MW59(29)-G061716	6/17/2016	5.83	1.247	17.39	29.6	0.59	-69.0	NA	NA	150	NA	NA	NA	NA	NA
	ATR-MW59(29)-G061716R	6/17/2016	NA	NA	NA	NA	NM	NA	NA	NA	140	NA	NA	NA	NA	NA
	ATR-MW59(29)-G093016	9/30/2016	6.42	1.350	16.64	1.4	2.23	-70.1	NA	NA	140	NA	NA	NA	NA	NA
	ATR-MW59(29)-G093016R	9/30/2016	NA	NA	NA	NA	NM	NA	NA	NA	120	NA	NA	NA	NA	NA
	ATR-MW59(29)-G121316	12/13/2016	6.44	0.838	10.05	1.8	0.83	-59.2	400 X	400 X	150	130	0.030	2 U	13	0.97
	ATR-MW59(29)-G121316R	12/13/2016	NA	NA	NA	NA	NA	NA	390 X	390 X	150	130	0.041	14	13	0.96
	ATR-MW59(29)-G060717	6/7/2017	6.07	1.350	15.16	0.0	0.37	-52.4	530	530	67	110	0.020 U	1.3	15	1.1
	ATR-MW59(29)-G060717R	6/7/2017	NA	NA	NA	NA	NA	NA	520	520	67	99	0.020 U	1.0 U	16	1.1
ATR-MW59(29)-G101117	10/11/2017	6.09	1.801	15.06	5.8	0.39	-78.8	NA	NA	39	NA	NA	NA	NA	NA	
ATR-MW-59(29)-G022818	2/28/2018	6.43	1.465	13.68	0.0*	0.34	-56.2	NA	NA	13	NA	NA	NA	NA	NA	
ATR-MW59(29)-G072418	7/24/2018	6.36	1.629	22.48	5.49	0.76	-89.5	NA	NA	11	NA	NA	NA	NA	NA	
ATR-MW59(29)-G072418R	7/24/2018	NA	NA	NA	NA	NA	NA	NA	NA	12	NA	NA	NA	NA	NA	

Table 2 (continued)
Summary of Measured Field Parameters, Geochemistry, and Metals
Performed on the Groundwater Samples Collected from Performance Monitoring Wells
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

Treatment Area	Sample ID	Sample Date	Field Measured Parameters							Geochemistry					Metals	
			pH	Conductivity	Temperature	Turbidity	DO	ORP	Alkalinity, Bicarbonate (as CaCO ₃)	Alkalinity, Total (as CaCO ₃)	TOC	Chloride	Nitrogen, Nitrate	Sulfate	Iron	Manganese
			S.U.	mS/cm	°C	NTU	mg/L	mV	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Source - Behind	ATR-PM2-G110512	11/5/2012	6.98	0.617	15.69	5.4	0.61	-49.8	230	230	9.7	50	0.02 U	1.7	5.4	0.58
	ATR-PM2	12/27/2012	6.56	0.519	13.20	50.8	0.40	34.5	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-PM2-G010713	1/7/2013	6.64	0.571	13.70	4.3	0.41	0.8	400	400	9.8	31	0.02 U	1.4	5.1	0.64
	ATR-PM2-G020413	2/4/2013	6.86	0.518	14.02	7.0	0.27	-133.9	250	260	9.9	33	0.02 U	1.3	5.0	0.71
	ATR-PM2-G030613	3/6/2013	6.78	0.530	13.15	4.8	0.12	-118.9	300	300	10	28	0.02 U	2.7	6.0	0.94
	ATR-PM2-G050313	5/3/2013	6.80	0.512	12.87	8.6	0.11	-125.5	300	300	16	26	0.02 U	7.3	5.5	0.84
	ATR-PM2-G082715	8/27/2015	6.48	0.706	15.01	2.9	0.51	-86.6	330	330	41	26	0.11	1.0 U	5.1	0.95
	ATR-PM2-G022316	2/23/2016	6.66	0.848	10.02	59.1	0.39	-56.4	390	390	73	56	0.082	1 U	11	1.5
	ATR-PM2-G061616	6/16/2016	6.01	0.843	16.11	30.9	0.56	-54.2	NA	NA	44	NA	NA	NA	NA	NA
	ATR-PM2-G092916	9/29/2016	6.53	0.677	18.74	20.9	0.35	-104.2	NA	NA	12	NA	NA	NA	NA	NA
	ATR-PM2-G121316	12/13/2016	6.80	0.658	6.75	79.1	1.89	-56.5	410 X	410 X	14	28	0.036	1.1	9.6	1.4
	ATR-PM2-G060717	6/7/2017	6.27	0.947	14.47	6.4	0.33	-89.3	450	450	19	33	0.02 U	2.7	12	1.4
	ATR-PM2-G101217	10/12/2017	6.41	1.193	16.49	<1.0	0.64	-96.7	NA	NA	11	NA	NA	NA	NA	NA
	ATR-PM2-G032918	3/29/2018	6.65	1.075	11.84	164	0.73	-28.6	NA	NA	130	NA	NA	NA	NA	NA
	ATR-PM2-G072418	7/24/2018	6.44	1.169	18.77	21.8	0.24	-98.0	NA	NA	53	NA	NA	NA	NA	NA
	ATR-PM3-G110512	11/5/2012	6.51	0.645	13.98	8.6	0.06	-31.8	260	260	14	47	0.056	3.9	3.2	0.63
	ATR-PM3	12/28/2012	6.55	0.461	12.12	1.8	0.29	-37.6	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-PM3-G010713	1/7/2013	6.47	0.573	12.07	4.6	0.41	35.7	240	240	15	50	0.02 U	4.7	1.9	0.61
	ATR-PM3-G020413	2/4/2013	6.59	0.494	13.70	9.8	0.22	-92.9	230	230	14	48	0.02 U	3.9	1.6	0.56
	ATR-PM3-G030513	3/5/2013	6.45	0.468	12.99	5.4	0.11	-83.7	NA	NA	14	NA	NA	NA	NA	NA
	ATR-PM3-G050213	5/2/2013	6.61	0.499	14.60	6.0	0.21	-62.1	240	240	15	49	0.02 U	3.5	3.7	0.53
	ATR-PM3-G082715	8/27/2015	5.82	2.011	17.48	517.6	0.81	-79.0	310	310	38,000	53	2.7	13	6.8	0.67
	ATR-PM3-G022316	2/23/2016	5.53	1.149	12.29	1,828.5	0.21	42.6	180	180	2,400	64	1.3	1.0 U	32	1.5
	ATR-PM3-G061716	6/17/2016	4.56	0.878	15.22	571.1	0.56	-49.6	NA	NA	760	NA	NA	NA	NA	NA
	ATR-PM3-G092916	9/29/2016	5.68	0.948	16.45	391.6	0.25	40.0	NA	NA	800	NA	NA	NA	NA	NA
	ATR-PM3-G121316	12/13/2016	4.78	2.067	7.18	1,140	0.67	5.9	210 X	210 X	12,000	39	6.3	23 U	66	2.6
	ATR-PM3-G060717	6/7/2017	4.66	1.717	14.71	109.7	0.26	66.2	340	340	810	110	0.02 U	1.0 U	53	2.1
ATR-PM3-G101217	10/12/2017	4.95	2.267	15.11	1,046.8	0.74	43.1	NA	NA	730	NA	NA	NA	NA	NA	
ATR-PM-3-G030118	3/1/2018	5.28	3.907	7.33	1,141.4	0.26	-26.7	NA	NA	1,800	NA	NA	NA	NA	NA	
ATR-PM-3-G072418	7/24/2018	5.05	3.638	19.67	1,087.1	0.49	-29.3	NA	NA	2,100	NA	NA	NA	NA	NA	
ATR-PM-3-G072418R	7/24/2018	NA	NA	NA	NA	NA	NA	NA	NA	2,100	NA	NA	NA	NA	NA	
Source - Inside	ATR-MW67(30)-G092612	9/26/2012	7.04	0.784	16.95	1,341.0	3.04	164.7	370	380	8.2	16	2.2	20	170	2.7
	ATR-MW67(30)-G050613	5/6/2013	7.03	0.633	NM	1,241.6	4.01	78.5	NA	NA	7.8	NA	NA	NA	NA	NA
	ATR-MW67-G031516	3/15/2016	7.00	1.002	17.02	1,040.4	-58.09*	14.6	370	370	8.2	67	2.6	24	4.6	0.97
	ATR-MW67-G062016	6/20/2016	6.36	1.439	17.77	2192	3.69	-81.3	NA	NA	50	NA	NA	NA	NA	NA
	ATR-MW67-G092916	9/29/2016	6.64	0.925	17.12	983.5	4.65	-89.6	NA	NA	68	NA	NA	NA	NA	NA
	ATR-MW67-G121216	12/12/2016	6.81	0.899	16.30	1,211	6.02	-58.7	420 X	420 X	100	58	0.036	3.3	64	2.2
	ATR-MW67-G060817	6/8/2017	6.50	1.504	17.88	801.0	2.85	-50.5	550	550	210	110	0.02 U	2.9	100	2.3
	ATR-MW67-G101217	10/12/2017	6.48	2.068	17.75	9,784.5	8.07	-65.0	NA	NA	84	NA	NA	NA	NA	NA
	ATR-MW-67-G030118	3/1/2018	6.78	2.165	17.52	0.0*	4.04	-38.4	NA	NA	210	NA	NA	NA	NA	NA
ATR-MW67(30)-G072518	7/25/2018	6.19	1.795	21.22	290.8	1.60	-43.0	NA	NA	99	NA	NA	NA	NA	NA	

Table 2 (continued)
Summary of Measured Field Parameters, Geochemistry, and Metals
Performed on the Groundwater Samples Collected from Performance Monitoring Wells
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

Treatment Area	Sample ID	Sample Date	Field Measured Parameters						Geochemistry						Metals	
			pH	Conductivity	Temperature	Turbidity	DO	ORP	Alkalinity, Bicarbonate (as CaCO ₃)	Alkalinity, Total (as CaCO ₃)	TOC	Chloride	Nitrogen, Nitrate	Sulfate	Iron	Manganese
			S.U.	mS/cm	°C	NTU	mg/L	mV	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Source - Inside	ATR-MW68-G031516	3/15/2016	6.12	1.308	16.98	47.0	-82.06*	-39.0	490	490	1,100	34	0.27	12	9.1	1.1
	ATR-MW68-G061716	6/17/2016	5.08	0.903	17.68	565.4	4.10	-36.4	NA	NA	350	NA	NA	NA	NA	NA
	ATR-MW68-G092916	9/29/2016	6.73	1.160	16.97	390.2	3.56	-55.6	NA	NA	160	NA	NA	NA	NA	NA
	ATR-MW68-G121316	12/13/2016	6.44	1.071	16.05	847.1	4.14	-33.5	510 X	510 X	160	44	0.065	5.6	34	1.6
	ATR-MW68-G060817	6/8/2017	6.58	1.748	17.75	177.3	3.81	-52.7	720	720	350	110	0.02 U	5.0 U	52	1.9
	ATR-MW68-G101217	10/12/17	NM	NM	NM	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW-68-G030118	3/1/18	6.50	2.421	17.20	0.0*	5.06	-14.2	NA	NA	350	NA	NA	NA	NA	NA
	ATR-MW68(32)-G072518	7/25/18	6.24	2.084	20.71	58.3	2.79	-40.6	NA	NA	350	NA	NA	NA	NA	NA
	ATR-MW71-G031516	3/15/2016	6.34	1.091	16.74	187.7	-85.10*	-59.5	350	350	95	93	0.055	5.4	16	1.4
	ATR-MW71-G062016	6/20/2016	5.87	3.470	19.39	294.8	3.95	-30.0	NA	NA	590	NA	NA	NA	NA	NA
	ATR-MW71-G092916	9/29/2016	6.12	1.964	16.37	279.1	5.60	-13.7	NA	NA	660	NA	NA	NA	NA	NA
	ATR-MW71-G121216	12/12/2016	5.68	2.054	15.89	347.7	5.38	-19.3	850 X	850 X	1,300	100	0.02 U	15	110	5.9
	ATR-MW71-G060817	6/8/2017	6.15	2.360	17.36	195.8	3.23	-45.5	1,000	1,000	580	170	0.02 U	2.0 U	79	3.4
	ATR-MW71-G101217	10/12/2017	5.73	2.312	17.21	108.1	4.88	-31.3	NA	NA	430	NA	NA	NA	NA	NA
	ATR-MW-71-G030118	3/1/2018	6.17	3.341	16.80	0.0*	6.21	20.6	NA	NA	1,100	NA	NA	NA	NA	NA
	ATR-MW71(33)-G072518	7/25/2018	5.99	2.855	21.09	109.4	2.00	-94.7	NA	NA	960	NA	NA	NA	NA	NA
	ATR-MW72(32)-G030613	3/6/2013	6.98	0.600	16.20	753.8	2.83	-56.1	280	280	NA	58	0.036	6.5	NA	NA
	ATR-MW72(32)-G050613	5/6/2013	6.99	0.570	16.95	721.0	3.04	-93.9	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW72-G031516	3/15/2016	5.96	1.629	16.86	93.6	-86.04*	-29.0	490	490	410	120	0.079	1.6	23	2.0
	ATR-MW72-G062016	6/20/2016	5.61	2.838	17.54	273.0	3.06	-62.3	NA	NA	630	NA	NA	NA	NA	NA
	ATR-MW72-G092916	9/29/2016	6.70	1.535	17.32	133.0	6.25	-78.8	NA	NA	380	NA	NA	NA	NA	NA
	ATR-MW72-G121316	12/13/2016	6.30	1.296	16.16	1,321.2	4.82	-52.2	640 X	640 X	320	93	0.055	3.5	63	3.1
	ATR-MW72-G060817	6/8/2017	6.22	2.496	17.66	614.4	4.40	-55.7	1,100	1,100	560	91	0.02 U	1.0 U	71	3.1
	ATR-MW72-G101217	10/12/2017	6.19	2.412	17.71	142.6	4.21	-100.6	NA	NA	160	NA	NA	NA	NA	NA
	ATR-MW-72-G030118	3/1/2018	7.00	2.752	17.55	0.0*	4.24	-86.1	NA	NA	68	NA	NA	NA	NA	NA
	ATR-MW72(32)-G072518	7/25/2018	6.45	2.379	20.70	122.4	2.64	-91.9	NA	NA	63	NA	NA	NA	NA	NA
	ATR-MW76-G031516	3/15/2016	6.31	0.960	17.20	525.6	NM	-92.0	380	380	110	52	0.19	6.1	8.0	0.44
	ATR-MW76(30)-G062016	6/20/2016	5.80	1.912	17.48	11.7	0.54	-55.2	NA	NA	140	NA	NA	NA	NA	NA
	ATR-MW76-G092916	9/29/2016	6.15	0.972	19.00	135.1	2.95	-57.9	NA	NA	170	NA	NA	NA	NA	NA
	ATR-MW76-G121416	12/14/2016	5.81	1.148	16.93	126.6	0.65	-362.2	370 X	370 X	670	81	0.30	2 U	24	0.73
	ATR-MW76-G060817	6/8/2017	5.29	2.412	17.43	<1.0	0.49	-17.5	630	630	500	110	0.02 U	1.0 U	41	1.3
	ATR-MW76-G101217	10/12/2017	6.16	2.117	18.69	19.6	0.86	-53.1	NA	NA	420	NA	NA	NA	NA	NA
	ATR-MW-76(30)-G030118	3/1/2018	5.75	1.675	17.83	11.7	0.28	-35.4	NA	NA	340	NA	NA	NA	NA	NA
	ATR-MW76(30)-G072518	7/25/2018	5.76	1.765	19.46	11.6	0.09	-59.6	NA	NA	390	NA	NA	NA	NA	NA
	ATR-MW76(30)-G072518R	7/25/2018	NA	NA	NA	NA	NA	NA	NA	NA	410	NA	NA	NA	NA	NA
	ATR-MW77-G031516	3/15/2016	7.42	0.339	15.66	74.3	NM	-83.8	150	150	2.5	9.9	0.02 U	2.1	0.48	0.16
	ATR-MW77-G062016	6/20/2016	7.01	0.598	16.06	3.3	0.57	-79.0	NA	NA	6.0	NA	NA	NA	NA	NA
	ATR-MW77-G092916	9/29/2016	7.47	0.295	19.61	4.8	4.29	-76.6	NA	NA	3.5	NA	NA	NA	NA	NA
	ATR-MW77-G121416	12/14/2016	7.21	0.380	15.05	1.2	2.23	-84.2	160 X	160 X	37	12	0.02 U	1.9	1.6	0.27
	ATR-MW77-G060817	6/8/2017	6.63	0.456	17.33	<1.0	0.60	-102.7	170	170	47	12	0.02 U	2.0 U	2.1	0.27
ATR-MW77-G101217	10/12/2017	6.93	0.518	17.21	0.0	0.21	-119.6	NA	NA	48	NA	NA	NA	NA	NA	
ATR-MW-77(41)-G030118	3/1/2018	7.26	0.483	16.36	0.0*	0.36	-46.8	NA	NA	16	NA	NA	NA	NA	NA	
ATR-MW77(41)-G072518	7/25/2018	7.20	0.385	19.42	8.3	0.14	-126.0	NA	NA	19	NA	NA	NA	NA	NA	

Table 2 (continued)
Summary of Measured Field Parameters, Geochemistry, and Metals
Performed on the Groundwater Samples Collected from Performance Monitoring Wells
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

Treatment Area	Sample ID	Sample Date	Field Measured Parameters						Geochemistry						Metals	
			pH	Conductivity	Temperature	Turbidity	DO	ORP	Alkalinity, Bicarbonate (as CaCO ₃)	Alkalinity, Total (as CaCO ₃)	TOC	Chloride	Nitrogen, Nitrate	Sulfate	Iron	Manganese
			S.U.	mS/cm	°C	NTU	mg/L	mV	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Source - Inside	ATR-MW78-G031516	3/15/2016	6.60	0.840	16.83	165.5	345.58*	-73.5	350	350	150	10	0.074	1.2	1.3	1.0
	ATR-MW78-G062016	6/20/2016	5.89	1.633	23.21	318.0	0.66	-23.0	NA	NA	340	NA	NA	NA	NA	NA
	ATR-MW78-G092916	9/29/2016	6.31	1.067	18.80	9.2	2.70	-36.5	NA	NA	240	NA	NA	NA	NA	NA
	ATR-MW78-G121416	12/14/2016	6.38	0.837	15.35	5.2	0.60	-23.2	520 X	520 X	180	43	0.044	5 U	6.9	1.7
	ATR-MW78-G060817	6/8/2017	5.68	1.500	15.73	<1.0	0.53	-20.3	500	500	150	11	0.02 U	1.0 U	6.4	0.86
	ATR-MW78-G101217	10/12/2017	6.48	1.209	16.27	1.6	0.48	-59.6	NA	NA	130	NA	NA	NA	NA	NA
	ATR-MW-78(35)-G030118	3/1/2018	6.66	0.858	16.54	0.0	0.39	-51.7	NA	NA	22	NA	NA	NA	NA	NA
	ATR-MW-78(35)-G030118R	3/1/2018	NM	NM	NM	NM	NM	NM	NA	NA	22	NA	NA	NA	NA	NA
ATR-MW78(35)-G072518	7/25/2018	6.86	0.547	17.63	11.7	0.03	-69.8	NA	NA	0.59	NA	NA	NA	NA	NA	
Zone A	ATR-MW6C-G092612	9/26/2012	7.16	0.439	15.26	0.0	0.31	-26.0	250	250	4.2	15	0.02 U	9.1	0.51	0.21
	ATR-MW6C-G030513	3/5/2013	7.11	0.446	15.03	0.0	0.22	-26.2	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW6C-G050713	5/7/2013	7.24	0.425	15.54	0.0	0.22	-62.0	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW6C-G050713R	5/7/2013	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW6C-G082615	8/26/2015	7.25	14.17	16.30	4.8	0.27	-20.2	230	230	8.2	21	0.22	7.6	0.32	0.22
	ATR-MW6C-G022316	2/23/2016	7.51	0.651	14.34	15.0	0.47	-54.0	260	260	3.2	24	0.02 U	8	1.3	0.24
	ATR-MW6C-G061616	6/16/2016	6.74	0.497	18.14	10.2	0.57	-107.2	NA	NA	7.3	NA	NA	NA	NA	NA
	ATR-MW6C-G092816	9/28/2016	7.59	0.644	15.95	4.0	0.18	-125.5	NA	NA	3.3	NA	NA	NA	NA	NA
	ATR-MW6C-G020117	2/1/2017	6.99	0.775	12.09	1.4	1.20	-96.7	400 X	400 X	10	32	0.02 U	5.0	2.5	0.38
	ATR-MW6C-G060717	6/7/2017	6.15	1.327	17.41	<1.0	0.47	-25.0	380	380	10	63	0.02 U	5.8	2.1	0.57
	ATR-MW6C-G101117	10/11/2017	6.59	0.938	15.66	0.0	0.74	-75.7	NA	NA	8.7	NA	NA	NA	NA	NA
	ATR-MW6C-G101117R	10/11/2017	NA	NA	NA	NA	NA	NA	NA	NA	8.2	NA	NA	NA	NA	NA
	ATR-MW-6C-G022818	2/28/2018	6.71	2.145	15.52	21.8	0.42	-70.3	NA	NA	9.6	NA	NA	NA	NA	NA
	ATR-MW-6C-G022818R	2/28/2018	NA	NA	NA	NA	NA	NA	NA	NA	9.4	NA	NA	NA	NA	NA
	ATR-MW6C-G072618	7/26/2018	6.64	0.767	18.29	9.7	0.88	-65.9	NA	NA	5.5	NA	NA	NA	NA	NA
	ATR-MW12-G050613	5/6/2013	7.37	0.458	14.60	433.9	2.91	-77.1	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW12-G082615	8/26/2015	6.91	17.28	15.45	188.6	1.86	-44.2	250	250	69	23	0.022	1.7	5.4	0.44
	ATR-MW12-G022416	2/24/2016	6.97	0.708	13.07	22.0	3.00	182.1	260	260	59	35	0.051	1.0 U	7.8	0.69
	ATR-MW12-G061616	6/16/2016	6.63	0.623	15.98	9.8	2.00	-101.2	NA	NA	64	NA	NA	NA	NA	NA
	ATR-MW12-G092816	9/28/2016	6.73	0.644	14.94	20.4	4.54	-107.4	NA	NA	37	NA	NA	NA	NA	NA
	ATR-MW12-G020117	2/1/2017	7.19	0.896	13.68	75.6	7.60	-31.5	400 X	400 X	100	28	0.02 U	2.1	22	1.2
	ATR-MW12-G060717	6/7/2017	NA	NA	NA	NA	NA	NA	400	400	59	22	0.02 U	3.5	24	0.86
	ATR-MW12-G101117	10/11/2017	NA	NA	NA	NA	NA	NA	NA	NA	23	NA	NA	NA	NA	NA
	ATR-MW-12-G022818	2/28/2018	7.22	1.399	15.32	10.9	0.56	-101.7	NA	NA	9.7	NA	NA	NA	NA	NA
	ATR-MW12-G072618	7/26/2018	6.88	0.758	18.59	69.8	5.83	-83.4	NA	NA	7.3	NA	NA	NA	NA	NA
	ATR-MW13-G092712	9/27/2012	7.26	0.382	14.80	337.4	1.70	-13.4	200	200	5.5	24	0.78	8.4	75	1.3
	ATR-MW13	2/5/2013	7.49	0.396	12.36	NM	2.07	-16.1	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW13-G050613	5/6/2013	7.25	0.397	13.91	344.1	3.24	-13.2	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW13-G082615	8/26/2015	7.06	21.18	14.20	570.1	4.92	-53.7	310	310	120	36	0.02 U	18	15	0.73
	ATR-MW13-G030216	3/2/2016	7.38	0.749	10.73	91.3	3.86	153.1	290	290	68	20	0.12	5.9	13	0.57
	ATR-MW13-G061616	6/16/2016	6.77	0.639	17.11	35.8	1.51	-114.1	NA	NA	11	NA	NA	NA	NA	NA
	ATR-MW13-G092816	9/28/2016	6.90	0.608	14.08	120.7	4.26	-103.6	NA	NA	11	NA	NA	NA	NA	NA
ATR-MW13-G020117	2/1/2017	7.22	0.786	13.60	208.9	6.46	-29.2	340 X	340 X	7.6	40	0.02 U	35	30	0.60	
ATR-MW13-G060717	6/7/2017	6.95	0.946	14.56	198.8	6.04	-76.9	450	450	6.7	21	0.02 U	56	27	0.86	
ATR-MW13-G101117	10/11/2017	6.91	1.608	14.78	307.3	4.02	-88.3	NA	NA	6.2	NA	NA	NA	NA	NA	
ATR-MW-13-G022818	2/28/2018	6.97	2.663	14.51	0.0*	4.48	-84.6	NA	NA	73	NA	NA	NA	NA	NA	
ATR-MW13-G072618	7/26/2018	6.78	0.804	19.31	50.0	3.47	-97.6	NA	NA	2.2	NA	NA	NA	NA	NA	

Table 2 (continued)
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Performed on the Groundwater Samples Collected from Performance Monitoring Wells
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

Treatment Area	Sample ID	Sample Date	Field Measured Parameters						Geochemistry						Metals	
			pH	Conductivity	Temperature	Turbidity	DO	ORP	Alkalinity, Bicarbonate (as CaCO ₃)	Alkalinity, Total (as CaCO ₃)	TOC	Chloride	Nitrogen, Nitrate	Sulfate	Iron	Manganese
			S.U.	mS/cm	°C	NTU	mg/L	mV	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Zone A	ATR-MW62(36)-G050213	5/2/2013	7.23	0.449	15.64	4.7	0.20	-81.4	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW62-G082715	8/27/2015	6.62	0.700	16.21	4.8	0.30	-87.4	300	300	39	40	0.1	1.1	3.9	2.9
	ATR-MW62-G022316	2/23/2016	7.14	0.872	14.14	29.13	0.39	-86.5	260	260	100	35	0.12	1 U	17	2.5
	ATR-MW62-G061616	6/16/2016	6.44	0.624	19.61	52.6	0.56	-120.6	NA	NA	47	NA	NA	NA	NA	NA
	ATR-MW62-G092916	9/29/2016	7.40	0.535	15.72	1.3	0.17	-157.5	NA	NA	35	NA	NA	NA	NA	NA
	ATR-MW62-G020117	2/1/2017	6.87	1.140	13.03	6.8	0.15	-123.6	440 X	440 X	190	50	0.02 U	1 U	49	4.5
	ATR-MW62(36)-G060717	6/7/2017	5.62	1.340	16.29	<1.0	0.39	-53.4	420	420	42	24	0.02 U	1.0 U	27	2.1
	ATR-MW62-G101117	10/11/2017	6.66	0.889	15.02	7.3	0.09	-129.3	NA	NA	25	NA	NA	NA	NA	NA
	ATR-MW-62(36)-G022818	2/28/2018	7.04	0.887	14.26	0.0*	0.34	-152.2	NA	NA	36	NA	NA	NA	NA	NA
	ATR-MW62(36)-G072418	7/24/2018	7.13	0.374	17.40	1.6	0.07	-143.5	NA	NA	7.3	NA	NA	NA	NA	NA
	ATR-MW20(35)-G050713	5/7/2013	7.27	0.451	15.85	0.0	0.15	-107.2	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW20(35)-G082715	8/27/2015	7.00	0.639	16.43	2.1	0.33	-95.4	320	320	84	18	0.02 U	3.1	2.6	0.37
	ATR-MW20(35)-G082715R	8/27/2015	NA	NA	NA	NA	NA	NA	320	320	88	18	0.02 U	3.3	2.6	0.37
	ATR-MW20(35)-G022316	2/23/2016	7.18	0.853	14.82	5.3	0.18	-76.8	320	320	110	21	0.081	1 U	9.6	0.86
	ATR-MW20(35)-G022316R	2/23/2016	NA	NA	NA	NA	NA	NA	320	320	110	22	0.079	1 U	10	0.85
	ATR-MW20(35)-G061616	6/16/2016	6.93	0.717	19.64	48.5	0.64	-135.6	NA	NA	67	NA	NA	NA	NA	NA
	ATR-MW20(35)-G092816	9/28/2016	7.07	0.486	17.47	13.2	3.10	-103.4	NA	NA	15	NA	NA	NA	NA	NA
	ATR-MW20(35)-G092816R	9/28/2016	NA	NA	NA	NA	NA	NA	NA	NA	16	NA	NA	NA	NA	NA
	ATR-MW20(35)-G020117	2/1/2017	6.91	0.821	12.49	9.6	0.38	-141.1	410 X	410 X	53	25	0.02 U	1 U	15	0.45
	ATR-MW20(35)-G020117R	2/1/2017	NA	NA	NA	NA	NA	NA	410 X	410 X	54	25	0.02 U	1 U	15	0.48
	ATR-MW20(35)-G060717	6/7/2017	6.25	1.157	17.39	<1.0	0.45	-78.4	370	370	6.7	24	0.02 U	2.2	11	0.31
	ATR-MW20(35)-G060717R	6/7/2017	NA	NA	NA	NA	NA	NA	380	380	7.0	24	0.02 U	1.6	11	0.32
	ATR-MW20(35)-G101117	10/11/2017	6.67	1.010	15.73	<1.0	0.72	-99.6	NA	NA	7.3	NA	NA	NA	NA	NA
	ATR-MW-20(35)-G022818	2/28/2018	6.74	1.968	15.26	19.0	0.30	-92.5	NA	NA	6.3	NA	NA	NA	NA	NA
	ATR-MW20(35)-G072418	7/24/2018	6.86	0.701	17.13	5.2	0.04	-102.6	NA	NA	5.4	NA	NA	NA	NA	NA
	ATR-MW20(51)-G050713	5/7/2013	7.51	0.340	15.22	0.0	0.26	-133.8	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW20(51)-G082715	8/27/2015	6.01	1.861	17.32	3.2	0.27	-62.0	740	740	740	6.5	0.08	1.0 U	46	3.5
	ATR-MW20(51)-G022316	2/23/2016	6.85	1.151	12.89	33.9	0.70	-79.0	360	360	220	14	0.18	1 U	98	1.6
	ATR-MW20(51)-G061616	6/16/2016	6.44	1.014	21.10	10.5	0.52	-125.3	NA	NA	83	NA	NA	NA	NA	NA
	ATR-MW20(51)-G092816	9/28/2016	6.80	0.837	17.66	8.2	0.42	-136.4	NA	NA	21	NA	NA	NA	NA	NA
	ATR-MW20(51)-G020117	2/1/2017	6.74	0.903	11.09	39.8	0.62	-135.1	500 X	500 X	18	9.8	0.02 U	1 U	31	0.61
	ATR-MW20(51)-G060717	6/7/2017	6.17	0.850	15.30	<1.0	0.62	-70.5	270	270	7.1	7.5	0.02 U	1.3	14	0.23
	ATR-MW20(51)-G101117	10/11/2017	7.04	0.718	15.79	<1.0	0.84	-148.3	NA	NA	6.2	NA	NA	NA	NA	NA
	ATR-MW-20(51)-G022818	2/28/2018	7.07	1.795	14.80	9.8	1.09	-129.6	NA	NA	5.8	NA	NA	NA	NA	NA
	ATR-MW20(51)-G072418	7/24/2018	7.19	0.406	19.14	7.5	0.12	-137.9	NA	NA	4.2	NA	NA	NA	NA	NA
	ATR-MW82(58)-G030513	3/5/2013	7.34	0.515	13.84	0.0	0.09	-83.3	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW82(58)-G050713	5/7/2013	7.40	0.411	14.93	0.0	0.21	-79.0	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW82-G082615	8/26/2015	6.19	62.61	15.24	4.2	0.15	-10.2	990	990	1600	5.4	0.021	3.0	5.8	7.4
	ATR-MW82-G022316	2/23/2016	7.46	1.381	12.70	28.3	0.28	-113.5	370	370	310	7.7	0.1	1 U	23	1.7
	ATR-MW82-G061616	6/16/2016	6.38	0.991	15.98	19.5	0.57	-124.5	NA	NA	280	NA	NA	NA	NA	NA
ATR-MW82-G092816	9/28/2016	7.36	0.791	16.26	9.2	0.23	-154.6	NA	NA	35	NA	NA	NA	NA	NA	
ATR-MW82-G020117	2/1/2017	6.89	1.123	11.42	3.8	0.63	-139.9	610 X	610 X	220	14	0.02 U	1 U	46	0.57	
ATR-MW82-G060717	6/7/2017	6.68	0.672	16.76	0.0	1.47	-121.6	310	310	4.9	18	0.02 U	1.0 U	26	0.31	
ATR-MW82-G101117	10/11/2017	6.67	0.845	15.55	4.2	0.11	-128.5	NA	NA	6.3	NA	NA	NA	NA	NA	
ATR-MW-82(58)-G022818	2/28/2018	6.90	0.815	14.79	0.0*	0.26	-121.2	NA	NA	4.3	NA	NA	NA	NA	NA	
ATR-MW82(58)-G072418	7/24/2018	6.89	0.757	17.23	10.5	0.16	-121.6	NA	NA	3.3	NA	NA	NA	NA	NA	

Table 2 (continued)
Summary of Measured Field Parameters, Geochemistry, and Metals
Performed on the Groundwater Samples Collected from Performance Monitoring Wells
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

Treatment Area	Sample ID	Sample Date	Field Measured Parameters						Geochemistry						Metals	
			pH	Conductivity	Temperature	Turbidity	DO	ORP	Alkalinity, Bicarbonate (as CaCO ₃)	Alkalinity, Total (as CaCO ₃)	TOC	Chloride	Nitrogen, Nitrate	Sulfate	Iron	Manganese
			S.U.	mS/cm	°C	NTU	mg/L	mV	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Zone A	ATR-OW1(28)-G121714	12/17/2014	7.27	0.718	12.04	90.6	0.42	-63.4	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-OW1(S)-G082715	8/27/2015	7.48	1.440	13.60	5.4	0.04	-154	220	220	4.9	65	0.02 U	7.4	3.7	0.86
	ATR-OW1(28)-G022316	2/23/2016	7.03	0.654	11.68	34.9	1.03	-133.2	270	270	3.3	38	0.036	7.9	5.3	0.98
	ATR-OW1(28)-G061616	6/16/2016	7.05	0.789	15.18	11.0	0.58	-159.3	NA	NA	20	NA	NA	NA	NA	NA
	ATR-OW1(28)-G092816	9/28/2016	7.88	0.828	14.11	3.7	0.19	-160.1	NA	NA	12	NA	NA	NA	NA	NA
	ATR-OW1(28)-G013117	1/31/2017	7.37	0.848	12.90	0.1	0.83	-152.4	340 X	340 X	6.0	55	0.02 U	1.7	14	1.1
	ATR-OW1(28)-G060717	6/7/2017	6.92	0.834	14.65	0.5	0.93	-121.4	350	350	6.4	56	0.02 U	8.2	14	2.2
	ATR-OW1(28)-G101117	10/11/2017	7.02	1.149	14.70	<1.0	0.71	-149.2	NA	NA	5.7	NA	NA	NA	NA	NA
	ATR-OW-1(28)-G022818	2/28/2018	7.00	0.920	14.01	1.0	0.33	-136.7	NA	NA	5.7	NA	NA	NA	NA	NA
	ATR-OW1(28)-G072418	7/24/2018	6.78	0.777	15.28	6.3	1.02	-111.8	NA	NA	4.2	NA	NA	NA	NA	NA
	ATR-OW1(39)-G121714	12/17/2014	7.67	0.498	13.68	8.3	0.42	-139.0	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-OW1(D)-G082715	8/27/2015	6.67	1.338	15.21	3.8	0.22	-84.0	600	600	410	12	0.02 U	1.0 U	13	0.86
	ATR-OW1(39)-G022916	2/29/2016	6.68	0.843	13.24	57.4	0.36	-117.8	370	370	25	25	0.096	1.0 U	16	0.51
	ATR-OW1(39)-G061616	6/16/2016	6.88	0.639	15.97	9.3	0.55	-141.1	NA	NA	7.7	NA	NA	NA	NA	NA
	ATR-OW1(39)-G092816	9/28/2016	7.80	0.565	14.06	2.0	0.20	-142.9	NA	NA	5.9	NA	NA	NA	NA	NA
	ATR-OW1(39)-G020117	2/1/2017	6.97	0.872	12.49	2.7	0.10	-108.0	400 X	400 X	6.8	45	0.02 U	1 U	12	0.47
	ATR-OW1(39)-G060717	6/7/2017	6.89	0.594	15.09	3.9	0.97	-103.7	270	270	6.2	19	0.02 U	1.0 U	9.7	0.42
ATR-OW1(39)-G101117	10/11/2017	7.05	0.926	14.85	<1.0	0.97	-142.5	NA	NA	6.3	NA	NA	NA	NA	NA	
ATR-OW-1(39)-G022818	2/28/2018	7.24	0.689	13.62	0.7	0.37	-133.9	NA	NA	5.1	NA	NA	NA	NA	NA	
ATR-OW1(39)-G072418	7/24/2018	7.18	0.530	15.30	1.5	0.11	-151.0	NA	NA	4.5	NA	NA	NA	NA	NA	
Zone B	ATR-MW14-G092712	9/27/2012	7.07	0.407	13.87	0.0	0.43	30.3	250	260	2.4	7.1	0.02 U	14	0.08 U	0.44
	ATR-MW14	2/5/2013	7.50	0.390	12.86	67.0	0.92	-17.5	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW14-G030513	3/5/2013	7.22	0.393	12.95	0.0	0.17	13.0	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW14-G050213	5/2/2013	7.21	0.419	13.74	1.0	0.22	62.9	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW14-G100815	10/8/2015	7.14	0.635	13.20	0.5	0.14	-108.3	270	270	35	5.5	0.02 U	15	0.91	0.97
	ATR-MW14-G022916	2/29/2016	7.37	0.933	13.10	25.6	0.20	-154.4	390	390	160	9.9	0.056	5.7	7.5	0.57
	ATR-MW14-G061516	6/15/2016	6.82	1.173	16.72	3.4	0.52	-152.5	NA	NA	240	NA	NA	NA	NA	NA
	ATR-MW14-G092816	9/28/2016	7.36	0.801	14.86	1.3	0.31	-187.0	NA	NA	120	NA	NA	NA	NA	NA
	ATR-MW14-G020117	2/1/2017	6.95	0.527	9.31	6.4	0.59	-141.1	410 X	410 X	130	13	0.02 U	3.4	9.0	0.42
	ATR-MW14-G060717	6/7/2017	6.77	0.953	13.36	<1.0	0.55	-163.9	310	310	30	10	0.02 U	3.7	7.3	0.28
	ATR-MW14-G101017	10/10/2017	7.11	0.841	15.26	1.0	0.09	-165.2	NA	NA	13	NA	NA	NA	NA	NA
	ATR-MW-14-G022818	2/28/2018	7.15	0.623	12.99	4.2	0.34	-144.1	NA	NA	2.3	NA	NA	NA	NA	NA
	ATR-MW14-G072418	7/24/2018	7.08	0.614	19.11	6.6	0.05	-161.9	NA	NA	4.4	NA	NA	NA	NA	NA
	MTR-MW24(24.9)-6082213	7/22/2013	7.29	0.628	13.40	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW24 (24.9)-G100815	10/8/2015	6.95	0.693	14.00	4.2	0.92	7.9	290	290	1.4	39	0.19	12	0.13	0.26
	ATR-MW24(24.9)-G022916	2/29/2016	7.31	0.729	12.29	9.2	1.25	50.9	300	300	1.6	27	0.34	39	0.08 U	0.12
	ATR-MW24(24.8)-G061516	6/15/2016	6.72	0.680	13.77	4.8	0.54	-110.0	NA	NA	4.8	NA	NA	NA	NA	NA
	ATR-MW24(24.9)-G092816	9/28/2016	7.06	0.670	14.30	4.1	1.71	-9.3	NA	NA	2.8	NA	NA	NA	NA	NA
	ATR-MW24(24.9)-G013117	1/31/2017	7.35	0.635	11.47	2.5	1.03	-94.1	290 X	290 X	3.1	35	0.02 U	6.3	2.1	0.66
	ATR-MW24(24.9)-G060617	6/6/2017	6.29	0.621	14.24	<1.0	0.56	-77.7	250	250	2.6	34	0.02 U	19	1.2	0.59
ATR-MW24(24.9)-G101017	10/10/2017	7.07	0.694	16.31	0.2	0.30	-95.6	NA	NA	3.8	NA	NA	NA	NA	NA	
ATR-MW-24(24.9)-G022718	2/27/2018	7.12	0.645	12.92	0.0*	0.27	-193.5	NA	NA	8.1	NA	NA	NA	NA	NA	
ATR-MW24(24.9)-G072318	7/23/2018	7.33	0.610	14.35	2.9	0.01	-164.3	NA	NA	2.0	NA	NA	NA	NA	NA	

Table 2 (continued)
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TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

Treatment Area	Sample ID	Sample Date	Field Measured Parameters						Geochemistry						Metals	
			pH	Conductivity	Temperature	Turbidity	DO	ORP	Alkalinity, Bicarbonate (as CaCO ₃)	Alkalinity, Total (as CaCO ₃)	TOC	Chloride	Nitrogen, Nitrate	Sulfate	Iron	Manganese
			S.U.	mS/cm	°C	NTU	mg/L	mV	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Zone B	ATR-MW24(55.4)-G030513	3/5/2013	7.00	0.977	12.27	0.0	0.22	-46.1	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW24(55.4)-G050213	5/2/2013	7.04	0.703	13.00	0.7	0.20	-37.0	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW24(55.4)-G050213R	5/2/2013	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW24(55.9)-G100815	10/8/2015	6.81	0.876	13.21	0.0	0.36	-28.6	390	390	2	26	0.02 U	24	0.44	0.52
	ATR-MW24(55.9)-G022916	2/29/2016	7.29	0.802	12.28	6.3	0.30	-28.4	400	400	1.8	18	0.02 U	22	0.41	0.57
	ATR-MW24(55.4)-G061516	6/15/2016	6.65	0.803	14.81	1.1	0.57	-79.5	NA	NA	5.7	NA	NA	NA	NA	NA
	ATR-MW24(55.4)-G092816	9/28/2016	7.10	0.740	13.07	0.0	0.33	-49.9	NA	NA	3.1	NA	NA	NA	NA	NA
	ATR-MW24(55.4)-G013117	1/31/2017	7.31	0.767	9.80	1.2	1.11	-33.3	510 X	510 X	160	13	0.02 U	3.4	21	1.1
	ATR-MW24(55.4)-G060717	6/7/2017	6.72	1.143	12.89	<1.0	0.61	-167.3	350	350	84	13	0.02 U	2.0 U	14	0.30
	ATR-MW24(55.4)-G101017	10/10/2017	7.21	0.846	15.61	0.1	0.19	-147.3	NA	NA	31	NA	NA	NA	NA	NA
	ATR-MW-24(55.4)-G022718	2/27/2018	7.27	0.883	13.65	0.0*	0.21	-219.0	NA	NA	49	NA	NA	NA	NA	NA
	ATR-MW24(55.4)-G072318	7/23/2018	7.25	0.718	15.18	4.8	0.01	-175.3	NA	NA	2.7	NA	NA	NA	NA	NA
	ATR-MW24(55.4)-G072318R	7/23/2018	NA	NA	NA	NA	NA	NA	NA	NA	2.7	NA	NA	NA	NA	NA
	ATR-OW2(33)-G121814	12/18/2014	7.37	0.490	13.37	0.2	0.46	-91.0	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-OW2(33)-G100815	10/8/2015	7.10	0.551	17.22	67.1	2.47	-101.8	270	270	42	16	0.02 U	3.5	3.6	0.48
	ATR-OW2(33)-G022916	2/29/2016	7.27	1.039	12.87	150.0	5.52	-0.8	440	440	160	21	0.14	8.6	31	1.5
	ATR-OW2(33)-G061516	6/15/2016	7.37	0.632	23.12	176.6	0.68	-143.6	NA	NA	6.4	NA	NA	NA	NA	NA
	ATR-OW2(33)-G092716	9/27/2016	7.83	0.637	15.91	9.4	0.11	-139.8	NA	NA	6.5	NA	NA	NA	NA	NA
	ATR-OW2(33)-G013117	1/31/2017	7.20	0.797	12.12	9.0	0.15	-127.1	400 X	400 X	16	30	0.02 U	1.2	5.9	0.53
	ATR-OW2(33)-G060617	6/6/2017	6.89	0.806	15.32	21.0	0.90	-133.0	390	390	18	28	0.02 U	2.0 U	9.2	0.85
	ATR-OW2(33)-G101117	10/11/2017	6.97	1.175	14.53	1.4	0.84	-141.8	NA	NA	10	NA	NA	NA	NA	NA
	ATR-OW-2(33)-G022718	2/27/2018	6.88	0.861	14.61	2.2	0.18	-166.1	NA	NA	6.0	NA	NA	NA	NA	NA
	ATR-OW2(33)-G072318	7/23/2018	7.04	0.783	16.54	4.7	0.03	-137.0	NA	NA	5.7	NA	NA	NA	NA	NA
	ATR-OW2(53)-G121814	12/18/2014	7.60	0.510	13.36	2.7	0.48	-123.0	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-OW2(53)-G100815	10/8/2015	6.75	1.517	15.33	1.0	0.33	-112.4	650	650	440	2.6	0.02 U	1.0 U	8.6	1.6
	ATR-OW2(53)-G022916	2/29/2016	7.45	1.500	12.50	0.5	4.05	-14.5	540	540	370	7.1	0.17	7.2	37	0.89
	ATR-OW2(53)-G061616	6/16/2016	6.79	1.143	17.24	28.4	0.54	-163.5	NA	NA	320	NA	NA	NA	NA	NA
	ATR-OW2(53)-G092716	9/27/2016	8.14	0.776	16.34	19.7	0.14	-176.6	NA	NA	81	NA	NA	NA	NA	NA
	ATR-OW2(53)-G013117	1/31/2017	7.38	0.890	11.81	1.9	0.05	-166.8	460 X	460 X	110	9.3	0.02 U	1 U	15	0.36
	ATR-OW2(53)-G060617	6/6/2017	6.58	0.960	15.40	6.1	1.26	-121.0	480	480	5.8	16	0.02 U	21	20	0.16
	ATR-OW2(53)-G101117	10/11/2017	6.85	0.991	14.53	<1.0	1.01	-141.5	NA	NA	5.8	NA	NA	NA	NA	NA
	ATR-OW-2(53)-G022718	2/27/2018	6.86	0.634	14.64	0.0*	0.36	-163.2	NA	NA	18	NA	NA	NA	NA	NA
	ATR-OW2(53)-G072318	7/23/2018	7.09	0.510	16.65	2.4	0.06	-155.0	NA	NA	2.6	NA	NA	NA	NA	NA
ATR-OW3(35)-G121614	12/16/2014	7.50	0.652	13.53	7.5	4.24	-62.8	NA	NA	NA	NA	NA	NA	NA	NA	
ATR-OW3(35)-G100715	10/7/2015	7.12	0.953	14.73	0.0	0.25	-136.7	390	390	130	16	0.02 U	1.0 U	23	1.6	
ATR-OW3(35)-G022916	2/29/2016	7.95	0.733	12.05	13.9	4.22	-36.5	310	310	16	22	0.098	1 U	12	0.72	
ATR-OW3(35)-G061516	6/15/2016	7.35	0.628	17.09	45.3	0.81	-179.9	NA	NA	5.3	NA	NA	NA	NA	NA	
ATR-OW3(35)-G092716	9/27/2016	7.23	0.644	20.01	17.6	0.82	-161.1	NA	NA	3.9	NA	NA	NA	NA	NA	
ATR-OW3(35)-G013117	1/31/2017	7.49	0.742	11.61	0.0	0.06	-180.0	350 X	350 X	6.4	28	0.02 U	14	11	0.48	
ATR-OW3(35)-G060717	6/7/2017	7.16	0.671	13.29	0.0	0.95	-150.0	310	310	4.1	19	0.02 U	23	13	0.56	
ATR-OW3(35)-G101117	10/11/2017	7.06	0.870	14.31	0.0	0.16	-182.9	NA	NA	5.2	NA	NA	NA	NA	NA	
ATR-OW-3(35)-G022718	2/27/2018	7.10	0.799	13.49	0.0*	0.27	-196.2	NA	NA	3.8	NA	NA	NA	NA	NA	
ATR-OW3(35)-G072418	7/24/2018	7.17	0.641	14.77	34.1	0.08	-161.2	NA	NA	3.6	NA	NA	NA	NA	NA	

Table 2 (continued)
Summary of Measured Field Parameters, Geochemistry, and Metals
Performed on the Groundwater Samples Collected from Performance Monitoring Wells
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

Treatment Area	Sample ID	Sample Date	Field Measured Parameters							Geochemistry					Metals		
			pH	Conductivity	Temperature	Turbidity	DO	ORP	Alkalinity, Bicarbonate (as CaCO ₃)	Alkalinity, Total (as CaCO ₃)	TOC	Chloride	Nitrogen, Nitrate	Sulfate	Iron	Manganese	
			S.U.	mS/cm	°C	NTU	mg/L	mV	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Zone B	ATR-OW3(55)-G121614	12/16/2014	7.04	0.756	13.04	1.0	0.40	-26.0	NA	NA	NA	NA	NA	NA	NA	NA	
	ATR-OW3 (55)-G100715	10/7/2015	6.55	1.594	15.15	3.8	0.20	-155.2	660	660	1600	24	0.02 U	12	11	2	
	ATR-OW3 (55)-G100715 R	10/7/2015	NA	NA	NA	NA	NA	NA	690	690	1600	28	0.02 U	12	11	2.2	
	ATR-OW3(55)-G022916	2/29/2016	6.97	2.009	12.16	2.9	4.68	12.5	910	910	560	10	0.15	1.0 U	29	3.5	
	ATR-OW3(55)-G022916 R	2/29/2016	NA	NA	NA	NA	NA	NA	900	900	700	10	0.15	1.0 U	29	3.3	
	ATR-OW3(55)-G061516	6/15/2016	6.53	1.685	16.80	21.0	0.60	-113.0	NA	NA	410	NA	NA	NA	NA	NA	
	ATR-OW3(55)-G092716	9/27/2016	6.68	1.500	17.05	5.1	0.32	-120.2	NA	NA	310	NA	NA	NA	NA	NA	
	ATR-OW3(55)-G013117	1/31/2017	NM	NM	NM	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-OW3(55)-G060717	6/17/2017	6.69	1.632	13.70	28.9	1.41	-138.7	610	610	580	16	0.02 U	1.0 U	150	0.32	
	ATR-OW3(55)-G101017	10/10/2017	6.95	1.642	14.83	22.9	0.49	-218.7	NA	NA	350	NA	NA	NA	NA	NA	
ATR-OW-3(55)-G022718	2/27/2018	6.88	1.089	12.69	0.0*	0.37	-189.3	NA	NA	220	NA	NA	NA	NA	NA		
ATR-OW3(55)-G072418	7/24/2018	7.01	0.863	16.10	24.3	0.03	-162.2	NA	NA	120	NA	NA	NA	NA	NA		
Zone C	ATR-MW15-G041312	4/13/2012	7.18	0.388	13.46	2.3	0.23	-59.1	NA	NA	NA	NA	NA	NA	NA	NA	
	ATR-MW15-G041312R	4/13/2012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	ATR-MW15-G030613	3/6/2013	7.26	0.483	12.85	0.0	0.24	-35.3	NA	NA	NA	NA	NA	NA	NA	NA	
	ATR-MW15-G050213	5/2/2013	7.35	0.366	13.43	1.1	0.19	-44.6	NA	NA	NA	NA	NA	NA	NA	NA	
	ATR-MW15-G050213R	5/2/2013	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	ATR-MW15-6082213	7/22/2013	7.36	0.466	14.10	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA	
	ATR-MW15-G101315	10/13/2015	6.65	1.168	12.99	9.1	0.16	-92.1	440 x	440 x	540	16	0.02 U	5.0	1.5	1.1	
	ATR-MW15-G030116	3/1/2016	6.49	3.095	11.64	8.3	3.42	46.5	1100	1100	1000	11	0.086	1.0 U	64	3.5	
	ATR-MW15-G061516	6/15/2016	6.27	2.839	16.58	1.3	0.63	-91.4	NA	NA	1000	NA	NA	NA	NA	NA	
	ATR-MW15-G092716	9/27/2016	7.57	2.322	16.36	3.0	0.23	-123.5	NA	NA	760	NA	NA	NA	NA	NA	
	ATR-MW15-G013117	1/31/2017	6.98	1.742	11.00	9.7	0.36	-132.3	920 X	920 X	730	26	0.02 U	1.3	88	0.74	
	ATR-MW15-G060617	6/6/2017	6.68	1.840	14.80	26.2	0.44	-104.4	760	760	600	28	0.02 U	1.0 U	83	0.83	
	ATR-MW15-G101017	10/10/2017	6.60	2.571	16.52	1.4	0.09	-133.5	NA	NA	710	NA	NA	NA	NA	NA	
	ATR-MW-15-G022818	2/28/2018	6.55	3.752	11.01	19.8	0.94	-99.5	NA	NA	450	NA	NA	NA	NA	NA	
	ATR-MW15-G072318	7/23/2018	6.55	1.749	18.44	5.4	1.90	-92.7	NA	NA	280	NA	NA	NA	NA	NA	
	ATR-MW25(16.4)-G092712	9/27/2012	7.21	0.410	15.24	0.6	0.30	-71.6	230	240	3.2	20	0.02 U	11	0.97	0.34	
	ATR-MW25(16.4)	2/5/2013	7.51	0.412	11.36	0.0	0.78	-63.7	NA	NA	NA	NA	NA	NA	NA	NA	
	ATR-MW25(16.4)-G030613	3/6/2013	7.27	0.398	10.79	0.0	0.17	-12.3	NA	NA	NA	NA	NA	NA	NA	NA	
	ATR-MW25(16.4)-G050213	5/2/2013	7.33	0.383	11.64	0.0	0.18	-58.7	NA	NA	NA	NA	NA	NA	NA	NA	
	ATR-MW25(16.4)-G101315	10/13/2015	7.28	0.691	14.04	0.0	2.56	-65.0	250 x	250 x	3.4	28	0.02 U	19	0.4	0.33	
	ATR-MW25(16.4)-G030116	3/1/2016	6.82	0.798	10.45	20.8	5.47	-93.9	370	370	33	35	0.067	3.5	4.9	0.51	
	ATR-MW25(16.4)-G061516	6/15/2016	6.84	0.580	14.17	1.8	0.56	-114.1	NA	NA	56	NA	NA	NA	NA	NA	
	ATR-MW25(16.4)-G092716	9/27/2016	7.20	0.848	17.68	5.6	0.38	-142.9	NA	NA	49	NA	NA	NA	NA	NA	
	ATR-MW25(16.4)-G013117	1/31/2017	7.34	0.914	11.75	0.1	0.01	-150.4	440 X	440 X	39	27	0.02 U	5.9	8.5	0.45	
	ATR-MW25(16.4)-G060617	6/6/2017	7.01	0.891	14.44	0.0	0.40	-118.9	440	440	6.1	29	0.02 U	1.8	8.3	0.45	
	ATR-MW25(16.4)-G060617R	6/6/2017	NA	NA	NA	NA	NA	NA	430	430	6.3	29	0.02 U	1.8	8.0	0.43	
ATR-MW25(16.4)-G101017	10/10/2017	6.91	1.112	16.09	1.0	0.28	-136.1	NA	NA	7.1	NA	NA	NA	NA	NA		
ATR-MW-25(16.4)-G022718	2/27/2018	6.98	5.062	12.10	27.0	0.42	-116.6	NA	NA	5.3	NA	NA	NA	NA	NA		
ATR-MW25(16.4)-G072318	7/23/2018	6.82	0.937	15.35	5.5	0.32	-115.8	NA	NA	4.6	NA	NA	NA	NA	NA		

Table 2 (continued)
Summary of Measured Field Parameters, Geochemistry, and Metals
Performed on the Groundwater Samples Collected from Performance Monitoring Wells
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

Treatment Area	Sample ID	Sample Date	Field Measured Parameters						Geochemistry						Metals	
			pH	Conductivity	Temperature	Turbidity	DO	ORP	Alkalinity, Bicarbonate (as CaCO ₃)	Alkalinity, Total (as CaCO ₃)	TOC	Chloride	Nitrogen, Nitrate	Sulfate	Iron	Manganese
			S.U.	mS/cm	°C	NTU	mg/L	mV	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Zone C	ATR-MW25(32.6)-G041612	4/16/2012	7.36	0.349	13.46	7.9	0.20	-83.2	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW25(32.6)-G030613	3/6/2013	7.40	0.466	12.25	0.0	0.25	-45.2	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW25(32.6)-G050213	5/2/2013	7.44	0.335	12.88	1.0	0.19	-79.7	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW25(32.6)-G061914	6/19/2014	6.92	0.451	13.92	4.4	0.32	-77.7	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW25(32.6)-G101315	10/13/2015	7.43	0.561	13.20	0.0	0.16	-88.9	220 x	220 x	5.4	14	0.02 U	5.5	0.4	0.29
	ATR-MW25(32.6)-G030116	3/1/2016	6.55	2.101	12.01	14.5	0.55	-57.4	850	850	630	13	0.12	1 U	24	2.8
	ATR-MW25(32.6)-G061516	6/15/2016	6.49	1.340	14.69	6.3	0.51	-80.5	NA	NA	320	NA	NA	NA	NA	NA
	ATR-MW25(32.6)-G092716	9/27/2016	6.73	0.911	15.32	3.0	0.25	-99.8	NA	NA	150	NA	NA	NA	NA	NA
	ATR-MW25(32.6)-G013117	1/31/2017	7.03	0.840	12.02	0.4	0.04	-112.2	410 X	410 X	76	17	0.02 U	1 U	13	0.54
	ATR-MW25(32.6)-G060617	6/6/2017	6.72	1.254	14.45	2.4	0.38	-90.0	610	610	91	21	0.02 U	1.0 U	19	0.39
	ATR-MW25(32.6)-G101017	10/10/2017	6.69	1.280	15.91	0.2	0.20	-99.8	NA	NA	10	NA	NA	NA	NA	NA
	ATR-MW-25(32.6)-G022718	2/27/2018	6.76	5.135	13.37	27.3	0.49	-96.7	NA	NA	5.6	NA	NA	NA	NA	NA
	ATR-MW25(32.6)-G072318	7/23/2018	6.76	0.796	15.43	9.5	0.19	-109.8	NA	NA	4.7	NA	NA	NA	NA	NA
	MTR-MW25(45.2)-6082213	7/22/2013	7.04	0.463	14.10	NM	NM	NM	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW25(45.2)-G101315	10/13/2015	7.38	0.562	13.09	0.0	0.26	-37.5	230 x	230 x	2.1	8.9	0.02 U	13	0.16	0.27
	ATR-MW25(45.2)-G030116	3/1/2016	6.68	1.519	10.56	22.5	0.28	-68.5	620	620	430	7.6	0.12	1 U	20	1.5
	ATR-MW25(45.2)-G061516	6/15/2016	6.18	2.025	17.09	1.3	0.55	-75.9	NA	NA	710	NA	NA	NA	NA	NA
	ATR-MW25(45.2)-G092716	9/27/2016	7.03	2.479	15.70	19.1	0.17	-91.0	NA	NA	920	NA	NA	NA	NA	NA
	ATR-MW25(45.2)-G013117	1/31/2017	6.76	2.098	11.91	2.0	0.05	-108.1	960 X	960 X	740	14	0.02 U	1.7	62	0.71
	ATR-MW25(45.2)-G060617	6/6/2017	6.71	1.605	15.18	0.0	0.47	-103.2	680	680	460	15	0.02 U	1.0 U	49	0.61
	ATR-MW25(45.2)-G101017	10/10/2017	6.63	2.364	16.23	0.9	0.15	-115.0	NA	NA	520	NA	NA	NA	NA	NA
	ATR-MW-25(45.2)-G022718	2/27/2018	6.67	9.300	13.34	27.5	0.83	-111.8	NA	NA	250	NA	NA	NA	NA	NA
	ATR-MW25(45.2)-G072418	7/24/2018	6.56	1.296	15.56	9.8	0.12	-108.7	NA	NA	74	NA	NA	NA	NA	NA
	ATR-OW4(35)-G121614	12/16/2014	7.60	0.461	12.99	-0.1	0.42	-123.8	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-OW4(35)-G101315	10/13/2015	6.11	2.210	13.46	54.6	0.09	-109.9	670 x	670 x	1900	14	0.057	5.3	18	2.1
	ATR-OW4(35)-G030116	3/1/2016	6.36	2.405	9.38	18.4	3.52	41.6	840	840	900	9	0.14	1 U	31	3.6
	ATR-OW4(35)-G061516	6/15/2016	6.40	2.433	23.40	27.7	0.61	-101.7	NA	NA	730	NA	NA	NA	NA	NA
	ATR-OW4(35)-G092716	9/27/2016	6.72	1.835	16.08	8.8	0.55	-115.2	NA	NA	430	NA	NA	NA	NA	NA
	ATR-OW4(35)-G013117	1/31/2017	5.92	3.339	10.80	38.2	0.54	-25.1	1,400 X	1,400 X	2,100	1 U	0.02 U	2.1	210	3.3
	ATR-OW4(35)-G060717	6/7/2017	6.70	2.438	13.93	4.1	0.38	-144.0	1,200	1,200	530	14	0.02 U	1.0 U	97	1.8
	ATR-OW4(35)-G101017	10/10/2017	6.61	2.639	16.92	1.7	0.11	-145.9	NA	NA	300	NA	NA	NA	NA	NA
	ATR-OW-4(35)-G022818	2/28/2018	6.63	4.529	13.80	19.5	0.43	-132.6	NA	NA	82	NA	NA	NA	NA	NA
	ATR-OW4(35)-G072318	7/23/2018	6.52	1.817	15.59	9.7	0.10	-129.6	NA	NA	50	NA	NA	NA	NA	NA
ATR-OW4(54)-G121614	12/16/2014	7.57	0.558	12.87	0.5	0.43	-142.8	NA	NA	NA	NA	NA	NA	NA	NA	
ATR-OW4(54)-G101315	10/13/2015	7.45	0.596	13.29	0.0	0.17	-140.2	240 x	240 x	2.1	6.2	0.02 U	17	0.92	0.044	
ATR-OW4(54)-G030116	3/1/2016	7.82	0.569	9.93	9.5	3.58	-45.2	250	250	8.3	5.5	0.02 U	13	1.5	0.072	
ATR-OW4(54)-G061516	6/15/2016	7.35	0.509	24.52	109.9	1.32	-134.3	NA	NA	4.2	NA	NA	NA	NA	NA	
ATR-OW4(54)-G092716	9/27/2016	7.30	0.583	14.87	2.0	0.32	-197.7	NA	NA	39	NA	NA	NA	NA	NA	
ATR-OW4(54)-G013117	1/31/2017	7.28	0.771	11.09	0.6	0.34	-124.5	450 X	450 X	320	3.3	0.02 U	1 U	3.6	0.13	
ATR-OW4(54)-G060617	6/6/2017	6.90	1.378	14.46	3.6	0.37	-130.1	710	710	450	4.5	0.02 U	1.0 U	8.8	0.17	
ATR-OW4(54)-G101017	10/10/2017	7.02	1.774	16.95	1.6	0.09	-149.8	NA	NA	320	NA	NA	NA	NA	NA	
ATR-OW-4(54)-G022818	2/28/2018	7.00	3.520	13.13	20.0	0.52	-118.0	NA	NA	200	NA	NA	NA	NA	NA	
ATR-OW4(54)-G072418	7/24/2018	6.84	1.278	14.52	2.9	0.01	-130.2	NA	NA	110	NA	NA	NA	NA	NA	

Table 2 (continued)
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Performed on the Groundwater Samples Collected from Performance Monitoring Wells
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

Treatment Area	Sample ID	Sample Date	Field Measured Parameters						Geochemistry						Metals	
			pH	Conductivity	Temperature	Turbidity	DO	ORP	Alkalinity, Bicarbonate (as CaCO ₃)	Alkalinity, Total (as CaCO ₃)	TOC	Chloride	Nitrogen, Nitrate	Sulfate	Iron	Manganese
			S.U.	mS/cm	°C	NTU	mg/L	mV	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	ATR-MW16-G092612	9/26/2012	7.23	0.383	13.31	0.0	0.24	-21.7	230	230	1.7	11	0.02 U	12	0.15	0.080
	ATR-MW16-G030613	3/6/2013	6.76	0.870	13.16	0.0	0.11	-113.3	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW16-G030613R	3/6/2013	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW16-G040313	4/3/2013	6.12	0.992	13.09	0.0	0.20	-126.5	510	510	43	14	0.02 U	9.5	27	1.2
	ATR-MW16-G050213	5/2/2013	6.90	0.927	13.24	1.0	0.18	-124.2	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW16-G100715	10/7/2015	7.10	0.716	13.29	0.0	0.28	-98.1	320	320	2.8	12	0.02 U	8.8	3.5	0.13
	ATR-MW16-G030116	3/1/2016	7.75	0.722	11.12	1.7	3.62	0.0	320	320	3.4	13	0.020 U	4.1	2.5	0.14
	ATR-MW16-G061416	6/14/2016	6.85	1.023	15.26	15.2	0.55	-123.5	NA	NA	220	NA	NA	NA	NA	NA
	ATR-MW16-G092616	9/26/2016	7.37	1.653	14.98	1.0	0.15	-171.3	NA	NA	190	NA	NA	NA	NA	NA
	ATR-MW16-G013017	1/30/2017	7.76	1.529	11.04	5.9	0.43	-169.3	840 X	840 X	110	16	0.02 U	11	13	0.26
	ATR-MW16-G060617	6/6/2017	6.51	1.568	14.31	<1.0	0.59	-106.8	980	980	140	22	0.02 U	1.0 U	22	0.25
	ATR-MW16-G101017	10/10/2017	6.92	2.563	14.68	2.1	0.60	-171.4	NA	NA	230	NA	NA	NA	NA	NA
	ATR-MW-16-G022718	2/27/2018	6.94	10.736	12.74	27.4	0.55	-136.1	NA	NA	200	NA	NA	NA	NA	NA
	ATR-MW16-G071918	7/19/2018	7.00	1.649	14.83	4.2	0.00	-125.6	NA	NA	13	NA	NA	NA	NA	NA
	ATR-MW17-G092612	9/26/2012	7.00	0.663	12.60	0.0	0.23	1.2	380	380	1.5	37	0.79	25	0.08 U	0.31
	ATR-MW17	12/18/2012	7.12	0.563	11.94	NM	0.24	74.3	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW17-G030613	3/6/2013	7.11	0.552	11.36	1.8	0.14	-69.8	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW17-G030613R	3/6/2013	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW17-G040313	4/3/2013	7.10	0.572	12.12	0.3	0.26	4.7	360	360	3.4	26	0.44	22	0.08 U	0.32
	ATR-MW17-G050213	5/2/2013	7.16	0.563	12.67	2.9	0.19	-22.1	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW17-G100715	10/7/2015	7.11	0.846	13.20	51.2	0.31	213.1	360	360	1.7	24	1.2	23	1.8	0.62
	ATR-MW17-G030116	3/1/2016	7.74	0.787	9.19	16.4	3.81	59.7	330	330	1.6	20	0.9	20	0.3	0.53
	ATR-MW17-G061416	6/14/2016	6.71	0.734	13.17	9.7	0.60	226.9	NA	NA	6.2	NA	NA	NA	NA	NA
	ATR-MW17-G092616	9/26/2016	7.00	0.910	14.64	8.7	0.24	182.1	NA	NA	2.2	NA	NA	NA	NA	NA
	ATR-MW17-G013017	1/30/2017	7.24	0.677	8.64	0.0	0.06	-1.1	350 X	350 X	15	23	0.46	19	0.49	1.7
	ATR-MW17-G060617	6/6/2017	5.56	0.734	13.63	<1.0	0.66	39.0	360	360	2.8	21	0.85	17	0.56	0.74
	ATR-MW17-G101017	10/10/2017	6.95	0.975	14.03	<1.0	0.80	-81.4	NA	NA	3.4	NA	NA	NA	NA	NA
	ATR-MW-17-G022718	2/27/2018	7.17	4.139	10.52	27.0	0.70	-133.1	NA	NA	16	NA	NA	NA	NA	NA
	ATR-MW17-G071918	7/19/2018	6.89	1.022	17.69	2.1	0.10	-112.1	NA	NA	4.0	NA	NA	NA	NA	NA
	ATR-MW17-G071918R	7/19/2018	NA	NA	NA	NA	NA	NA	NA	NA	4.0	NA	NA	NA	NA	NA
	ATR-MW26(17.5)-G092712	9/27/2012	7.18	0.427	14.78	0.0	0.28	-32.4	250	250	2.3	19	0.02 U	13	2.9	0.24
	ATR-MW26(17.5)-G010813	1/8/2013	7.00	0.599	12.46	1.5	0.38	-34.8	290	290	7.6	16	0.02 U	3.6	NA	NA
	ATR-MW26(17.5)	2/5/2013	7.55	0.419	12.55	0.0	0.90	-118.0	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW26(17.5)-G030613	3/6/2013	7.33	0.407	12.42	0.0	0.18	-106.7	260	260	2.8	18	0.02 U	3.2	2.3	0.42
	ATR-MW26(17.5)-G040313	4/3/2013	6.07	0.406	12.39	0.0	0.16	-12.8	260	260	2.7	17	0.02 U	3.8	2.2	0.42
	ATR-MW26(17.5)-G050313	5/3/2013	7.28	0.408	12.54	4.7	0.22	-108.3	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW26 (17.5)-G100715	10/7/2015	6.98	0.694	14.18	3.1	0.32	-115.3	290	290	47	15	0.15	1.4	14	0.99
	ATR-MW26(17.5)-G030116	3/1/2016	7.37	0.698	12.04	29.8	0.88	-144.6	350	350	22	19	0.1	1 U	14	1.0
	ATR-MW26(17.5)-G061416	6/14/2016	6.97	0.816	13.03	9.5	0.90	-133.4	NA	NA	46	NA	NA	NA	NA	NA
	ATR-MW26(17.5)-G092616	9/26/2016	7.39	0.902	15.58	0.0	0.28	-179.5	NA	NA	13	NA	NA	NA	NA	NA
	ATR-MW26(17.5)-G013017	1/30/2017	7.35	0.722	12.03	0.0	0.03	-147.0	410 X	410 X	5.4	20	0.02 U	1 U	11	0.39
	ATR-MW26(17.5)-G060617	6/6/2017	6.24	0.875	14.17	<1.0	0.40	-135.8	450	450	4.6	19	0.02 U	1.0 U	12	0.46
	ATR-MW26(17.5)-G100917	10/9/2017	7.13	1.126	15.24	1.8	0.62	-204.8	NA	NA	5.6	NA	NA	NA	NA	NA
	ATR-MW26(17.5)-G022618	2/26/2018	6.99	0.669	12.24	3.7	0.66	-113.7	NA	NA	4.1	NA	NA	NA	NA	NA
	ATR-MW26(17.5)-G072018	7/20/2018	6.83	1.023	14.79	8.0	0.95	-108.6	NA	NA	3.6	NA	NA	NA	NA	NA

Table 2 (continued)
Summary of Measured Field Parameters, Geochemistry, and Metals
Performed on the Groundwater Samples Collected from Performance Monitoring Wells
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

Treatment Area	Sample ID	Sample Date	Field Measured Parameters						Geochemistry						Metals	
			pH	Conductivity	Temperature	Turbidity	DO	ORP	Alkalinity, Bicarbonate (as CaCO ₃)	Alkalinity, Total (as CaCO ₃)	TOC	Chloride	Nitrogen, Nitrate	Sulfate	Iron	Manganese
			S.U.	mS/cm	°C	NTU	mg/L	mV	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Zone D	ATR-MW26(28.8)-G092712	9/27/2012	7.23	0.416	13.02	0.4	0.20	204.5	250	250	1.1	11	0.02 U	21	0.15	0.093
	ATR-MW26(28.8)-G092712R	9/27/2012	NA	NA	NA	NA	NA	NA	240	240	1.1	11	0.02 U	21	0.08 U	0.091
	ATR-MW26(28.8)	12/18/2012	6.70	0.900	13.40	NM	0.19	-96.2	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW26(28.8)-G010813	1/8/2013	6.39	1.037	12.33	5.0	0.29	-71.4	520	520	240	15	0.02 U	1 U	NA	NA
	ATR-MW26(28.8)	2/5/2013	6.88	0.737	13.15	NM	0.25	-94.9	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW26(28.8)-G030613	3/6/2013	6.79	0.725	12.99	0.0	0.14	-82.1	420	420	150	18	0.02 U	5.0	5.4	2.0
	ATR-MW26(28.8)-G040313	4/3/2013	6.77	0.741	13.05	0.0	0.13	-77.2	410	410	140	20	0.02 U	5.1	6.7	1.6
	ATR-MW26(28.8)-G050313	5/3/2013	6.98	0.581	13.19	0.0	0.22	-84.5	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW26 (28.8)-G100715	10/7/2015	7.20	0.653	13.93	0.0	0.27	-114.3	300	300	3.6	9.3	0.02 U	2.2	4.2	0.17
	ATR-MW26(28.8)-G030116	3/1/2016	7.40	0.791	11.31	14.2	0.29	-129.0	450	450	9.3	11	0.1	1 U	13	0.25
	ATR-MW26(28.8)-G061416	6/14/2016	7.29	1.113	15.09	10.9	0.57	-103.7	NA	NA	7.9	NA	NA	NA	NA	NA
	ATR-MW26(28.8)-G092616	9/26/2016	6.79	1.257	14.78	7.5	0.30	-128.4	NA	NA	3.5	NA	NA	NA	NA	NA
	ATR-MW26(28.8)-G013017	1/30/2017	6.74	1.087	10.85	0.0	0.03	-103.5	580 X	580 X	110	14	0.02 U	1 U	43	0.34
	ATR-MW26(28.8)-G060617	6/6/2017	5.93	1.153	14.43	<1.0	0.42	-75.3	510	510	55	17	0.02 U	1.0 U	38	0.34
	ATR-MW26(28.8)-G100917	10/9/2017	6.78	1.640	15.27	0.9	0.87	-166.5	NA	NA	13	NA	NA	NA	NA	NA
	ATR-MW-26(28.8)-G022618	2/26/2018	6.76	0.875	12.84	64.5	0.55	-86.9	NA	NA	7.1	NA	NA	NA	NA	NA
	ATR-MW26(28.8)-G072018	7/20/2018	6.78	1.514	16.19	26.6	0.33	-99.7	NA	NA	3.9	NA	NA	NA	NA	NA
	ATR-MW26(58.2)-G041612	4/16/2012	7.25	0.418	12.28	0.0	0.26	-232.8	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW26(58.2)-G060413	6/4/2013	6.93	0.417	12.97	NM	0.55	105.4	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW26(58.8)-G100715	10/7/2015	6.84	0.496	15.39	0.0	0.40	-45.6	220	220	1.4	6.9	0.02 U	15	0.083	0.059
	ATR-MW26(58.8)-G030116	3/1/2016	7.81	0.615	11.69	8.1	0.06	-191.2	310	310	57	4.3	0.048	1.9	5.5	0.29
	ATR-MW26(58.8)-G061416	6/14/2016	7.52	0.937	14.11	4.8	0.57	-119.4	NA	NA	130	NA	NA	NA	NA	NA
	ATR-MW26(58.8)-G092616	9/26/2016	7.30	1.055	14.46	0.0	0.32	-188.4	NA	NA	98	NA	NA	NA	NA	NA
	ATR-MW26(58.8)-G013017	1/30/2017	7.33	0.803	11.24	0.0	0.04	-156.6	420 X	420 X	94	5.8	0.02 U	1 U	18	0.24
	ATR-MW26(58.8)-G013017R	1/30/2017	NA	NA	NA	NA	NA	NA	420 X	420 X	95	5.7	0.02 U	1 U	18	0.24
	ATR-MW26(58.2)-G060617	6/6/2017	6.54	0.907	15.45	<1.0	0.49	-154.9	400	400	95	7.5	0.02 U	1.0 U	24	0.46
	ATR-MW26(58.2)-G101017	10/10/2017	7.21	0.863	14.14	2.4	0.59	-193.8	NA	NA	14	NA	NA	NA	NA	NA
	ATR-MW-26(58.8)-G022618	2/26/2018	7.15	0.454	12.96	84.4	0.68	-128.7	NA	NA	2.1	NA	NA	NA	NA	NA
	ATR-MW26(58.2)-G072018	7/20/2018	7.20	0.587	16.62	9.8	0.37	-143.5	NA	NA	1.4	NA	NA	NA	NA	NA
	ATR-ZVI-2(17.5)-G121812	12/18/2012	7.12	0.592	13.04	4.9	0.31	19.2	330	330	33	19	0.02 U	5.7	3.0	1.2
	ATR-ZVI-2(17.5)-G010813	1/8/2013	7.14	0.440	12.96	4.8	0.24	-116.7	300	300	12	18	0.02 U	5.0	4.2	1.0
	ATR-ZVI-2(17.5)-G030613	3/6/2013	7.35	0.404	11.91	4.1	0.21	-117.3	250	250	2.2	19	0.02 U	4.8	9.0	0.60
	ATR-ZVI-2(17.5)-G040313	4/3/2013	7.28	0.422	11.85	3.4	0.21	-128.9	260	260	2.1	18	0.02 U	7.3	4.0	0.56
	ATR-ZVI-2(17.5)-G050313	5/3/2013	7.34	0.428	11.95	3.6	0.19	-134.2	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-ZVI2 (17.5)-G100715	10/7/2015	7.38	0.661	14.38	3.6	0.62	-136.6	280	280	25	16	0.02 U	1.0 U	12	0.79
	ATR-ZVI2(17.5)-G030216	3/2/2016	6.61	0.642	11.03	49.0	0.57	-135.9	290	290	3.1	19	0.081	1 U	10	0.45
	ATR-ZVI2(17.5)-G061416	6/14/2016	7.65	0.783	14.34	31.1	0.48	-169.2	NA	NA	17	NA	NA	NA	NA	NA
	ATR-ZVI2(17.5)-G092616	9/26/2016	7.41	0.841	15.98	3.5	0.31	-189.6	NA	NA	8.2	NA	NA	NA	NA	NA
	ATR-ZVI2(17.5)-G013117	1/31/2017	7.53	0.627	9.73	9.6	0.26	-175.9	290 X	290 X	17	20	0.02 U	1 U	13	0.34
	ATR-ZVI2(17.5)-G060617	6/6/2017	7.25	0.810	13.31	8.0	0.98	-179.1	410	410	3.9	19	0.02 U	1.0 U	16	0.34
ATR-MWZV12(17.5)-G100917	10/9/2017	7.31	1.086	15.43	85.5	0.41	-226.1	NA	NA	5.5	NA	NA	NA	NA	NA	
ATR-ZVI-2(17.5)-G022618	2/26/2018	7.09	0.591	11.53	2.8	0.28	-147.8	NA	NA	4.0	NA	NA	NA	NA	NA	
ATR-ZVI-2(17.5)-G071918	7/19/2018	6.83	1.258	16.15	39.6	0.37	-137.4	NA	NA	3.3	NA	NA	NA	NA	NA	

Table 2 (continued)
Summary of Measured Field Parameters, Geochemistry, and Metals
Performed on the Groundwater Samples Collected from Performance Monitoring Wells
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

Treatment Area	Sample ID	Sample Date	Field Measured Parameters						Geochemistry						Metals	
			pH	Conductivity	Temperature	Turbidity	DO	ORP	Alkalinity, Bicarbonate (as CaCO ₃)	Alkalinity, Total (as CaCO ₃)	TOC	Chloride	Nitrogen, Nitrate	Sulfate	Iron	Manganese
			S.U.	mS/cm	°C	NTU	mg/L	mV	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Zone D	ATR-ZVI-2(32.5)-G121812	12/18/2012	6.80	0.887	13.13	3.8	0.29	26.1	540	540	270	12	0.02 U	3.6	4.7	0.66
	ATR-ZVI-2(32.5)-G010813	1/8/2013	6.88	0.535	13.43	2.7	0.20	-75.9	350	350	87	11	0.02 U	1 U	2.5	0.42
	ATR-ZVI-2(32.5)-G030613	3/6/2013	7.18	0.426	12.91	4.3	0.13	-109.5	270	280	26	11	0.02 U	2.0	2.2	0.33
	ATR-ZVI-2(32.5)-G030613R	3/6/2013	NA	NA	NA	NA	NA	NA	280	280	26	11	0.02 U	2.0	2.2	0.32
	ATR-ZVI-2(32.5)-G040313	4/3/2013	6.90	0.427	13.11	0.4	0.21	-93.8	270	270	20	11	0.02 U	2.9	2.1	0.29
	ATR-ZVI-2(32.5)-G040313R	4/3/2013	NA	NA	NA	NA	NA	NA	270	270	23	11	0.02 U	3.0	1.9	0.28
	ATR-ZVI-2(32.5)-G050313	5/3/2013	7.23	0.508	13.10	0.5	0.19	-125.6	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-ZVI2(32.5)-G100715	10/7/2015	7.26	0.547	13.90	4.2	0.24	-83.8	250	250	5.2	10	0.02 U	9.9	1.7	0.15
	ATR-ZVI2(32.5)-G030116	3/1/2016	7.54	0.592	11.37	9.6	0.25	-122.3	320	320	7.5	11	0.026	5.1	2.5	0.15
	ATR-ZVI2(32.5)-G061416	6/14/2016	7.58	0.208	14.48	5.5	0.55	-133.7	NA	NA	9.7	NA	NA	NA	NA	NA
	ATR-ZVI2(32.5)-G092616	9/26/2016	7.30	0.814	14.08	0.0	0.33	-151.2	NA	NA	18	NA	NA	NA	NA	NA
	ATR-ZVI2(32.5)-G071918	1/31/2017	7.15	1.098	11.52	0.0	0.38	-137.7	530 X	530 X	120	12	0.02 U	1 U	8.0	0.14
	ATR-ZVI2(32.5)-G060617	6/6/2017	6.73	1.214	14.04	6.0	1.87	-109.0	650	650	53	15	0.02 U	1.5	19	0.16
	ATR-MWZV12(32.5)-G100917	10/9/2017	6.96	1.544	15.17	5.4	0.86	-167.7	NA	NA	12	NA	NA	NA	NA	NA
	ATR-ZVI-2(32.5)-G022618	2/26/2018	6.70	0.943	13.05	4.1	0.42	-82.9	NA	NA	5.1	NA	NA	NA	NA	NA
	ATR-ZVI-2(32.5)-G071918	7/19/2018	6.68	1.322	15.36	5.7	1.09	-97.9	NA	NA	3.5	NA	NA	NA	NA	NA
	ATR-OW5(16)-G121714	12/17/2014	7.31	0.629	12.96	6.4	0.51	53.3	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-OW5 (16)-G100715	10/7/2015	6.96	1.215	16.34	9.3	3.02	-80.3	510	510	140	20	0.02 U	1.0 U	9.9	1.1
	ATR-OW5(16)-G030116	3/1/2016	7.86	0.830	9.19	8.0	4.98	26.4	380	380	18	19	0.066	1 U	6.8	0.47
	ATR-OW5(16)-G061416	6/14/2016	7.09	0.679	14.47	45.6	1.55	-128.3	NA	NA	12	NA	NA	NA	NA	NA
	ATR-OW5(16)-G092716	9/27/2016	7.79	0.643	16.18	9.3	0.31	-143.6	NA	NA	11	NA	NA	NA	NA	NA
	ATR-OW5(16)-G013017	1/30/2017	7.19	0.694	10.74	7.2	1.66	-139.2	340 X	340 X	18	25	0.02 U	2.5	7.4	0.38
	ATR-OW5(16)-G060617	6/6/2017	6.99	0.669	14.36	4.1	0.76	-131.7	330	330	4.5	24	0.02 U	6.2	5.2	0.30
	ATR-MWOW05(16)-G101017	10/10/2017	7.13	0.905	16.69	1.7	0.63	-171.4	NA	NA	5.6	NA	NA	NA	NA	NA
	ATR-OW-5(16)-G022718	2/27/2018	7.23	4.340	11.89	26.9	0.35	-128.9	NA	NA	4.4	NA	NA	NA	NA	NA
	ATR-OW5(16)-G072318	7/23/2018	6.97	0.739	17.14	7.4	0.00	-158.5	NA	NA	3.8	NA	NA	NA	NA	NA
	ATR-OW5(35)-G121714	12/17/2014	7.51	0.534	12.78	1.1	0.44	-76.0	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-OW5 (35)-G100715	10/7/2015	7.18	1.160	13.72	0.0	0.17	-125.0	520	520	190	9.5	0.02 U	1.0 U	7	0.45
	ATR-OW5(35)-G030116	3/1/2016	7.57	1.109	10.99	0.0	3.69	-2.3	450	450	180	8.4	0.098	1 U	12	0.58
	ATR-OW5(35)-G061416	6/14/2016	7.01	1.026	15.24	5.2	0.56	-149.2	NA	NA	110	NA	NA	NA	NA	NA
	ATR-OW5(35)-G092616	9/26/2016	7.35	1.481	16.35	8.2	0.16	-172.2	NA	NA	130	NA	NA	NA	NA	NA
	ATR-OW5(35)-G013017	1/30/2017	7.00	1.216	11.41	2.1	0.24	-159.6	630 X	630 X	140	12	0.02 U	1 U	43	1.2
	ATR-OW5(35)-G060617	6/6/2017	6.70	0.794	14.39	2.3	1.43	-121.0	390	390	29	8.0	0.02 U	1.5	27	0.79
	ATR-MWOW2(35)-G101017	10/10/2017	6.86	0.986	15.76	1.4	0.61	-159.2	NA	NA	6.7	NA	NA	NA	NA	NA
	ATR-OW-5(35)-G022718	2/27/2018	6.99	5.320	13.48	27.3	1.06	-115.5	NA	NA	5.1	NA	NA	NA	NA	NA
	ATR-OW5(35)-G072318	7/23/2018	6.65	0.909	16.66	4.2	1.43	-99.5	NA	NA	4.4	NA	NA	NA	NA	NA
	ATR-OW5(44)-G121714	12/17/2014	7.67	0.495	12.53	1.0	0.43	-120.3	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-OW5 (54)-G100715	10/7/2015	7.37	0.540	13.70	0.0	0.11	-116.6	230	230	2.3	11	0.02 U	10	1.4	0.16
	ATR-OW5(54)-G030116	3/1/2016	7.09	2.142	6.05	38.8	4.17	-17.7	880	880	560	11	2.3	1 U	17	0.85
	ATR-OW5(45)-G061416	6/14/2016	6.61	1.280	16.08	26.5	0.60	-106.3	NA	NA	280	NA	NA	NA	NA	NA
ATR-OW5(45)-G092616	9/26/2016	7.03	1.528	16.00	8.1	0.18	-158.1	NA	NA	220	NA	NA	NA	NA	NA	
ATR-OW5(45)-G013017	1/30/2017	6.74	1.959	10.55	1.8	0.55	-126.3	970 X	970 X	540	14	0.02 U	1 U	46	1.6	
ATR-OW5(44)-G060617	6/6/2017	6.72	2.047	17.02	8.1	1.20	-133.6	1,100	1,100	280	16	0.02 U	1.0 U	99	2.0	
ATR-MWOW2(44)-G101017	10/10/2017	6.50	2.377	16.13	5.5	0.53	-140.0	NA	NA	200	NA	NA	NA	NA	NA	
ATR-OW-5(44)-G022718	2/27/2018	6.62	8.826	13.80	26.8	0.58	-99.8	NA	NA	44	NA	NA	NA	NA	NA	
ATR-OW5(44)-G072318	7/23/2018	6.43	1.472	15.22	9.1	0.94	-81.3	NA	NA	17	NA	NA	NA	NA	NA	

Table 2 (continued)
Summary of Measured Field Parameters, Geochemistry, and Metals
Performed on the Groundwater Samples Collected from Performance Monitoring Wells
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

Notes:

Blue text is performance monitoring data

NA - Not Analyzed/Not Applicable

NM - Not Measured

J - Estimated concentration, analyte detected below quantitation limit

U - Analyzed but not detected above the MDL

mS/cm - milli Siemen/centimeter

µg/L - micro grams per liter

x - Identified in Blank

TOC - Total Organic Carbon

NTU - Nephelometric Turbidity Units

mg/L - milligram per liter

mV - millivolt

°C - degrees Celcius

S.U. - Standard Unit

ORP - Oxidation-Reduction Potential

* - Instrument reading suspect

Prepared by: RLB

Checked by: PJS

Table 3
Summary of Target VOC Concentrations and Contaminant Mass
Performed on the Groundwater Samples Collected from Performance Monitoring Wells
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

Treatment Area	Sample ID	Sample Date	VOCs												
			1,1-DCE (96.94)		cis-1,2-DCE (96.94)		trans-1,2-DCE (96.94)		PCE (165.83)		TCE (131.39)		Vinyl Chloride (62.5)		Total Contaminant Mass
			µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	m/L*
Source - Behind	ATR-MW81(27)-G110512	11/5/12	270	2.8	40,000	413	280	2.9	100 U		13,000	99	3,700	59	576
	ATR-MW81(27)-G010713	1/7/13	250	2.6	50,000	516	320	3.3	100 U		8,800	67	7,400	118	707
	ATR-MW81(27)-G020513	2/5/13	410	4.2	47,000	485	370	3.8	200 U		10,000	76	7,300	117	686
	ATR-MW81(27)-G030613	3/6/13	420	4.3	53,000	547	420	4.3	100 U		11,000	84	6,600	106	745
	ATR-MW81(27)-G050313	5/3/13	440	4.5	46,000	475	370	3.8	200 U		11,000	84	6,900	110	677
	ATR-MW81(27)-G082715	8/27/15	290	3.0	53,000	547	260	2.7	200 U		4,700	36	7,500	120	708
	ATR-MW81(27)-G022316	2/23/16	250 U		74,000	763	360	3.7	250 U		250 U		21,000	336	1,103
	ATR-MW81(27)-G061616	6/16/16	100 U		57,000	588	320	3.3	100 U		100 U		43,000 J	688	1,279
	ATR-MW81(27)-G092916	9/29/16	50 U		13,000	134	81	0.84	50 U		50 U		20,000	320	455
	ATR-MW81(27)-G121316	12/13/16	50 U		9,700 J	100	68	0.70	50 U		50 U		17,000 J	272	373
	ATR-MW81(27)-G060717	6/7/17	100 U		7,000	72	100 U		100 U		100 U		24,000	384	456
	ATR-MW81(27)-G101117	10/11/17	25 U		5,200	54	25 U		25 U		25 U		10,000	160	214
	ATR-MW-81(27)-G022818	2/28/18	20 U		4,000	41	33	0.34	20 U		20 U		8,300 J	133	174
	ATR-MW-81(27)-G022818R	2/28/18	25 U		4,000	41	32	0.33	25 U		25 U		8,000 J	128	170
	ATR-MW81(27)-G072418	7/24/18	1 U		460 J	4.7	3.9	0.04	1 U		1 U		410	6.6	11
Source - Behind	ATR-MW59(29)-G092712	9/27/12	220	2.3	42,000	433	290	3.0	100 U		50 U		10,000	160	599
	ATR-MW59(29)-G010713	1/7/13	150	1.5	31,000	320	190	2.0	100 U		50 U		13,000	208	531
	ATR-MW59(29)-G020413	2/4/13	160	1.7	29,000	299	190	2.0	10 U		5 U		18,000	288	591
	ATR-MW59(29)-G030613	3/6/13	69	0.71	18,000	186	140	1.4	40 U		20 U		23,000	368	556
	ATR-MW59(29)-G050313	5/3/13	100 U		26,000	268	100 U		200 U		100 U		21,000	336	604
	ATR-MW59(29)-G082715	8/27/15	130	1.3	30,000	309	130	1.3	100 U		100 U		23,000	368	680
	ATR-MW59(29)-G022316	2/23/16	25 U		110	1.1	25 U		25 U		25 U		9,200	147	148
	ATR-MW59(29)-G061716	6/17/16	25 U		25 U		25 U		25 U		25 U		11,000	176	176
	ATR-MW59(29)-G061716R	6/17/16	25 U		25 U		25 U		25 U		25 U		11,000	176	176
	ATR-MW59(29)-G093016	9/30/16	1 U		11	0.11	1 U		1 U		1 U		340	5.4	5.6
	ATR-MW59(29)-G093016R	9/30/16	1 U		13	0.13	1 U		1 U		1 U		320	5.1	5.3
	ATR-MW59(29)-G121316	12/13/16	1 U		6.3	0.06	1 U		1 U		1 U		15	0.24	0.30
	ATR-MW59(29)-G121316R	12/13/16	1 U		5.7	0.06	1 U		1 U		1 U		14	0.22	0.28
	ATR-MW59(29)-G060717	6/7/17	1 U		2.6	0.03	1 U		1 U		1 U		5.2 J	0.08	0.11
	ATR-MW59(29)-G060717R	6/7/17	1 U		3.2	0.03	1 U		1 U		1 U		5.6	0.09	0.12
	ATR-MW59(29)-G101117	10/11/17	1 U		6.6	0.07	1 U		1 U		1 U		5.3	0.08	0.15
	ATR-MW59(29)-G101117R	10/11/17	1 U		5.6	0.06	1 U		1 U		1 U		4.8	0.08	0.13
	ATR-MW-59(29)-G022818	2/28/18	1 U		1.1	0.01	1 U		1 U		1 U		1 U		0.01
ATR-MW59(29)-G072418	7/24/18	1 U		1.7	0.02	1 U		1 U		1 U		5.7	0.09	0.11	
ATR-MW59(29)-G072418R	7/24/18	1 U		1.6	0.02	1 U		1 U		1 U		5.4	0.09	0.10	

Table 3 (continued)

Summary of Target VOC Concentrations and Contaminant Mass
 Performed on the Groundwater Samples Collected from Performance Monitoring Wells
 TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

Treatment Area	Sample ID	Sample Date	VOCs												Total Contaminant Mass m/L*
			1,1-DCE (96.94)		cis-1,2-DCE (96.94)		trans-1,2-DCE (96.94)		PCE (165.83)		TCE (131.39)		Vinyl Chloride (62.5)		
			µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	
Source - Behind	ATR-PM2-G110512	11/5/12	94	0.97	13,000	134	94	1.0	40 U		2,000	15	4,700	75	226
	ATR-PM2-G010713	1/7/13	70	0.72	9,200	95	67	0.7	20 U		660	5.0	4,400	70	172
	ATR-PM2-G020413	2/4/13	64	0.66	8,500	88	61	0.6	40 U		400	3.0	3,400	54	146
	ATR-PM2-G030613	3/6/13	79	0.81	8,300	86	59	0.6	20 U		300	2.3	3,100	50	139
	ATR-PM2-G050313	5/3/13	85	0.88	8,600	89	67	0.7	40 U		610	4.6	3,100	50	145
	ATR-PM2-G082715	8/27/15	5 U		380	3.9	5 U		5 U		5 U		1,200	19	23
	ATR-PM2-G022316	2/23/16	20 U		69	0.7	20 U		20 U		20 U		5,600	90	90
	ATR-PM2-G061616	6/16/16	10 U		20	0.2	10 U		10 U		10 U		5,300	85	85
	ATR-PM2-G092916	9/29/16	1 U		9.8	0.10	1 U		1 U		1 U		180	2.9	3.0
	ATR-PM2-G121316	12/13/16	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-PM2-G060717	6/7/17	1 U		12	0.12	1.2	0.01	1 U		1 U		360 J	5.8	5.9
	ATR-PM2-G101217	10/12/17	1 U		1 U		1 U		1 U		1 U		4.8	0.08	0.08
	ATR-PM-2-G032918	3/29/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-PM2-G072418	7/24/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00
Source - Behind	ATR-PM3-G110512	11/5/12	200	2.1	43,000	444	280	2.9	100 U		74	0.56	7,600	122	571
	ATR-PM3-G010713	1/7/13	270	2.8	44,000	454	370	3.8	100 U		50 U		9,700	155	616
	ATR-PM3-G020413	2/4/13	340	3.5	46,000	475	410	4.2	200 U		100 U		9,900	158	641
	ATR-PM3-G030513	3/5/13	390	4.0	44,000	454	450	4.6	100 U		50 U		7,100	114	576
	ATR-PM3-G050213	5/2/13	340	3.5	37,000	382	390	4.0	200 U		100 U		8,300	133	522
	ATR-PM3-G082715	8/27/15	100 U		200	2.1	100 U		100 U		100 U		200	3.2	5.3
	ATR-PM3-G022316	2/23/16	100 U		15,000	155	110	1.1	100 U		100 U		15,000	240	396
	ATR-PM3-G061716	6/17/16	88	0.9	13,000	134	180	1.9	50 U		50 U		25,000	400	537
	ATR-PM3-G092916	9/29/16	100 U		9,200	95	110	1.1	100 U		100 U		34,000	544	640
	ATR-PM3-G121316	12/13/16	500 U		4,100	42	500 U		500 U		500 U		6,600	106	148
	ATR-PM3-G060717	6/7/17	500 U		6,200	64	500 U		500 U		500 U		61,000 J	976	1,040
	ATR-PM3-G101217	10/12/17	20	0.2	3,000	31	110	1.1	1 U		1 U		34,000	544	576
	ATR-PM-3-G030118	3/1/18	100 U		3,900	40	100 U		100 U		100 U		22,000 J	352	392
	ATR-PM-3-G072418	7/24/18	50 U		2,700	28	50 U		50 U		50 U		22,000	352	380
ATR-PM-3-G072418R	7/24/18	50 U		3,000	31	50 U		50 U		50 U		19,000	304	335	

Table 3 (continued)
Summary of Target VOC Concentrations and Contaminant Mass
Performed on the Groundwater Samples Collected from Performance Monitoring Wells
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

Treatment Area	Sample ID	Sample Date	VOCs												
			1,1-DCE (96.94)		cis-1,2-DCE (96.94)		trans-1,2-DCE (96.94)		PCE (165.83)		TCE (131.39)		Vinyl Chloride (62.5)		Total Contaminant Mass
			µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	m/L*
Source - Inside	ATR-MW67(30)-G092612	9/26/12	20 U		7,900	81	69	0.71	40 U		20 U		870	14	96
	ATR-MW67(30)-G050613	5/6/13	50 U		21,000	217	170	1.8	100 U		50 U		1,800	29	247
	ATR-MW67-G031516	3/15/16	1.4	0.01	240	2.5	4.2	0.04	1.0	0.01	1.8	0.01	130	2.1	4.6
	ATR-MW67-G062016	6/20/16	1 UJ		160 J	1.7	2.1 J	0.02	1 UJ		1 UJ		64 J	1.0	2.7
	ATR-MW67-G092916	9/29/16	1 UJ		66 J	0.68	1 U		1 UJ		1 UJ		35 J	0.56	1.2
	ATR-MW67-G121216	12/12/16	1 U		18	0.19	1 U		1 U		1 U		10	0.16	0.35
	ATR-MW67-G060817	6/8/17	1 U		16	0.17	1 U		1 U		1 U		57 J	0.91	1.1
	ATR-MW67-G101217	10/12/17	1 U		13	0.13	1 U		1 U		1 U		13	0.21	0.34
	ATR-MW-67-G030118	3/1/18	1 U		4.0	0.04	1 U		1 U		1 U		73	1.2	1.2
ATR-MW67(30)-G072518	7/25/18	1 U		5.7	0.06	1 U		1 U		1 U		2.4	0.04	0.10	
Source - Inside	ATR-MW68(32)-G050613	5/6/13	50 U		28,000	289	170	1.8	100 U		50 U		3,000	48	339
	ATR-MW68-G031516	3/15/16	9.5	0.10	660 J	6.8	14	0.14	1 U		1 U		100	1.6	8.7
	ATR-MW68-G061716	6/17/16	2.1	0.02	190	2.0	5.0	0.05	1 U		1 U		89	1.4	3.5
	ATR-MW68-G092916	9/29/16	1.1	0.01	200	2.1	2.1	0.02	1 U		1 U		420	6.7	8.8
	ATR-MW68-G121316	12/13/16	5 U		130	1.3	5 U		5 U		5 U		2,400	38.4	40
	ATR-MW68-G060817	6/8/17	2 U		66	0.68	2 U		2 U		2 U		540	8.6	9.3
	ATR-MW68-G101217	10/12/17	5 U		40	0.41	5 U		5 U		5 U		2,500	40	40
	ATR-MW-68-G030118	3/1/18	5 U		140 J	1.4	5 U		5 U		5 U		960 J	15	17
ATR-MW68(32)-G072518	7/25/18	5 U		240 J	2.5	5 U		5 U		5 U		1,000	16	18	
Source - Inside	ATR-MW71(33)-G050613	5/6/13	100 U		38,000	392	240	2.5	200 U		100 U		7,500	120	514
	ATR-MW71-G031516	3/15/16	5 U		110	1.1	5 U		5 U		5 U		1,000	16	17
	ATR-MW71-G062016	6/20/16	1 U		26	0.3	1 U		1 U		1 U		300	4.8	5.1
	ATR-MW71-G092916	9/29/16	1 U		8.8	0.09	1 U		1 U		1 U		140	2.2	2.3
	ATR-MW71-G121216	12/12/16	1 U		8.7	0.09	1 U		1 U		1 U		270	4.3	4.4
	ATR-MW71-G060817	6/8/17	1 U		11	0.11	1 U		1 U		1 U		460 J	7.4	7.5
	ATR-MW71-G101217	10/12/17	1 U		12	0.12	1 U		1 U		1 U		120	1.9	2.0
	ATR-MW-71-G030118	3/1/18	5 U		7.1	0.07	5 U		5 U		5 U		1,300 J	21	21
ATR-MW71(33)-G072518	7/25/18	10 U		10 U		10 U		10 U		10 U		3,000	48	48	

Table 3 (continued)
Summary of Target VOC Concentrations and Contaminant Mass
Performed on the Groundwater Samples Collected from Performance Monitoring Wells
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

Treatment Area	Sample ID	Sample Date	VOCs												
			1,1-DCE (96.94)		cis-1,2-DCE (96.94)		trans-1,2-DCE (96.94)		PCE (165.83)		TCE (131.39)		Vinyl Chloride (62.5)		Total Contaminant Mass
			µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	m/L*
Source - Inside	ATR-MW72(32)-G030613	3/6/13	390	4.0	87,000	897	620	6.4	200 U		100 U		8,300	133	1,041
	ATR-MW72(32)-G050613	5/6/13	460	4.7	97,000	1,001	720	7.4	500 U		250 U		11,000	176	1,189
	ATR-MW72-G031516	3/15/16	1 U		48	0.5	1 U		1 U		1 U		88	1.4	1.9
	ATR-MW72-G062016	6/20/16	1 U		16	0.2	1 U		1 U		1 U		31	0.50	0.66
	ATR-MW72-G092916	9/29/16	1 U		11	0.11	1 U		1 U		1 U		40	0.64	0.75
	ATR-MW72-G121316	12/13/16	1 U		10	0.10	1 U		1 U		1 U		31	0.50	0.60
	ATR-MW72-G060817	6/8/17	1 U		8.8	0.09	1 U		1 U		1 U		6.5	0.10	0.19
	ATR-MW72-G101217	10/12/17	1 U		2.5	0.03	1 U		1 U		1 U		4.5	0.07	0.10
	ATR-MW72-G101217R	10/12/17	1 U		2.0	0.02	1 U		1 U		1 U		4.5	0.07	0.09
	ATR-MW-72-G030118	3/1/18	1 U		2.8	0.03	1 U		1 U		1 U		1.4	0.02	0.05
ATR-MW72(32)-G072518	7/25/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00	
Source - Inside	ATR-MW76(30)-G030513	3/5/13	92	0.9	19,000	196	210	2.2	40 U		20 U		4,100	66	265
	ATR-MW76(30)-G050613	5/6/13	20 U		7,100	73	49	0.5	40 U		20 U		650	10	84
	ATR-MW76-G031516	3/15/16	21	0.2	5,500	57	50	0.5	20 U		20 U		6,000	96	153
	ATR-MW76-G062016	6/20/16	31	0.3	8,700	90	82	0.8	1 U		1 U		22,000	352	443
	ATR-MW76-G092916	9/29/16	50 U		9,000	93	64	0.7	50 U		50 U		18,000	288	382
	ATR-MW76-G121416	12/14/16	50 U		4,900	51	50 U		50 U		50 U		13,000	208	259
	ATR-MW76-G060817	6/8/17	50 U		630	6.5	50 U		50 U		50 U		11,000	176	182
	ATR-MW76-G101217	10/12/17	1 U		97	1.0	1 U		1 U		1 U		170	2.7	3.7
	ATR-MW-76-G030118	3/1/18	5 U		41	0.42	5 U		5 U		5 U		1,100 J	18	18
	ATR-MW76(30)-G072518	7/25/18	5 U		36	0.37	5 U		5 U		5 U		1,200	19	20
ATR-MW76(30)-G072518R	7/25/18	5 U		36	0.37	5 U		5 U		5 U		1,100	18	18	
Source - Inside	ATR-MW77(41)-G030513	3/5/13	3	0.03	550	5.7	4.4	0.05	2 U		1 U		84	1.3	7.1
	ATR-MW77(41)-G050613	5/6/13	1 U		48	0.50	1 U		2 U		1 U		11	0.18	0.67
	ATR-MW77-G031516	3/15/16	1 U		1.8	0.02	1 U		1 U		1 U		6.7	0.11	0.13
	ATR-MW77-G062016	6/20/16	1 U		1 U		1 U		1 U		1 U		2.7	0.04	0.04
	ATR-MW77-G092916	9/29/16	1 U		1.2	0.01	1 U		1 U		1 U		1 U		0.01
	ATR-MW77-G121416	12/14/16	1 U		4.5	0.05	1 U		1 U		1 U		17	0.27	0.32
	ATR-MW77-G060817	6/8/17	1 U		2.9	0.03	1 U		1 U		1 U		53	0.85	0.88
	ATR-MW77-G101217	10/12/17	1 U		1.7	0.02	1 U		1 U		1 U		26	0.42	0.43
	ATR-MW-77(41)-G030118	3/1/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00
ATR-MW77(41)-G072518	7/25/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00	

Table 3 (continued)
Summary of Target VOC Concentrations and Contaminant Mass
Performed on the Groundwater Samples Collected from Performance Monitoring Wells
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

Treatment Area	Sample ID	Sample Date	VOCs												
			1,1-DCE (96.94)		cis-1,2-DCE (96.94)		trans-1,2-DCE (96.94)		PCE (165.83)		TCE (131.39)		Vinyl Chloride (62.5)		Total Contaminant Mass
			µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	m/L*
Source - Inside	ATR-MW78(35)-G030513	3/5/13	8.2	0.08	2,700	28	16	0.2	10 U		5 U		77	1.2	29
	ATR-MW78(35)-G050613	5/6/13	5 U		360	3.7	5 U		10 U		5 U		540	8.6	12
	ATR-MW78-G031516	3/15/16	1 U		1.6	0.02	1 U		1 U		1 U		8.8	0.14	0.16
	ATR-MW78-G062016	6/20/16	1 U		2.9	0.03	1 U		1 U		1 U		1 U		0.03
	ATR-MW78-G092916	9/29/16	1 U		1.5	0.02	1 U		1 U		1 U		1 U		0.02
	ATR-MW78-G121416	12/14/16	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW78-G060817	6/8/17	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW78-G101217	10/12/17	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW-78(35)-G030118	3/1/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW-78(35)-G030118R	3/1/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW78(35)-G072518	7/25/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00
Zone A	ATR-MW6C-G092612	9/26/12	10 U		3,600	37	10 U		20 U		10 U		1,200	19	56
	ATR-MW6C-G030513	3/5/13	5 U		2,400	25	13	0.13	10 U		5 U		740	12	37
	ATR-MW6C-G050713	5/7/13	5 U		1,800	19	10	0.10	10 U		5 U		1,200	19	38
	ATR-MW6C-G050713R	5/7/13	5 U		1,800	19	12	0.12	10 U		5 U		1,500	24	43
	ATR-MW6C-G082815	8/26/15	2 U		410	4.2	2 U		2 U		2 U		66	1.1	5.3
	ATR-MW6C-G022316	2/23/16	1 U		120	1.2	1 U		1 U		1 U		170	2.7	4.0
	ATR-MW6C-G061616	6/16/16	1 U		50	0.52	1 U		1 U		1 U		170	2.7	3.2
	ATR-MW6C-G092816	9/28/16	1 U		280	2.9	1.8	0.02	1 U		1.8	0.01	360	5.8	8.7
	ATR-MW6C-G020117	2/1/17	3.1	0.03	890	9.2	5.2	0.05	2 U		2 U		1,500	24	33
	ATR-MW6C-G060717	6/7/17	11	0.11	2,500	26	27	0.28	1 U		1 U		980 J	16	42
	ATR-MW6C-G101117	10/11/17	5 U		1,000	10	5 U		5 U		5 U		560	9.0	19
	ATR-MW6C-G101117R	10/11/17	5 U		950	9.8	5 U		5 U		5 U		510	8.2	18
	ATR-MW-6C-G022818	2/28/18	1 U		100	1.0	1 U		1 U		1 U		52	0.83	1.9
	ATR-MW-6C-G022818R	2/28/18	1 U		100	1.0	1 U		1 U		1	0.01	54 J	0.86	1.9
ATR-MW6C-G072618	7/26/18	1 U		74	0.76	1 U		1 U		1 U		35	0.56	1.3	

Table 3 (continued)
Summary of Target VOC Concentrations and Contaminant Mass
Performed on the Groundwater Samples Collected from Performance Monitoring Wells
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

Treatment Area	Sample ID	Sample Date	VOCs												
			1,1-DCE (96.94)		cis-1,2-DCE (96.94)		trans-1,2-DCE (96.94)		PCE (165.83)		TCE (131.39)		Vinyl Chloride (62.5)		Total Contaminant Mass
			µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	m/L*
Zone A	ATR-MW12-G050613	5/6/13	25 U		11,000	113	25 U		50 U		25 U		700	11	125
	ATR-MW12-G082615	8/26/15	10 U		2,900	30	14	0.14	10 U		10 U		560	9.0	39
	ATR-MW12-G022416	2/24/16	10 U		1,800	19	10 U		10 U		10 U		2,600	42	60
	ATR-MW12-G061616	6/16/16	5 U		630	6.5	5 U		5 U		5 U		1,300	21	27
	ATR-MW12-G092816	9/28/16	1 U		260	2.7	1.6	0.02	1 U		1 U		270	4.3	7.0
	ATR-MW12-G020117	2/1/17	1 U		230	2.4	1.6	0.02	1 U		1 U		190	3.0	5.4
	ATR-MW12-G060717	6/7/17	1 U		26	0.27	1 U		1 U		1 U		9.6 J	0.15	0.42
	ATR-MW12-G101117	10/11/17	1 U		1.3	0.01	1 U		1 U		1 U		1 U		0.01
	ATR-MW-12-G022818	2/28/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW12-G072618	7/26/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00
Zone A	ATR-MW13-G092712	9/27/12	10 U		4,900	51	31	0.32	20 U		10 U		440	7.0	58
	ATR-MW13-G050613	5/6/13	10 U		3,000	31	10 U		20 U		10 U		1,600	26	57
	ATR-MW13-G082615	8/26/15	10 U		3,400	35	16	0.17	10 U		10 U		870	14	49
	ATR-MW13-G030216	3/2/16	4.0	0.04	880	9.1	7.2	0.07	2 U		2 U		610	10	19
	ATR-MW13-G061616	6/16/16	1 U		190	2.0	1.0	0.01	1 U		1 U		96	1.5	3.5
	ATR-MW13-G092816	9/28/16	1 U		150	1.5	1 U		1 U		1 U		29	0.46	2.0
	ATR-MW13-G020117	2/1/17	1 U		70	0.72	1 U		1 U		1 U		47	0.75	1.5
	ATR-MW13-G060717	6/7/17	1 U		370	3.8	2.8	0.03	1 U		1 U		150 J	2.4	6.2
	ATR-MW13-G101117	10/11/17	1 U		130	1.3	1 U		1 U		1 U		160	2.6	3.9
	ATR-MW-13-G022818	2/28/18	1 U		44	0.45	1 U		1 U		1 U		39	0.62	1.1
ATR-MW13-G072618	7/26/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00	
Zone A	ATR-MW62(36)-G050213	5/2/13	10 U		2,400	25	10 U		20 U		10 U		2,000	32	57
	ATR-MW62-G082715	8/27/15	20 U		5,600	58	21	0.22	20 U		20 U		1,600	26	84
	ATR-MW62-G022316	2/23/16	1 U		37	0.4	1 U		1 U		1 U		180	2.9	3.3
	ATR-MW62-G061616	6/16/16	1 U		4.8	0.05	1 U		1 U		1 U		39	0.6	0.67
	ATR-MW62-G092916	9/29/16	1 U		1.7	0.02	1 U		1 U		1 U		7.1	0.11	0.13
	ATR-MW62-G020117	2/1/17	1 UJ		2.5 J	0.03	1 UJ		1 UJ		1 UJ		73 J	1.2	1.2
	ATR-MW62(36)-G060717	6/7/17	1 U		1 U		1 U		1 U		1 U		2.3 J	0.0	0.04
	ATR-MW62-G101117	10/11/17	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW-62(36)-G022818	2/28/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW62(36)-G072418	7/24/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00

Table 3 (continued)
Summary of Target VOC Concentrations and Contaminant Mass
Performed on the Groundwater Samples Collected from Performance Monitoring Wells
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

Treatment Area	Sample ID	Sample Date	VOCs												
			1,1-DCE (96.94)		cis-1,2-DCE (96.94)		trans-1,2-DCE (96.94)		PCE (165.83)		TCE (131.39)		Vinyl Chloride (62.5)		Total Contaminant Mass
			µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	m/L*
Zone A	ATR-MW20(35)-G050713	5/7/13	5 U		360	3.7	5 U		10 U		5 U		510	8.2	11.9
	ATR-MW20(35)-G082715	8/27/15	1 U		180	1.9	1.4	0.01	1.8	0.01	3.5	0.03	200	3.2	5.1
	ATR-MW20(35)-G082715R	8/27/15	1 U		180	1.9	1.2	0.01	1.8	0.01	3.5	0.03	250	4.0	5.9
	ATR-MW20(35)-G022316	2/23/16	1 U		27	0.3	1 U		1 U		1 U		99	1.6	1.9
	ATR-MW20(35)-G022316R	2/23/16	1 U		29	0.3	1 U		1 U		1 U		96	1.5	1.8
	ATR-MW20(35)-G061616	6/16/16	1 U		1.7	0.02	1 U		1 U		1 U		12	0.19	0.21
	ATR-MW20(35)-G061616R	6/16/16	1 U		2.1	0.02	1 U		1 U		1 U		12	0.19	0.21
	ATR-MW20(35)-G092816	9/28/16	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW20(35)-G092816R	9/28/16	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW20(35)-G020117	2/1/17	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW20(35)-G020117R	2/1/17	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW20(35)-G060717	6/7/17	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW20(35)-G060717R	6/7/17	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW20(35)-G101117	10/11/17	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW-20(35)-G022818	2/28/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00
ATR-MW20(35)-G072418	7/24/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00	
Zone A	ATR-MW20(51)-G050713	5/7/13	3.4	0.04	670	6.9	3.3	0.03	2 U		1 U		270	4.3	11.3
	ATR-MW20(51)-G050713R	5/7/13	3.2	0.03	570	5.9	3.4	0.04	2 U		1 U		230	3.7	9.6
	ATR-MW20(51)-G082715	8/27/15	1 U		350	3.6	1.7	0.02	1 U		1 U		210	3.4	7.0
	ATR-MW20(51)-G022316	2/23/16	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW20(51)-G061616	6/16/16	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW20(51)-G092816	9/28/16	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW20(51)-G020117	2/1/17	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW20(51)-G060717	6/7/17	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW20(51)-G101117	10/11/17	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW-20(51)-G022818	2/28/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00
ATR-MW20(51)-G072418	7/24/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00	

Table 3 (continued)
Summary of Target VOC Concentrations and Contaminant Mass
Performed on the Groundwater Samples Collected from Performance Monitoring Wells
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

Treatment Area	Sample ID	Sample Date	VOCs												
			1,1-DCE (96.94)		cis-1,2-DCE (96.94)		trans-1,2-DCE (96.94)		PCE (165.83)		TCE (131.39)		Vinyl Chloride (62.5)		Total Contaminant Mass
			µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	m/L*
Zone A	ATR-MW82(58)-G030513	3/5/13	1 U		13	0.13	1.7	0.02	2 U		8.4	0.06	9.9	0.16	0.37
	ATR-MW82(58)-G050613	5/7/13	1 U		12	0.12	1 U		2 U		7.6	0.06	17	0.27	0.45
	ATR-MW82-G082615	8/26/15	1 U		21	0.22	1.8	0.02	1 U		8.3	0.06	15	0.24	0.54
	ATR-MW82-G022316	2/23/16	1 U		4.8	0.05	1.5	0.02	1 U		1 U		9.8	0.16	0.22
	ATR-MW82-G061616	6/16/16	1 U		1 U		1.1	0.01	1 U		1 U		1 U		0.01
	ATR-MW82-G092816	9/28/16	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW82-G020117	2/1/17	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW82-G060717	6/7/17	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW82-G101117	10/11/17	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW-82(58)-G022818	2/28/18	1 UJ		1 UJ		1 UJ		1 UJ		1 UJ		1 UJ		0.00
	ATR-MW82(58)-G072418	7/24/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00
Zone A	ATR-OW1(28)-G121714	12/17/14	7.2	0.07	1,300	13	11	0.11	1 U		1 U		500	8.0	21.6
	ATR-OW1(S)-G082715	8/27/15	2 U		270	2.8	2 U		2 U		2 U		240	3.8	6.6
	ATR-OW1(28)-G02216	2/24/16	5 UJ		530 J	5.5	5 UJ		5 UJ		5 UJ		850 J	13.6	19.1
	ATR-OW1(28)-G061616	6/16/16	1 U		18	0.2	1 U		1 U		1 U		26	0.4	0.60
	ATR-OW1(28)-G092816	9/28/16	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-OW1(28)-G013117	1/31/17	1 U		1 U		1 U		1 U		1 U		2.3	0.04	0.04
	ATR-OW1(28)-G060717	6/7/17	1 U		1 U		1 U		1 U		1 U		2.3	0.04	0.04
	ATR-OW1(28)-G101117	10/11/17	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-OW-1(28)-G022818	2/28/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-OW1(28)-G072418	7/24/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00
Zone A	ATR-OW1(39)-G121714	12/17/14	2.1	0.02	540	5.6	1 U		1 U		1 U		650	10	16
	ATR-OW1(D)-G082715	8/27/15	1 U		180	1.9	1 U		1 U		1 U		370	5.9	7.8
	ATR-OW1(39)-G022916	2/29/16	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-OW1(39)-G061616	6/16/16	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-OW1(39)-G092816	9/28/16	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-OW1(39)-G020117	2/1/17	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-OW1(39)-G060717	6/7/17	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-OW1(39)-G101117	10/11/17	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-OW-1(39)-G022818	2/28/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-OW1(39)-G072418	7/24/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00

Table 3 (continued)
Summary of Target VOC Concentrations and Contaminant Mass
Performed on the Groundwater Samples Collected from Performance Monitoring Wells
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

Treatment Area	Sample ID	Sample Date	VOCs												
			1,1-DCE (96.94)		cis-1,2-DCE (96.94)		trans-1,2-DCE (96.94)		PCE (165.83)		TCE (131.39)		Vinyl Chloride (62.5)		Total Contaminant Mass
			µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	m/L*
Zone B	ATR-MW14-G092712	9/27/12	1 U		53	0.55	2.3	0.02	2 U		390	3.0	30	0.48	4.0
	ATR-MW14-G030513	3/5/13	1.2	0.01	60	0.62	2.7	0.03	2 U		380	2.9	6.1	0.10	3.6
	ATR-MW14-G050213	5/2/13	1 U		55	0.57	2.3	0.02	2 U		320	2.4	4.2	0.07	3.1
	ATR-MW14-G100815	10/8/15	2 U		110	1.1	3.0	0.03	2 U		570 J	4.3	3.6	0.06	5.6
	ATR-MW14-G022916	2/29/16	2 U		700	7.2	6.4	0.07	2 U		5.1	0.04	340	5.4	12.8
	ATR-MW14-G061516	6/15/16	1 U		20	0.2	1.5	0.02	1 U		2.2	0.02	23	0.4	0.61
	ATR-MW14-G092816	9/28/16	1 U		2.0	0.02	1 U		1 U		1 U		2.3	0.04	0.06
	ATR-MW14-G020117	2/1/17	1 U		1.6	0.02	1 U		1 U		1 U		1.9	0.03	0.05
	ATR-MW14-G060717	6/7/17	1 U		1.5	0.02	1 U		1 U		1 U		1 U		0.02
	ATR-MW14-G101017	10/10/17	1 U		1.0	0.01	1 U		1 U		1 U		1 U		0.01
	ATR-MW-14-G022818	2/28/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW14-G072418	7/24/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00
Zone B	MTR-MW24(24.9)-6082213	7/22/13	1 U		1 U		1 U		2 U		1 U		1 U		0.00
	ATR-MW24 (24.9)-G100815	10/8/15	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW24(24.9)-G022916	2/29/16	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW24(24.8)-G061516	6/15/16	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW24(24.9)-G092816	9/28/16	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW24(24.9)-G013117	1/31/17	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW24(24.9)-G060617	6/6/17	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW24(24.9)-G101017	10/10/17	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW-24(24.9)-G022718	2/27/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW24(24.9)-G072318	7/23/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00
Zone B	ATR-MW24(55.4)-G030513	3/5/13	1 U		61	0.63	5.9	0.06	2 U		130	1.0	1.6	0.03	1.7
	ATR-MW24(55.4)-G050213	5/2/13	1 U		57	0.59	4.5	0.05	2 U		110	0.84	1 U		1.5
	ATR-MW24(55.4)-G050213R	5/2/13	1 U		64	0.66	5.5	0.06	2 U		110	0.84	1 U		1.6
	ATR-MW24 (55.9)-G100815	10/8/15	1 U		49	0.51	2.5	0.03	1 U		110	0.84	1.0	0.02	1.4
	ATR-MW24(55.9)-G022916	2/29/16	1 U		56	0.58	2.8	0.03	1 U		130	0.99	1.1	0.02	1.6
	ATR-MW24(55.4)-G061516	6/15/16	1 U		47	0.48	2.2	0.02	1 U		110	0.84	1 U		1.3
	ATR-MW24(55.4)-G092816	9/28/16	1 U		46	0.47	2.1	0.02	1 U		72	0.55	1 U		1.0
	ATR-MW24(55.4)-G013117	1/31/17	1 U		130	1.3	2.7	0.03	1 U		1.4	0.01	2.3	0.04	1.4
	ATR-MW24(55.4)-G060717	6/7/17	1 U		54	0.56	5.3	0.05	1 U		1 U		92	1.47	2.1
	ATR-MW24(55.4)-G101017	10/10/17	1 U		1.5	0.02	1 U		1 U		1 U		1 U		0.02
	ATR-MW-24(55.4)-G022718	2/27/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW24(55.4)-G072318	7/23/18	1 U		8.6	0.09	1 U		1 U		1 U		26	0.42	0.50
ATR-MW24(55.4)-G072318R	7/23/18	1 U		10	0.10	1 U		1 U		1 U		29	0.46	0.57	

Table 3 (continued)
Summary of Target VOC Concentrations and Contaminant Mass
Performed on the Groundwater Samples Collected from Performance Monitoring Wells
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

Treatment Area	Sample ID	Sample Date	VOCs												
			1,1-DCE (96.94)		cis-1,2-DCE (96.94)		trans-1,2-DCE (96.94)		PCE (165.83)		TCE (131.39)		Vinyl Chloride (62.5)		Total Contaminant Mass
			µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	m/L*
Zone B	ATR-OW2(33)-G121814	12/18/14	1 U		180	1.9	1 U		1 U		1 U		140	2.2	4.1
	ATR-OW2 (33)-G100815	10/8/15	5.3	0.05	2,000	21	9.2	0.09	5 U		5 U		1,600	26	46
	ATR-OW2(33)-G022916	2/29/16	1 U		320	3.3	1.9	0.02	1 U		1 U		520	8.3	11.6
	ATR-OW2(33)-G061516	6/15/16	7.1	0.07	2,300	24	11	0.11	5 U		5 U		1,600	25.6	50
	ATR-OW2(33)-G092716	9/27/16	1 U		54	0.56	1 U		1 U		1 U		120	1.9	2.5
	ATR-OW2(33)-G013117	1/31/17	1 U		5.2	0.05	1 U		1 U		1 U		18	0.29	0.34
	ATR-OW2(33)-G060617	6/6/17	1 U		1.7	0.02	1 U		1 U		1 U		2.2	0.04	0.05
	ATR-OW2(33)-G101117	10/11/17	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-OW-2(33)-G022718	2/27/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-OW2(33)-G072318	7/23/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00
Zone B	ATR-OW2(53)-G121814	12/18/14	1 U		1,100	11	7.3	0.08	1 U		1 U		1,500	24	35
	ATR-OW2 (53)-G100815	10/8/15	1 U		30	0.31	1 U		1 U		1 U		19	0.30	0.61
	ATR-OW2(53)-G022916	2/29/16	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-OW2(53)-G061616	6/16/16	5 U		5 U		5 U		5 U		5 U		5 U		0.00
	ATR-OW2(53)-G092716	9/27/16	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-OW2(53)-G013117	1/31/17	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-OW2(53)-G060617	6/6/17	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-OW2(53)-G101117	10/11/17	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-OW-2(53)-G022718	2/27/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-OW2(53)-G072318	7/23/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00
Zone B	ATR-OW3(35)-G121614	12/16/14	1 U		300	3.1	1.7	0.02	1 U		8	0.06	94	1.5	4.7
	ATR-OW3 (35)-G100715	10/7/15	1 U		150	1.5	1.3	0.01	1 U		1 U		84	1.3	2.9
	ATR-OW3(35)-G022916	2/29/16	1 U		24	0.2	1 U		1 U		1 U		29	0.5	0.71
	ATR-OW3(35)-G061516	6/15/16	1 U		1 U		1 U		1 U		1 U		3.0	0.05	0.05
	ATR-OW3(35)-G092716	9/27/16	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-OW3(35)-G013117	1/31/17	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-OW3(35)-G060717	6/7/17	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-OW3(35)-G101117	10/11/17	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-OW-3(35)-G022718	2/27/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-OW3(35)-G072418	7/24/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00

Table 3 (continued)
Summary of Target VOC Concentrations and Contaminant Mass
Performed on the Groundwater Samples Collected from Performance Monitoring Wells
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

Treatment Area	Sample ID	Sample Date	VOCs												
			1,1-DCE (96.94)		cis-1,2-DCE (96.94)		trans-1,2-DCE (96.94)		PCE (165.83)		TCE (131.39)		Vinyl Chloride (62.5)		Total Contaminant Mass
			µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	m/L*
Zone B	ATR-OW3(55)-G121614	12/16/14	1 U		110	1.1	45	0.46	1 U		680	5.2	3.3	0.05	6.8
	ATR-OW3 (55)-G100715	10/7/15	1 UJ		55 J	0.57	9.1 J	0.09	1 U		430	3.3	1.0 J	0.02	3.9
	ATR-OW3 (55)-G100715 R	10/7/15	1.1 J	0.01	89 J	0.92	21 J	0.22	1 U		430	3.3	2.4 J	0.04	4.5
	ATR-OW3(55)-G022916	2/29/16	10 U		1,600 J	16.5	10 U		10 U		10 U		22	0.35	16.9
	ATR-OW3(55)-G022916 R	2/29/16	10 U		1,200 J	12.4	37	0.38	10 U		10 U		24	0.38	13.1
	ATR-OW3(55)-G061516	6/15/16	2 U		700	7.2	22	0.23	2 U		2 U		80	1.3	8.7
	ATR-OW3(55)-G092716	9/27/16	1 U		370	3.8	17	0.18	1 U		1 U		290	4.6	8.6
	ATR-OW3(55)-G013117	1/31/17	NA		NA		NA		NA		NA		NA		
	ATR-OW3(55)-G060717	6/7/17	1 U		11	0.11	4.8	0.05	1 U		1 U		4.8 J	0.08	0.24
	ATR-OW3(55)-G101017	10/10/17	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-OW-3(55)-G022718	2/27/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-OW3(55)-G072418	7/24/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00
Zone C	ATR-MW15-G041312	4/13/12	5 U		1,800	19	57	0.59	10 U		28	0.21	350	5.6	25
	ATR-MW15-G041312R	4/13/12	5 U		1,300	13	40	0.41	10 U		27	0.21	220	3.5	18
	ATR-MW15-G030613	3/6/13	15	0.15	2,800	29	71	0.73	10 U		200	1.5	380	6.1	37
	ATR-MW15-G050213	5/2/13	10 U		2,900	30	62	0.64	20 U		240	1.8	300	4.8	37
	ATR-MW15-G050213R	5/2/13	14	0.14	2,800	29	67	0.69	10 U		220	1.7	300	4.8	36
	ATR-MW15-6082213	7/22/13	11	0.11	2,100	22	58	0.60	10 U		160	1.2	190	3.0	27
	ATR-MW15-G101315	10/13/15	55	0.57	4,600	47	350	3.6	10 U		690	5.3	460	7.4	64
	ATR-MW15-G030116	3/1/16	24	0.25	4,500	46	130	1.3	20 U		20 U		360	5.8	54
	ATR-MW15-G061516	6/15/16	22 J	0.23	4,300 J	44	140 J	1.4	10 UJ		10 UJ		340 J	5.4	51
	ATR-MW15-G092716	9/27/16	15	0.15	3,700	38.2	140	1.44	5 U		5 U		1,200	19.2	59
	ATR-MW15-G013117	1/31/17	1 U		65	0.67	56	0.58	1 U		1 U		32	0.51	1.8
	ATR-MW15-G060617	6/6/17	1 U		4.2	0.04	24	0.25	1 U		1 U		8.8	0.14	0.43
	ATR-MW15-G101017	10/10/17	1 U		1.4	0.01	9.1	0.09	1 U		1 U		1.8	0.03	0.14
	ATR-MW-15-G022818	2/28/18	1 U		1.3	0.01	5.4	0.06	1 U		1 U		1.8	0.03	0.10
	ATR-MW15-G072318	7/23/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00

Table 3 (continued)
Summary of Target VOC Concentrations and Contaminant Mass
Performed on the Groundwater Samples Collected from Performance Monitoring Wells
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

Treatment Area	Sample ID	Sample Date	VOCs												
			1,1-DCE (96.94)		cis-1,2-DCE (96.94)		trans-1,2-DCE (96.94)		PCE (165.83)		TCE (131.39)		Vinyl Chloride (62.5)		Total Contaminant Mass
			µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	m/L*
Zone C	ATR-MW25(16.4)-G092712	9/27/12	5 U		1,800	19	5 U		10 U		5 U		630	10	29
	ATR-MW25(16.4)-G030613	3/6/13	5 U		2,600	27	15	0.15	10 U		5 U		560	9.0	36
	ATR-MW25(16.4)-G050213	5/2/13	10 U		2,500	26	10 U		20 U		10 U		520	8.3	34
	ATR-MW25(16.4)-G101315	10/13/15	14	0.14	3,600	37	38	0.39	10 U		10 U		670	11	48
	ATR-MW25(16.4)-G030116	3/1/16	2 U		480	5.0	2 U		2 U		2 U		320	5.1	10
	ATR-MW25(16.4)-G061516	6/15/16	1 U		49	0.51	1 U		1 U		1 U		16	0.26	0.76
	ATR-MW25(16.4)-G092716	9/27/16	1 U		6.4	0.1	1 U		1 U		1 U		6.0	0.1	0.16
	ATR-MW25(16.4)-G013117	1/31/17	1 U		25	0.26	1 U		1 U		1 U		11	0.18	0.43
	ATR-MW25(16.4)-G060617	6/6/17	1 U		2.9	0.03	1 U		1 U		1 U		3.1	0.05	0.08
	ATR-MW25(16.4)-G060617R	6/6/17	1 U		3.1	0.03	1 U		1 U		1 U		3.2	0.05	0.08
	ATR-MW25(16.4)-G101017	10/10/17	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW-25(16.4)-G022718	2/27/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW25(16.4)-G072318	7/23/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00
Zone C	ATR-MW25(32.6)-G041612	4/16/12	1.8	0.02	590	6.09	2.0	0.02	2 U		1 U		270	4.3	10
	ATR-MW25(32.6)-G030613	3/6/13	10 U		1,300	13	10.0 U		20 U		10 U		440	7.0	20
	ATR-MW25(32.6)-G050213	5/2/13	5 U		1,500	15	5.0 U		10 U		5 U		360	5.8	21
	ATR-MW25(32.6)-G061914	6/19/14	5 U		1,200	12	5.0 U		5 U		14 J	0.11	300 J	4.8	17
	ATR-MW25(32.6)-G101315	10/13/15	5 U		1,600	17	7.4	0.08	5 U		78	0.59	980	16	33
	ATR-MW25(32.6)-G030116	3/1/16	2 U		420	4.3	2.6	0.03	2 U		2 U		500	8.0	12
	ATR-MW25(32.6)-G061516	6/15/16	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW25(32.6)-G092716	9/27/16	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW25(32.6)-G013117	1/31/17	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW25(32.6)-G060617	6/6/17	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW25(32.6)-G101017	10/10/17	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW-25(32.6)-G022718	2/27/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW25(32.6)-G072318	7/23/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00

Table 3 (continued)
Summary of Target VOC Concentrations and Contaminant Mass
Performed on the Groundwater Samples Collected from Performance Monitoring Wells
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

Treatment Area	Sample ID	Sample Date	VOCs												
			1,1-DCE (96.94)		cis-1,2-DCE (96.94)		trans-1,2-DCE (96.94)		PCE (165.83)		TCE (131.39)		Vinyl Chloride (62.5)		Total Contaminant Mass
			µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	m/L*
Zone C	MTR-MW25(45.2)-6082213	7/22/13	3.1	0.03	750	7.7	71	0.73	4 UJ		7.1	0.05	92	1.5	10
	ATR-MW25(45.2)-G101315	10/13/15	10 U		1,800	19	200	2.1	10 U		15	0.11	220	3.5	24
	ATR-MW25(45.2)-G030116	3/1/16	7.5	0.08	2,400	24.8	180	1.9	2 U		2 U		370	5.9	33
	ATR-MW25(45.2)-G061516	6/15/16	6.6	0.07	1,700	17.5	65	0.7	5 U		5 U		870	13.9	32
	ATR-MW25(45.2)-G092716	9/27/16	10 U		190	2.0	10 U		10 U		10 U		480	7.7	9.6
	ATR-MW25(45.2)-G013117	1/31/17	2 U		2 U		2 U		2 U		2 U		2 U		0.00
	ATR-MW25(45.2)-G060617	6/6/17	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW25(45.2)-G101017	10/10/17	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW-25(45.2)-G022718	2/27/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW25(45.2)-G072418	7/24/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00
Zone C	ATR-OW4(35)-G121614	12/16/14	1 U		210	2.2	1 U		1 U		2.4	0.02	540	8.6	11
	ATR-OW4(35)-G101315	10/13/15	5 U		170	1.8	5 U		5 U		5 U		230	3.7	5.4
	ATR-OW4(35)-G030116	3/1/16	5 U		760 J	7.8	7.6	0.08	5 U		5 U		480	7.7	16
	ATR-OW4(35)-G061516	6/15/16	5 U		290	3.0	5 U		5 U		5 U		930	14.9	18
	ATR-OW4(35)-G092716	9/27/16	1 U		53	0.5	3.0	0.03	1 U		1 U		240	3.8	4.4
	ATR-OW4(35)-G013117	1/31/17	1 U		17	0.2	3.2	0.03	1 U		1 U		66	1.1	1.3
	ATR-OW4(35)-G060717	6/7/17	1 U		1.9	0.02	1.3	0.01	1 U		1 U		5.2 J	0.08	0.12
	ATR-OW4(35)-G101017	10/10/17	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-OW-4(35)-G022818	2/28/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-OW4(35)-G072318	7/23/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00
Zone C	ATR-OW4(54)-G121614	12/16/14	1 U		2.5	0.03	1 U		1 U		1 U		1 U		0.03
	ATR-OW4(54)-G101315	10/13/15	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-OW4(54)-G030116	3/1/16	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-OW4(54)-G061516	6/15/16	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-OW4(54)-G092716	9/27/16	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-OW4(54)-G013117	1/31/17	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-OW4(54)-G060617	6/6/17	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-OW4(54)-G101017	10/10/17	1 U		1.3	0.01	1 U		1 U		1 U		1 U		0.01
	ATR-OW-4(54)-G022818	2/28/18	1 U		1.2	0.01	1 U		1 U		1 U		1 U		0.01
	ATR-OW4(54)-G072418	7/24/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00

Table 3 (continued)
Summary of Target VOC Concentrations and Contaminant Mass
Performed on the Groundwater Samples Collected from Performance Monitoring Wells
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

Treatment Area	Sample ID	Sample Date	VOCs												
			1,1-DCE (96.94)		cis-1,2-DCE (96.94)		trans-1,2-DCE (96.94)		PCE (165.83)		TCE (131.39)		Vinyl Chloride (62.5)		Total Contaminant Mass
			µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	m/L*
Zone D	ATR-MW16-G092612	9/26/12	1 U		360	3.7	11	0.11	2 U		42	0.32	130	2.1	6.2
	ATR-MW16-G030613	3/6/13	1 U		370	3.8	12	0.12	2 U		27	0.21	260	4.2	8.3
	ATR-MW16-G030613R	3/6/13	1 U		340	3.5	12	0.12	2 U		27	0.21	210	3.4	7.2
	ATR-MW16-G040313	4/3/13	1 U		390	4.0	12	0.12	2 U		18	0.14	290	4.6	8.9
	ATR-MW16-G050213	5/2/13	1 U		410	4.2	13	0.13	2 U		19	0.14	200	3.2	7.7
	ATR-MW16-G100715	10/7/15	1.7	0.02	480	5.0	10	0.10	1 U		2.2	0.02	170	2.7	7.8
	ATR-MW16-G030116	3/1/16	2 U		630	6.5	10	0.10	2 U		2 U		250	4.0	11
	ATR-MW16-G061416	6/14/16	1 U		320	3.3	2.4	0.02	1 U		1 U		270	4.3	7.6
	ATR-MW16-G092616	9/26/16	1 U		100	1.0	1 U		1 U		1 U		200	3.2	4.2
	ATR-MW16-G013017	1/30/17	1 U		15	0.15	1 U		1 U		1 U		95	1.5	1.7
	ATR-MW16-G060617	6/6/17	1 U		4.0	0.04	1 U		1 U		1 U		44 J	0.70	0.75
	ATR-MW16-G101017	10/10/17	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW-16-G022718	2/27/18	1 U		1 U		1 U		1 U		1 U		1 UJ		0.00
	ATR-MW16-G071918	7/19/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00
Zone D	ATR-MW17-G092612	9/26/12	1 U		67	0.69	2.4	0.02	2 U		270	2.1	1 U		2.8
	ATR-MW17-G030613	3/6/13	1 U		56	0.58	1.9	0.02	2 U		200	1.5	1 U		2.1
	ATR-MW17-G030613R	3/6/13	1 U		58	0.60	1.9	0.02	2 U		220	1.7	1.7	0.03	2.3
	ATR-MW17-G040313	4/3/13	1 U		46	0.47	1.5	0.02	2 U		210	1.6	1 U		2.1
	ATR-MW17-G050213	5/2/13	1 U		51	0.53	1.8	0.02	2 U		190	1.4	1 U		2.0
	ATR-MW17-G100715	10/7/15	1 U		41	0.42	1.6	0.02	1 U		190 J	1.4	1 U		1.9
	ATR-MW17-G030116	3/1/16	1 U		44	0.45	1.7	0.02	1 U		190	1.4	1 U		1.9
	ATR-MW17-G061416	6/14/16	1 U		41	0.42	1.8	0.02	1 U		220	1.7	1 U		2.1
	ATR-MW17-G092616	9/26/16	1 U		36	0.37	1.5	0.02	1 U		170	1.3	1 U		1.7
	ATR-MW17-G013017	1/30/17	1 U		13	0.13	1 U		1 U		76	0.58	1 U		0.71
	ATR-MW17-G060617	6/6/17	1 U		26	0.27	1 U		1 U		78	0.59	1 U		0.86
	ATR-MW17-G101017	10/10/17	1 U		20	0.21	1 U		1 U		52	0.40	1 U		0.60
	ATR-MW-17-G022718	2/27/18	1 U		33	0.34	1 U		1 U		57	0.43	1 U		0.77
	ATR-MW17-G071918	7/19/18	1 U		30	0.31	1 U		1 U		70	0.53	1 U		0.84
ATR-MW17-G071918R	7/19/18	1 U		31	0.32	1 U		1 U		67	0.51	1 U		0.83	

Table 3 (continued)
Summary of Target VOC Concentrations and Contaminant Mass
Performed on the Groundwater Samples Collected from Performance Monitoring Wells
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

Treatment Area	Sample ID	Sample Date	VOCs												
			1,1-DCE (96.94)		cis-1,2-DCE (96.94)		trans-1,2-DCE (96.94)		PCE (165.83)		TCE (131.39)		Vinyl Chloride (62.5)		Total Contaminant Mass
			µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	m/L*
Zone D	ATR-MW26(17.5)-G092712	9/27/12	2.8	0.03	770	7.9	12	0.12	2 U		4.1	0.03	380	6.1	14
	ATR-MW26(17.5)-G010813	1/8/13	5 U		1,200	12	15	0.15	10 U		5 U		500	8.0	21
	ATR-MW26(17.5)-G030613	3/6/13	5 U		1,200	12	14	0.14	10 U		5 U		430	6.9	19
	ATR-MW26(17.5)-G040313	4/3/13	5 U		1,200	12	12	0.12	10 U		5 U		650	10	23
	ATR-MW26(17.5)-G050313	5/3/13	5 U		880	9.1	11	0.11	10 U		5 U		530	8.5	18
	ATR-MW26 (17.5)-G100715	10/7/15	1 U		510	5.3	3.2	0.03	1 U		1 U		170	2.7	8.0
	ATR-MW26(17.5)-G030116	3/1/16	1 U		170	1.8	1 U		1 U		1 U		110	1.8	3.5
	ATR-MW26(17.5)-G061416	6/14/16	1 U		13	0.1	1 U		1 U		1 U		11	0.2	0.31
	ATR-MW26(17.5)-G092616	9/26/16	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW26(17.5)-G013017	1/30/17	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW26(17.5)-G060617	6/6/17	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW26(17.5)-G100917	10/9/17	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW-26(17.5)-G022618	2/26/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW26(17.5)-G072018	7/20/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00
Zone D	ATR-MW26(28.8)-G092712	9/27/12	1 U		45	0.46	2.2	0.02	2 U		22	0.17	13	0.21	0.86
	ATR-MW26(28.8)-G092712R	9/27/12	1 U		47	0.48	2.3	0.02	2 U		24	0.18	14	0.22	0.92
	ATR-MW26(28.8)-G010813	1/8/13	1.4	0.01	480	5.0	9.9	0.10	2 U		1 U		130	2.1	7.1
	ATR-MW26(28.8)-G030613	3/6/13	1.2	0.01	330	3.4	10	0.10	2 U		1 U		150	2.4	5.9
	ATR-MW26(28.8)-G040313	4/3/13	1.5	0.02	460	4.7	11	0.11	2 U		1.4	0.01	240	3.8	8.7
	ATR-MW26(28.8)-G050313	5/3/13	2.3	0.02	490	5.1	14	0.14	2 U		1.9	0.01	200	3.2	8.4
	ATR-MW26 (28.8)-G100715	10/7/15	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW26(28.8)-G030116	3/1/16	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW26(28.8)-G061416	6/14/16	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW26(28.8)-G092616	9/26/16	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW26(28.8)-G013017	1/30/17	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW26(28.8)-G060617	6/6/17	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW26(28.8)-G100917	10/9/17	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW-26(28.8)-G022618	2/26/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00
ATR-MW26(28.8)-G072018	7/20/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00	

Table 3 (continued)
Summary of Target VOC Concentrations and Contaminant Mass
Performed on the Groundwater Samples Collected from Performance Monitoring Wells
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

Treatment Area	Sample ID	Sample Date	VOCs												
			1,1-DCE (96.94)		cis-1,2-DCE (96.94)		trans-1,2-DCE (96.94)		PCE (165.83)		TCE (131.39)		Vinyl Chloride (62.5)		Total Contaminant Mass
			µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	m/L*
Zone D	ATR-MW26(58.2)-G041612	4/16/12	1 U		2.2	0.02	1 U		2 U		1.8	0.01	1 U		0.04
	ATR-MW26(58.2)-G060413	6/4/13	1 U		2.4	0.02	1 U		2 U		1 U		1 U		0.02
	ATR-MW26 (58.8)-G100715	10/7/15	1 U		8.3	0.09	1 U		1 U		1 U		3.1	0.05	0.14
	ATR-MW26(58.8)-G030116	3/1/16	1 U		20	0.21	1.1	0.01	1 U		1 U		13	0.21	0.43
	ATR-MW26(58.2)-G061416	6/14/16	1 U		10	0.10	1.1	0.01	1 U		1 U		26	0.42	0.53
	ATR-MW26(58.2)-G092616	9/26/16	1 U		14	0.14	2.3	0.02	1 U		1 U		43	0.69	0.86
	ATR-MW26(58.8)-G013017	1/30/17	1 U		3.0	0.03	2.3	0.02	1 U		1 U		5.1	0.08	0.14
	ATR-MW26(58.8)-G013017R	1/30/17	1 U		3.0	0.03	2.3	0.02	1 U		1 U		5.3	0.08	0.14
	ATR-MW26(58.2)-G060617	6/6/17	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW26(58.2)-G101017	10/10/17	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW-26(58.2)-G022618	2/26/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MW26(58.2)-G072018	7/20/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00
Zone D	ATR-ZVI-2(17.5)-G121812	12/18/12	2.3	0.02	1,300	13.4	12	0.12	2 U		5.1	0.04	400	6.4	20
	ATR-ZVI-2(17.5)-G010813	1/8/13	5 U		1,200	12.4	12	0.12	10 U		5 U		480	7.7	20
	ATR-ZVI-2(17.5)-G030613	3/6/13	5 U		1,500	15.5	13	0.13	10 U		5 U		460	7.4	23
	ATR-ZVI-2(17.5)-G040313	4/3/13	5 U		1,500	15.5	11	0.11	10 U		5 U		450	7.2	23
	ATR-ZVI-2(17.5)-G050313	5/3/13	5 U		1,500	15.5	10	0.10	10 U		5 U		350	5.6	21
	ATR-ZVI2 (17.5)-G100715	10/7/15	1 U		320	3.3	2.9	0.03	1 U		1 U		250	4.0	7.3
	ATR-ZVI2(17.5)-G030216	3/2/16	1 U		1.6	0.02	1 U		1 U		1 U		9.1	0.15	0.16
	ATR-ZVI2(17.5)-G061416	6/14/16	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-ZVI2(17.5)-G092616	9/26/16	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-ZVI2(17.5)-G013117	1/31/17	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-ZVI2(17.5)-G060617	6/6/17	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MWZV12(17.5)-G100917	10/9/17	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-ZVI-2(17.5)-G022618	2/26/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-ZVI-2(17.5)-G071918	7/19/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00

Table 3 (continued)
Summary of Target VOC Concentrations and Contaminant Mass
Performed on the Groundwater Samples Collected from Performance Monitoring Wells
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

Treatment Area	Sample ID	Sample Date	VOCs												
			1,1-DCE (96.94)		cis-1,2-DCE (96.94)		trans-1,2-DCE (96.94)		PCE (165.83)		TCE (131.39)		Vinyl Chloride (62.5)		Total Contaminant Mass
			µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	m/L*
Zone D	ATR-ZVI-2(32.5)-G121812	12/18/12	3.9	0.04	580	6.0	10	0.10	2 U		16	0.12	210	3.4	10
	ATR-ZVI-2(32.5)-G010813	1/8/13	4.2	0.04	670	6.9	13	0.13	2 U		3.2	0.02	280	4.5	12
	ATR-ZVI-2(32.5)-G030613	3/6/13	4.6	0.05	650	6.7	16	0.17	2 U		1 U		280	4.5	11
	ATR-ZVI-2(32.5)-G030613R	3/6/13	4.5	0.05	650	6.7	16	0.17	2 U		1 U		280	4.5	11
	ATR-ZVI-2(32.5)-G040313	4/3/13	3.6	0.04	710	7.3	14	0.14	2 U		1 U		410	6.6	14
	ATR-ZVI-2(32.5)-G040313R	4/3/13	3.5	0.04	710	7.3	14	0.14	2 U		1 U		410	6.6	14
	ATR-ZVI-2(32.5)-G050313	5/3/13	3.9	0.04	600	6.2	15	0.15	2 U		1 U		340	5.4	12
	ATR-ZVI2 (32.5)-G100715	10/7/15	2.2	0.02	320	3.3	2.8	0.03	1 U		1 U		130	2.1	5.4
	ATR-ZVI2(32.5)-G030116	3/1/16	1 U		160	1.7	1 U		1 U		1 U		140	2.2	3.9
	ATR-ZVI2(32.5)-G061416	6/14/16	1 U		30	0.3	1 U		1 U		1 U		65	1.0	1.3
	ATR-ZVI2(32.5)-G092616	9/26/16	1 U		5.9	0.06	1 U		1 U		1 U		51	0.82	0.88
	ATR-ZVI2(32.5)-G013117	1/31/17	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-ZVI2(32.5)-G060617	6/6/17	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MWZV12(32.5)-G100917	10/9/17	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-ZVI-2(32.5)-G022618	2/26/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00
ATR-ZVI-2(32.5)-G071918	7/19/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00	
Zone D	ATR-OW5(16)-G121714	12/17/14	1 U		780	8.0	5.6	0.06	1 U		9.4	0.07	230	3.7	12
	ATR-OW5 (16)-G100715	10/7/15	2 U		720	7.4	6.1	0.06	2 U		2 U		190	3.0	11
	ATR-OW5(16)-G030116	3/1/16	1 U		350	3.6	3.1	0.03	1 U		1 U		250	4.0	7.6
	ATR-OW5(16)-G061416	6/14/16	1 U		230	2.4	1.2	0.01	1 U		1 U		47	0.75	3.1
	ATR-OW5(16)-G092716	9/27/16	1 U		48	0.5	1 U		1 U		1 U		49	0.78	1.3
	ATR-OW5(16)-G013017	1/30/17	1 U		1 U		1 U		1 U		1 U		2.2	0.04	0.04
	ATR-OW5(16)-G060617	6/6/17	1 U		1 U		1 U		1 U		1 U		1.6	0.03	0.03
	ATR-MWOW05(16)-G101017	10/10/17	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-OW-05(16)-G022718	2/27/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-OW05(16)-G072318	7/23/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00

Table 3 (continued)
Summary of Target VOC Concentrations and Contaminant Mass
Performed on the Groundwater Samples Collected from Performance Monitoring Wells
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

Treatment Area	Sample ID	Sample Date	VOCs												
			1,1-DCE (96.94)		cis-1,2-DCE (96.94)		trans-1,2-DCE (96.94)		PCE (165.83)		TCE (131.39)		Vinyl Chloride (62.5)		Total Contaminant Mass
			µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	µg/L	m/L*	m/L*
Zone D	ATR-OW5(35)-G121714	12/17/14	1 U		1,200	12.4	15	0.15	1 U		330	2.5	43	0.69	16
	ATR-OW5 (35)-G100715	10/7/15	5.0	0.05	1,100	11.3	5.4	0.06	5 U		5 U		170	2.7	14
	ATR-OW5(35)-G030116	3/1/16	5 U		980	10.1	6.5	0.07	5 U		5 U		260	4.2	14
	ATR-OW5(35)-G061416	6/14/16	1 U		32	0.3	2.1	0.02	1 U		1 U		170 J	2.7	3.1
	ATR-OW5(35)-G092616	9/26/16	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-OW5(35)-G013017	1/30/17	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-OW5(35)-G060617	6/6/17	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MWOW2(35)-G101017	10/10/17	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-OW-5(35)-G022718	2/27/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-OW5(35)-G072318	7/23/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00
Zone D	ATR-OW5(44)-G121714	12/17/14	1 U		220	2.3	6.1	0.06	1 U		5.5	0.04	580	9.3	12
	ATR-OW5 (54)-G100715	10/7/15	7.0	0.07	2,000	20.6	14	0.14	5 U		5 U		300	4.8	26
	ATR-OW5(54)-G030116	3/1/16	6.6	0.07	1,900	19.6	8.2	0.08	5 U		5 U		700	11	31
	ATR-OW5(45)-G061416	6/14/16	5 U		1,000	10.3	5 U		5 U		5 U		670	11	21
	ATR-OW5(45)-G092616	9/26/16	1 U		180	1.9	1.1	0.01	1 U		1 U		140	2.2	4.1
	ATR-OW5(45)-G013017	1/30/17	1 U		2.3	0.02	1 U		1 U		1 U		3.3	0.05	0.08
	ATR-OW5(44)-G060617	6/6/17	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-MWOW2(44)-G101017	10/10/17	1 U		1.8	0.02	1 U		1 U		1 U		5.0	0.08	0.10
	ATR-OW-5(44)-G022718	2/27/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00
	ATR-OW5(44)-G072318	7/23/18	1 U		1 U		1 U		1 U		1 U		1 U		0.00

Notes:

J - Estimated concentration, analyte detected below quantitation limit

U - Analyzed but not detected above the MDL

(96.94) - Compound molecular weight in grams per mole

m/L* - micromole per liter

µg/L - micrograms per liter

Green text is baseline data

Blue text is performance monitoring data

NA - Not Analyzed

Prepared by: RLB

Checked by: PJS

Table 4
Summary of Dissolved Gases and Volatile Fatty Acid Results
Performed on the Groundwater Samples Collected from Performance Monitoring Wells
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

Treatment Area	Sample ID	Sample Date	Dissolved Gases			Volatile Fatty Acids									
			Methane	Ethane	Ethene	Lactic Acid	Acetic Acid	Propionic Acid	Formic Acid	Butyric Acid	Pyruvic Acid	i-Pentanoic Acid	Pentanoic Acid	i-Hexanoic Acid	Hexanoic Acid
			µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Source - Behind	ATR-MW81(27)-G110512	11/5/12	11,000	170	550	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW81(27)-G020413	2/4/13	NA	NA	NA	0.10 U	2.4	6.9	0.44	4.9	0.16	0.071 J	0.24	0.050 U	0.10 U
	ATR-MW81(27)-G030613	3/6/13	11,000	220	640	0.20	0.80	1.2	0.12	0.89	0.066 J	0.027 J	0.12	0.050 U	0.10 U
	ATR-MW81(27)-G050313	5/3/13	11,000	230	760	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW81(27)-G082715	8/27/15	8,500	150	520	0.38 J	270	93	3.1 J	150	0.59 J	0.58 J	3.5	0.29	1.4
	ATR-MW81(27)-G022316	2/23/16	19,000	850	1,300	2.0 U	410	64	0.44 J	38	17	1.8	13	0.067 J	6.0
	ATR-MW81(27)-G061616	6/16/16	20,000	310	1,700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW81(27)-G092916	9/29/16	21,000	280	1,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW81(27)-G121316	12/13/16	26,000	350	1,100	20 U	200	3.9	3.3	28	1.3	0.60 J	0.58 J	0.17 J	7.8
	ATR-MW81(27)-G060717	6/7/17	22,000	320	2,100	2 U	290	5.5 J	5.4	30	3.2	0.76 J	1.4	0.94	9.4
	ATR-MW81(27)-G101117	10/11/17	22,000	340	1,700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW-81(27)-G022818	2/28/18	21,000	420	1,800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW-81(27)-G022818R	2/28/18	18,000	380	1,700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW81(27)-G072418	7/24/18	22,000	200	230	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MTR-MW59(29)-G092712	9/27/12	11,000	240	1,600	0.022 J	0.021 J	0.050 U	0.083 J	0.050 U	0.15 U	0.15 U	0.070 U	0.050 U	0.050 U
	MTR-MW59(29)-G092712R	9/27/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MTR-MW59(29)-G020413	2/4/13	NA	NA	NA	2.8	160	190	6.7 J	240	6.0	3.0	6.4	0.05 U	4.9
	MTR-MW59(29)-G030613	3/6/13	14,000	280	9,600	1.0 U	86	97	2.5 J	120	3.9	2.2	3.9	0.05 U	2.5
	MTR-MW59(29)-G050313	5/3/13	13,000	250	4,900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW59(29)-G082715	8/27/15	18,000	400	4,300	0.26 J	98	110	0.53 J	24	0.31 J	0.085 J	0.5	0.2 U	0.5 U
	ATR-MW59(29)-G022316	2/23/16	21,000	420	13,000	20 U	400	72	0.15 J	37	14	1.4	14	0.16 J	7.5
	ATR-MW59(29)-G061716	6/17/16	24,000	170	13,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW59(29)-G061716R	6/17/16	19,000	140	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW59(29)-G093016	9/30/16	16,000	130	7,400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW59(29)-G093016R	9/30/16	18,000	140	8,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW59(29)-G121316	12/13/16	24,000	240	6,200	20 U	260	9.5 J	4.1	32	0.95 J	0.45 J	1.6	0.11 J	5.0
	ATR-MW59(29)-G121316R	12/13/16	24,000	230	6,200	20 U	260	9.6 J	4.1	33	0.88 J	0.42 J	1.7	0.11 J	5.1
	ATR-MW59(29)-G060717	6/7/17	23,000	260	1,800	2 U	110	2.9	2.2	4.4	0.34 J	0.33	0.23	0.2 U	0.33
	ATR-MW59(29)-G060717R	6/7/17	23,000	260	1,600	2 U	110	2.8	2.2	4.5	0.34 J	0.33	0.24	0.2 U	0.37
	ATR-MW59(29)-G101117	10/11/17	24,000	560	260	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ATR-MW-59(29)-G022818	2/28/18	19,000	500	0.42	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
ATR-MW59(29)-G072418	7/24/18	18,000	430	0.54	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
ATR-MW59(29)-G072418R	7/24/18	17,000	400	0.50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

Table 4 (continued)
Summary of Dissolved Gases and Volatile Fatty Acid Results
Performed on the Groundwater Samples Collected from Performance Monitoring Wells
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

Treatment Area	Sample ID	Sample Date	Dissolved Gases			Volatile Fatty Acids									
			Methane	Ethane	Ethene	Lactic Acid	Acetic Acid	Propionic Acid	Formic Acid	Butyric Acid	Pyruvic Acid	i-Pentanoic Acid	Pentanoic Acid	i-Hexanoic Acid	Hexanoic Acid
			µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Source - Behind	ATR-PM2-G110512	11/5/12	10,000	180	1,700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-PM2-G020413	2/4/13	NA	NA	NA	0.10 U	0.58	0.56	0.032 J	0.21	0.15 U	0.15 U	0.070 U	0.050 U	0.10 U
	ATR-PM2-G030613	3/6/13	10,000	160	840	0.050 J	0.15	0.10	0.035 J	0.059	0.15 U	0.15 U	0.070 U	0.050 U	0.10 U
	ATR-PM2-G050313	5/3/13	7,800	120	620	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-PM2-G082715	8/27/15	15,000	300	2,900	0.11	39	19	0.25	1.3	0.2	0.056 J	0.15	0.2 U	0.5 U
	ATR-PM2-G022316	2/23/16	21,000	350	8,200	2.0 U	77	28	0.15	3.6	2.6	0.37	1.9	0.028 J	0.26
	ATR-PM2-G061616	6/16/16	22,000	280	10,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-PM2-G092916	9/29/16	21,000	360	7,800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-PM2-G121316	12/13/16	21,000	460	6,500	0.0087 J	2.3	0.017 J	0.050 J	0.0075 J	0.1 U	0.1 U	0.1 U	0.2 U	0.2 U
	ATR-PM2-G060717	6/7/17	21,000	550	3,700	0.2 U	8.7	1.6	0.13 J	0.1	0.2 J	0.052 J	0.078 J	0.2 U	0.2 U
	ATR-PM2-G101217	10/12/17	18,000	370	1,600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-PM-2-G032918	3/29/18	21,000	420	110	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-PM2-G072418	7/24/18	20,000	330	27	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-PM3-G110512	11/5/12	11,000	260	700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-PM3-G020413	2/4/13	NA	NA	NA	0.056 J	0.12	0.13	0.070 J	0.042 J	0.15 U	0.15 U	0.070 U	U	0.10 U
	ATR-PM3-G030513	3/5/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-PM3-G050313	5/3/13	10,000	260	680	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-PM3-G082715	8/27/15	4,000	23	800	360	260	53	31	180	23	1.5 U	0.72	0.2 U	0.75
	ATR-PM3-G022316	2/23/16	13,000	270	5,100	20 U	550	33	0.84 J	78 J	4.1 J	10 U	6.8 J	0.31	21
	ATR-PM3-G061716	6/17/16	17,000	170	4,600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ATR-PM3-G092916	9/29/16	17,000	180	4,400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
ATR-PM3-G121316	12/13/16	730	34	190	27 J	640	35 J	38 J	2,300	100 U	100 U	5.8 J	20 U	21	
ATR-PM3-G060717	6/7/17	19,000	240	5,300	20 U	840	120	14 J	150	50	4.1	33	0.9	36	
ATR-PM3-G101217	10/12/17	20,000	250	2,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
ATR-PM-3-G030118	3/1/18	11,000	230	1,100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
ATR-PM3-G072418	7/24/18	17,000	210	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
ATR-PM3-G072418R	7/24/18	15,000	180	1,900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Source - Inside	ATR-MW67(30)-G110712	11/7/12	1,700	75	6.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW67-G031516	3/15/16	1,700	140	1,100	0.017 J	1.1	0.15	0.024 J	0.015 J	0.032 J	0.1 U	0.1 U	0.2 J	0.2 U
	ATR-MW67-G062016	6/20/16	3,000	130	3,100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW67-G092916	9/29/16	3,800	170	4,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW67-G121216	12/12/16	6,100	180	3,900	2 U	180	2.3	1.3	4.1	0.25 J	0.26 J	0.12 J	2 U	0.31 J
	ATR-MW67-G060817	6/8/17	7,000	68	1,500	2 U	460	4.5	1.8 J	27	0.81 J	0.64 J	0.37 J	0.15 J	4.2
	ATR-MW67-G101217	10/12/17	9,000	44	2,600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW-67-G030118	3/1/18	10,000	54	2,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW67(30)-G072518	7/25/18	8,100	34	330	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 4 (continued)
Summary of Dissolved Gases and Volatile Fatty Acid Results
Performed on the Groundwater Samples Collected from Performance Monitoring Wells
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

Treatment Area	Sample ID	Sample Date	Dissolved Gases			Volatile Fatty Acids									
			Methane	Ethane	Ethene	Lactic Acid	Acetic Acid	Propionic Acid	Formic Acid	Butyric Acid	Pyruvic Acid	i-Pentanoic Acid	Pentanoic Acid	i-Hexanoic Acid	Hexanoic Acid
			µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Source - Inside	ATR-MW68-G031516	3/15/16	2,200	110	3,700	59	120	80	0.085 J	210	1.6	0.1 U	0.93	0.061 J	0.2 J
	ATR-MW68-G061716	6/17/16	5,000	96	6,700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW68-G092916	9/29/16	11,000	80	6,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW68-G121316	12/13/16	11,000	52	9,900	20 U	210	28	3.1	19	6.5	0.70 J	5.3	0.075 J	3.1
	ATR-MW68-G060817	6/8/17	6,500	17	3,400	2 U	580	77	9.9	60	12	2.5	10	0.69	11
	ATR-MW68-G101217	10/12/17	12,000	37	3,700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW-68-G030118	3/1/18	11,000	35	2,800	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW68(32)-G072518	7/25/18	10,000	36	2,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW71-G031516	3/15/16	18,000	180	13,000	13 J	92	44	2.2	12	8.5	1.0 U	6.8	0.18 J	1.9
	ATR-MW71-G062016	6/20/16	9,100	66	6,700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW71-G092916	9/29/16	9,400	70	5,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW71-G121216	12/12/16	3,300	33	1,700	200 U	740	430	58	410	63	3.8 J	120	0.66 J	160
	ATR-MW71-G060817	6/8/17	7,600	110	550	20 U	380	210	20	270	40	3.6	38	0.8	71
	ATR-MW71-G101217	10/12/17	6,800	180	89	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW-71-G030118	3/1/18	4,900	46	460	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW71(33)-G072518	7/25/18	10,000	83	150	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW72(32)-G030613	3/6/13	6,100	130	770	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW72-G031516	3/15/16	9,100	140	26,000	54	160	77	1.0 U	100	7.5	0.76 J	5.1	0.38	1.8
	ATR-MW72-G062016	6/20/16	6,600	81	790	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW72-G092916	9/29/16	7,900	60	8,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW72-G121316	12/13/16	6,500	42	4,700	20 U	380	150	5.0	69	8.5	0.97 J	26	0.090 J	18
	ATR-MW72-G060817	6/8/17	8,500	9.9	690	2 U	390	240	17	110	17	3.3	42	0.55	28
	ATR-MW72-G101217	10/12/17	9,800	31	72	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW-72-G030118	3/1/18	8,800	110	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW72(32)-G072518	7/25/18	7,500	17	0.53	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW76-G031516	3/15/16	1,700	41	150	1 J	38	12	0.088 J	1.3	0.064 J	0.1 J	0.02 J	0.2 U	0.024 J
	ATR-MW76-G062016	6/20/16	2,700	87	1,300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW76-G092916	9/29/16	6,000	110	2,600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW76-G121416	12/14/16	4,300	56	2,500	20 U	310	40	18	140	1.7	0.46 J	1.8	0.063 J	3.9
	ATR-MW76-G060817	6/8/17	12,000	91	5,800	2 U	800	53	14	110	15	3.2	12	0.61	31
ATR-MW76-G101217	10/12/17	4,100	17	870	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
ATR-MW-76-G030118	3/1/18	12,000	61	3,900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
ATR-MW76(30)-G072518	7/25/18	15,000	47	4,500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
ATR-MW76(30)-G072518R	7/25/18	15,000	45	4,700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

Table 4 (continued)
Summary of Dissolved Gases and Volatile Fatty Acid Results
Performed on the Groundwater Samples Collected from Performance Monitoring Wells
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

Treatment Area	Sample ID	Sample Date	Dissolved Gases			Volatile Fatty Acids									
			Methane	Ethane	Ethene	Lactic Acid	Acetic Acid	Propionic Acid	Formic Acid	Butyric Acid	Pyruvic Acid	i-Pentanoic Acid	Pentanoic Acid	i-Hexanoic Acid	Hexanoic Acid
			µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Source - Inside	ATR-MW77-G031516	3/15/16	2,100	13	33	0.027 J	0.078 J	0.1 U	0.016 J	0.1 U	0.1 U	0.1 U	0.1 U	0.2 U	0.2 U
	ATR-MW77-G062016	6/20/16	6,900	18	14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW77-G092916	9/29/16	4,200	19	6.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW77-G121416	12/14/16	7,400	21	310	2 U	18	19	1.2	5.2	0.28 J	1 U	3.2	2 U	3.5
	ATR-MW77-G060817	6/8/17	5,400	41	210	0.2 U	28	19	1.5 J	4.6	5.3	1 U	4.5	0.2 U	3.3
	ATR-MW77-G101217	10/12/17	6,600	66	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW-71(41)-G030118	3/1/18	8,400	140	160	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW71(41)-G072518	7/25/18	5,600	68	3.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW78-G031516	3/15/16	5,400	30	850	45.000	150	12	0.11 J	0.84	0.17	0.48	0.1	0.2 U	0.067 J
	ATR-MW78-G062016	6/20/16	18,000	170	28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW78-G092916	9/29/16	22,000	38	0.85	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW78-G121416	12/14/16	26,000	9.1	0.11	20 U	380	1.9 J	1.4	11	0.16 J	0.30 J	1 U	2 U	0.78 J
	ATR-MW78-G060817	6/8/17	23,000	1.8	0.1 U	0.12 J	270	2	0.56 J	7	0.2 J	0.28	0.09 J	0.2 U	0.52
	ATR-MW78-G101217	10/12/17	26,000	2.5	0.028 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW-78(35)-G030118	3/1/18	26,000	11	0.019 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW-78(35)-G030118R	3/1/18	21,000	9.3	0.028 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ATR-MW78(35)-G072518	7/25/18	18,000	53	0.012 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zone A	MTR-MW6C-G030513	3/5/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW6C-G082615	8/26/15	1,500	18	39	0.1 U	3.2	3.5	0.049 J	0.043 J	0.015 J	0.015 J	0.07 U	0.2 U	0.5 U
	ATR-MW6C-G022316	2/23/16	4,800	30	39	0.017 J	0.57	0.0041 J	0.028 J	0.006 J	0.1 U	0.1 U	0.1 U	0.2 U	0.2 U
	ATR-MW6C-G061616	6/16/16	11,000	81	68	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW6C-G092816	9/28/16	17,000	270	360	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW6C-G020117	2/1/17	20,000	220	250	0.0069 J	4.9	0.056 J	0.12	0.13	0.1 U	0.0098 J	0.1 U	0.2 U	0.0096 J
	ATR-MW6C-G060717	6/7/17	21,000	55	95	0.2 U	0.28	0.1 U	0.047 J	0.0057 J	0.1 U	0.1 U	0.1 U	0.2 U	0.2 U
	ATR-MW6C-G101117	10/11/17	22,000	62	170	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW6C-G101117R	10/11/17	20,000	58	160	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-6C-G022818	2/28/18	21,000	82	35	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-6C-G022818R	2/28/18	20,000	85	36	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW6C-G072618	7/26/18	18,000	47	50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW12-G082615	8/26/15	1,400	19	520	0.35 J	48	27	0.35	4	0.28	0.19	0.094	0.2 U	0.5 U
	ATR-MW12-G022416	2/24/16	13,000	15	880	0.038 J	130	1.2	0.081 J	3.4	0.2	0.28	0.043 J	0.2 U	0.37
	ATR-MW12-G061616	6/16/16	18,000	37	1,600	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW12-G092816	9/28/16	19,000	110	410	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW12-G020117	2/1/17	15,000	66	230	2 U	210	1.2 J	1.2	8.2	0.22	0.32	0.072 J	0.013 J	0.67
	ATR-MW12-G060717	6/7/17	17,000	19	2.1	2 U	97	1.3	0.51 J	1.2	1 U	0.22	0.037 J	0.2 U	0.034 J
	ATR-MW12-G101117	10/11/17	17,000	22	0.064 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-12-G022818	2/28/18	17,000	22	0.078 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ATR-MW12-G072618	7/26/18	9,200	23	0.019 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

Table 4 (continued)
Summary of Dissolved Gases and Volatile Fatty Acid Results
Performed on the Groundwater Samples Collected from Performance Monitoring Wells
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

Treatment Area	Sample ID	Sample Date	Dissolved Gases			Volatile Fatty Acids									
			Methane	Ethane	Ethene	Lactic Acid	Acetic Acid	Propionic Acid	Formic Acid	Butyric Acid	Pyruvic Acid	i-Pentanoic Acid	Pentanoic Acid	i-Hexanoic Acid	Hexanoic Acid
			µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Zone A	MTR-MW13-G092712	9/27/12	1,600	30	21	0.032 J	1.9	0.050 U	0.050 J	0.050 U	0.15 U	0.15 U	0.070 U	0.050 U	0.050 U
	ATR-MW13-G082615	8/26/15	850	28	220	1	46	49	0.18	0.32	0.39	0.054 J	0.07 U	0.2 U	0.5 U
	ATR-MW13-G030216	3/2/16	11,000	26	2,100	0.29 J	150	2.7	0.12 J	0.84 J	0.17 J	0.31 J	1 U	2 U	2 U
	ATR-MW13-G061616	6/16/16	18,000	130	1,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW13-G092816	9/28/16	20,000	310	280	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW13-G020117	2/1/17	16,000	180	360	0.030 J	0.39	0.014 J	0.11	0.0094 J	0.1 U	0.1 U	0.1 U	0.2 U	0.2 U
	ATR-MW13-G060717	6/7/17	11,000	45	90	0.036 J	0.55	0.1 U	0.2 U	0.0083 J	0.1 U	0.1 U	0.1 U	0.2 U	0.2 U
	ATR-MW13-G101117	10/11/17	15,000	62	170	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-13-G022818	2/28/18	17,000	56	46	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW13-G072618	7/26/18	19,000	29	3.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW62-G082715	8/27/15	2,000	60	420	0.51	21	3.8	0.2	2.4	0.042 J	0.15 U	0.047 J	0.2 U	0.5 U
	ATR-MW62-G022316	2/23/16	17,000	200	4,700	2.0 U	220	1.6	0.14 J	19	0.33	0.25	0.11	0.011 J	2.7
	ATR-MW62(36)-G061616	6/16/16	17,000	140	3,400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW62-G092916	9/29/16	17,000	250	2,100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW62-G020117	2/1/17	24,000	67	1,400	2 U	310	2.6 J	1.4	32	0.36	0.36	0.31	0.050 J	5.6
	ATR-MW62(36)-G060717	6/7/17	20,000	87	160	2 U	63	0.48 J	0.24	4	0.063 J	0.087 J	0.04 J	0.2 U	0.68
	ATR-MW62-G101117	10/11/17	21,000	78	1.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW-62(36)-G022818	2/28/18	21,000	80	0.061 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW62(36)-G072418	7/24/18	11,000	52	0.26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW20(35)-G082715	8/27/15	1,900	30	110	0.028 J	13	1.1	0.1	0.08	0.028 J	0.072 J	0.023 J	0.2 U	0.5 U
	ATR-MW20(35)-G082715R	8/27/15	2,000	31	120	0.053 J	12	0.86	0.11	0.056	0.029 J	0.073 J	0.022 J	0.2 U	0.5 U
	ATR-MW20(35)-G022316	2/23/16	22,000	50	210	20 U	270	2.2	0.077 J	0.85 J	0.19	0.22	0.1 U	0.022 J	0.011 J
	ATR-MW20(35)-G022316R	2/23/16	22,000	51	220	0.03 J	250	2	0.1 J	0.85 J	0.085 J	0.13	0.1 U	0.02 J	0.011 J
	ATR-MW20(35)-G061616	6/16/16	18,000	130	320	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW20(35)-G061616R	6/16/16	18,000	130	300	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW20(35)-G092816	9/28/16	16,000	500	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW20(35)-G092816R	9/28/16	17,000	510	400	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW20(35)-G020117	2/1/17	24,000	240	60	0.77	96	1.0	0.66	2.4	0.076 J	0.12	0.023 J	0.018 J	0.086 J
	ATR-MW20(35)-G020117R	2/1/17	22,000	220	54	2 U	96	0.99 J	0.63	2.3	0.074 J	0.12	0.020 J	0.018 J	0.076 J
	ATR-MW20(35)-G060717	6/7/17	21,000	110	0.079 J	0.021 J	0.3	0.012 J	0.061 J	0.007 J	0.1 U	0.1 U	0.1 U	0.2 U	0.2 U
ATR-MW20(35)-G060717R	6/7/17	21,000	120	0.095 J	0.2 U	0.26	0.0086 J	0.045 J	0.1 U	0.1 U	0.1 U	0.1 U	0.2 U	0.2 U	
ATR-MW20(35)-G101117	10/11/17	20,000	60	0.19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
ATR-MW-20(35)-G022818	2/28/18	17,000	44	0.054 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
ATR-MW20(35)-G072418	7/24/18	19,000	59	0.024 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

Table 4 (continued)
Summary of Dissolved Gases and Volatile Fatty Acid Results
Performed on the Groundwater Samples Collected from Performance Monitoring Wells
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

Treatment Area	Sample ID	Sample Date	Dissolved Gases			Volatile Fatty Acids									
			Methane	Ethane	Ethene	Lactic Acid	Acetic Acid	Propionic Acid	Formic Acid	Butyric Acid	Pyruvic Acid	i-Pentanoic Acid	Pentanoic Acid	i-Hexanoic Acid	Hexanoic Acid
			µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Zone A	ATR-MW20(51)-G082715	8/27/15	1,500	44	270	4.3	600	470	3.2 J	64	2.6	1.5	0.39 J	0.2 U	0.48 J
	ATR-MW20(51)-G022316	2/23/16	31,000	21	0.54	20 U	460	12	0.23 J	25	1.5	0.92 J	2.4	0.16 J	4.1
	ATR-MW20(51)-G061616	6/16/16	23,000	7.5	0.078	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW20(51)-G092816	9/28/16	23,000	19	0.022 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW20(51)-G020117	2/1/17	21,000	110	0.079 J	0.021 J	0.3	0.012 J	0.061 J	0.007 J	0.1 U	0.1 U	0.1 U	0.2 U	0.2 U
	ATR-MW20(51)-G060717	6/7/17	25,000	120	0.025 J	0.2 U	0.37	0.0096 J	0.057 J	0.1 U	0.1 U	0.1 U	0.1 U	0.2 U	0.2 U
	ATR-MW20(51)-G101117	10/11/17	28,000	110	0.0057 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW-20(51)-G022818	2/28/18	19,000	83	0.023 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW20(51)-G072418	7/24/18	13,000	63	0.024 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW82-G082615	8/26/15	1,400	1.4	26	160	670	520	4.5 J	270	5.9	1.6	3.1	0.25	0.5 U
	ATR-MW82-G022316	2/23/16	24,000	22	140	20 U	590	47 J	0.5 J	20	4.0	1.7	4.1	0.11 J	1.4
	ATR-MW82-G061616	6/16/16	25,000	81	0.31	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW82-G092816	9/28/16	27,000	34	0.024 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW82-G020117	2/1/17	34,000	33	0.015 J	2 U	170	240	2.0	2.6	3.2	1.3	4.0	0.21	0.10 J
	ATR-MW82-G060717	6/7/17	28,000	40	0.1 U	0.2 U	0.065 J	0.1 U	0.084 J	0.0072 J	0.1 U	0.1 U	0.1 U	0.2 U	0.2 U
	ATR-MW82-G101117	10/11/17	29,000	81	0.0059 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW-82(58)-G022818	2/28/18	28,000	99	0.033 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW82(58)-G072418	7/24/18	28,000	69	0.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-OW1S-G082715	8/27/15	2,800	18	83	0.1 U	2.2	0.04 J	0.047 J	0.089	0.15 U	0.15 U	0.07 U	0.2 U	0.5 U
	ATR-OW1(28)-G022416	2/24/16	7,600	39	360	0.02 J	0.78	0.0096 J	0.024 J	0.014 J	0.1 U	0.1 U	0.1 U	0.2 U	0.2 U
	ATR-OU1(28)-G061616	6/16/16	14,000	58	320	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-OW1(28)-G092816	9/28/16	12,000	67	170	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-OW1(28)-G013117	1/31/17	12,000	230	220	0.011 J	3.2	0.64	0.078 J	0.1 U	0.1 U	0.1 U	0.1 U	0.2 U	0.2 U
	ATR-OW1(28)-G060717	6/7/17	16,000	140	170	0.2 U	7.1	0.1 U	0.055 J	0.0059 J	0.013 J	0.1 U	0.1 U	0.2 U	0.2 U
	ATR-OW1(28)-G101117	10/11/17	18,000	170	62	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-OW-1(28)-G022818	2/28/18	12	0.26	0.014 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-OW1(28)-G072418	7/24/18	14,000	150	53	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-OW1D-G082715	8/27/15	1,400	5.1	150	1 U	280	460	2.1	26	1.6	0.5 J	0.85	0.2 U	0.21 J
	ATR-OW1(39)-G022916	2/29/16	23,000	95	1.8	0.05 J	10	28	0.17	0.49	0.55	0.13	0.57	0.2 U	0.035 J
	ATR-OU1(39)-G061616	6/16/16	20,000	160	0.012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ATR-OW1(39)-G092816	9/28/16	10,000	210	17	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
ATR-OW1(39)-G020117	2/1/17	25,000	120	0.0045 J	0.015 J	0.16	0.056 J	0.056 J	0.017 J	0.1 U	0.1 U	0.1 U	0.2 U	0.2 U	
ATR-OW1(39)-G060717	6/7/17	12,000	170	0.1 U	0.02 J	0.045 J	0.1 U	0.04 J	0.1 U	0.1 U	0.1 U	0.1 U	0.2 U	0.2 U	
ATR-OW1(39)-G101117	10/11/17	7,600	230	18	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
ATR-OW-1(39)-G022818	2/28/18	3,500	300	93	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
ATR-OW1(39)-G072418	7/24/18	2,700	200	26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

Table 4 (continued)
Summary of Dissolved Gases and Volatile Fatty Acid Results
Performed on the Groundwater Samples Collected from Performance Monitoring Wells
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

Treatment Area	Sample ID	Sample Date	Dissolved Gases			Volatile Fatty Acids									
			Methane	Ethane	Ethene	Lactic Acid	Acetic Acid	Propionic Acid	Formic Acid	Butyric Acid	Pyruvic Acid	i-Pentanoic Acid	Pentanoic Acid	i-Hexanoic Acid	Hexanoic Acid
			µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Zone B	MTR-MW14-G092712	9/27/12	62	0.31	0.18	0.10 U	0.070 U	0.050 U	0.10 U	0.050 U	0.15 U	0.15 U	0.070 U	0.050 U	0.050 U
	ATR-MW14-G100815	10/8/15	43	0.2	0.09 J	1.8	9.4	14	0.79	0.18	0.26	0.1 U	0.1 U	0.2 U	0.2 U
	ATR-MW14-G022916	2/29/16	440	0.94	120	2.0 U	130	210	1.4	4.9 J	1.7	0.39 J	1.7	0.013 J	0.049 J
	ATR-MW14-G061516	6/15/16	3,800	1.1	1,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW14-G092816	9/28/16	6,400	10	950	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW14-G020117	2/1/17	13,000	31	680	0.38 J	250	16	1.7	3.2	1.1	0.43	0.53	0.0043 J	0.052 J
	ATR-MW14-G060717	6/7/17	10,000	200	290	2 U	48	0.34 J	0.15 J	0.1	0.041 J	0.077 J	0.027 J	0.2 U	0.2 U
	ATR-MW14-G101017	10/10/17	30,000	160	5.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW-14-G022818	2/28/18	17,000	340	120	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW14-G072418	7/24/18	20,000	650	99	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW24 (24.9)-G100815	10/8/15	1.4	0.0039	0.0074	0.021 J	0.034 J	0.1 U	0.019 J	0.017 J	0.1 U	0.1 U	0.1 U	0.2 U	0.2 U
	ATR-MW24 (24.9)-G022916	2/29/16	7.0	0.0093 J	0.014 J	0.014 J	0.08 J	0.02 J	0.16	0.056 J	0.1 U	0.1 U	0.1 U	0.2 U	0.2 U
	ATR-MW24(24.9)-G061516	6/15/16	13	0.0069	0.0083	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW24(24.9)-G092816	9/28/16	180	0.0093 J	0.016 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW24(24.9)-G013117	1/31/17	200	0.023 J	0.031 J	0.013 J	0.41	0.068 J	0.090 J	0.012 J	0.1 U	0.1 U	0.1 U	0.2 U	0.012 J
	ATR-MW24(24.9)-G060617	6/6/17	250	0.027 J	0.035 J	0.2 U	0.044 J	0.0063 J	0.037 J	0.1 U	0.1 U	0.1 U	0.1 U	0.2 U	0.2 U
	ATR-MW24(24.9)-G101017	10/10/17	49	0.039 J	0.11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW-24(24.9)-G022718	2/27/18	5,500	0.078 J	0.032 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW24(24.9)-G072318	7/23/18	3,500	0.030 J	0.016 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW24 (55.9)-G100815	10/8/15	27	0.19	0.1	0.025 J	0.03 J	0.1 U	0.031 J	0.014 J	0.1 U	0.1 U	0.1 U	0.2 U	0.2 U
	ATR-MW24 (55.9)-G022916	2/29/16	25	0.19	0.076 J	0.013 J	0.025 J	0.0029 J	0.037 J	0.0074 J	0.1 U	0.1 U	0.1 U	0.2 U	0.2 U
	ATR-MW24(55.4)-G061516	6/15/16	19	0.15	0.089	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW24(55.4)-G092816	9/28/16	22	0.17	0.086 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW24(55.4)-G013117	1/31/17	83	2.1	1.0	0.14 J	160	150	0.62 J	2.4	0.37	0.091 J	0.074 J	0.2 U	0.2 U
	ATR-MW24(55.4)-G060717	6/7/17	11,000	24	87	2 U	59	91	0.35 J	0.31 J	0.63 J	0.42	0.28	0.2 U	0.056 J
	ATR-MW24(55.4)-G101017	10/10/17	20,000	56	0.34	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW-24(55.4)-G022718	2/27/18	24,000	76	5.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW24(55.4)-G072318	7/23/18	17,000	110	45	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW24(55.4)-G072318R	7/23/18	17,000	110	45	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-OW2 (33)-G100815	10/8/15	1,800	24	370	2 U	64	52	0.3	6	0.5	0.23	0.4	0.2 U	0.2 U
	ATR-OW2 (33)-G022916	2/29/16	16,000	360	650	2 U	330	100	0.39 J	5.6 J	3.5	2.0	4.7	0.05 J	0.22
	ATR-OW2(33)-G061516	6/15/16	11,000	51	1,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-OW2(33)-G92716	9/27/16	22,000	200	870	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ATR-OW2(33)-G013117	1/31/17	24,000	180	960	0.015 J	8.3	0.97	0.11	0.22	0.025 J	0.040 J	0.0088 J	0.2 U	0.034 J	
ATR-OW2(33)-G060617	6/6/17	29,000	200	11	2 U	26	0.22	0.14 J	0.26	0.017 J	0.024 J	0.014 J	0.2 U	0.2 U	
ATR-OW2(33)-G101117	10/11/17	24,000	120	0.016 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
ATR-OW-2(33)-G022718	2/27/18	22,000	76	0.62	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
ATR-OW2(33)-G072318	7/23/18	24,000	96	0.10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

Table 4 (continued)
Summary of Dissolved Gases and Volatile Fatty Acid Results
Performed on the Groundwater Samples Collected from Performance Monitoring Wells
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

Treatment Area	Sample ID	Sample Date	Dissolved Gases			Volatile Fatty Acids										
			Methane	Ethane	Ethene	Lactic Acid	Acetic Acid	Propionic Acid	Formic Acid	Butyric Acid	Pyruvic Acid	i-Pentanoic Acid	Pentanoic Acid	i-Hexanoic Acid	Hexanoic Acid	
			µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Zone B	ATR-OW2 (53)-G100815	10/8/15	770	1.3	16	1.3 J	250	650	2.5	15	5.2	0.44 J	1.4	0.2 U	0.2 U	
	ATR-OW2 (53)-022916	2/29/16	6,500	16	1,000	20 U	480	390	1.3 J	2.1 J	4.9	4.2	1.5	0.023 J	0.043 J	
	ATR-OU2(53)-G061616	6/16/16	24,000	110	310	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-OW2(53)-G092716	9/27/16	28,000	150	9.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-OW2(53)-G013117	1/31/17	27,000	57	0.0091 J	0.49	100	90	0.93	2.6	0.92	0.39	1.6	0.11 J	0.030 J	
	ATR-OW2(53)-G060617	6/6/17	28,000	26	0.0096 J	0.2 U	0.092 J	0.0061 J	0.089 J	0.1 U	0.1 U	0.1 U	0.1 U	0.2 U	0.2 U	
	ATR-OW2(53)-G101117	10/11/17	30,000	14	0.005 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-OW-2(53)-G022718	2/27/18	22,000	9.9	0.0090 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-OW2(55)-G072318	7/23/18	24,000	11	0.10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-OW3 (35)-G100715	10/7/15	1,500	1.8	6.2	2 U	110	170	0.5 J	1.2	1.2	0.56	0.55	0.2 U	0.43	
	ATR-OW3 (35)-G022916	2/29/16	24,000	5.9	16	0.031 J	32	0.41 J	0.052 J	0.015 J	0.038 J	0.10 U	0.10 U	0.20 U	0.20 U	
	ATR-OW3(35)-G061516	6/15/16	13,000	24	23	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-OW3(35)-G092716	9/27/16	12,000	48	36	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-OW3(35)-G013117	1/31/17	17,000	42	14	0.0096 J	0.14	0.024 J	0.074 J	0.0091 J	0.1 U	0.1 U	0.1 U	0.2 U	0.2 U	
	ATR-OW3(35)-G060717	6/7/17	8,400	15	6.3	0.016 J	0.074 J	0.013 J	0.054 J	0.0063 J	0.1 U	0.1 U	0.1 U	0.2 U	0.2 U	
	ATR-OW3-G101117	10/11/17	4,200	36	22	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-OW-3(35)-G022718	2/27/18	6,300	55	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-OW3(35)-G072418	7/24/18	3,400	33	6.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-OW3 (55)-G100715	10/7/15	44	2.7	0.54	80	330	34	120	8.7	24	0.38	0.1 U	0.2 U	0.29	
	ATR-OW3 (55)-G100715R	10/7/15	57	2.6	0.53	83	340	36	120	8.6	24	0.38	0.1 U	0.2 U	0.28	
	ATR-OW3(55)-G022916	2/29/16	14,000	3.2	6.5	2.5	490	790	3.7 J	5.0 J	4.7	2.2	2.7	0.2 U	0.49	
	ATR-OW3(55)-G022916R	2/29/16	17,000	3.4	8.5	0.98 J	420	710	2.2 J	5.0 J	4.4	2.1	2.7	0.2 U	0.50	
ATR-OW3(55)-G061516	6/15/16	24,000	33	30	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
ATR-OW3(55)-G092716	9/27/16	24,000	66	80	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
ATR-OW3(55)-G060717	6/7/17	30,000	120	210	20 U	740	190	5.9	28	17	3.6	12	0.3	6.3		
ATR-OW3(55)-G101017	10/10/17	27,000	230	490	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
ATR-OW-3(55)-G022718	2/27/18	28,000	290	280	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
ATR-OW3(55)-G072418	7/24/18	23,000	320	520	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zone C	ATR-MW15-G101315	10/13/15	2,400	5.2	260	26	180	55	56	0.62 J	1.5	0.1	0.18	0.2 U	0.2 U	
	ATR-MW15-030116	3/1/16	1,500	11	170	0.19 J	1,200	1,100	4 J	42.0	3.7 J	1.2 J	6.5 J	2 U	0.59 J	
	ATR-MW15-G061516	6/15/16	4,200	9.2	170	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	ATR-MW15-G092716	9/27/16	11,000	20	1,700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	ATR-MW15-G013117	1/31/17	19,000	56	4,400	1.6 J	880	450	3.9 J	50	17	3.2	18	0.31	3.3	
	ATR-MW15-G060617	6/6/17	20,000	96	4,200	20 U	850	250	3.6 J	55	39	3.3	25	0.31	7.6	
	ATR-MW15-G101017	10/10/17	32,000	120	3,700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
	ATR-MW-15-G022818	2/28/18	21,000	110	2,700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
ATR-MW15-G072318	7/23/18	20,000	340	1,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		

Table 4 (continued)
Summary of Dissolved Gases and Volatile Fatty Acid Results
Performed on the Groundwater Samples Collected from Performance Monitoring Wells
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

Treatment Area	Sample ID	Sample Date	Dissolved Gases			Volatile Fatty Acids									
			Methane	Ethane	Ethene	Lactic Acid	Acetic Acid	Propionic Acid	Formic Acid	Butyric Acid	Pyruvic Acid	i-Pentanoic Acid	Pentanoic Acid	i-Hexanoic Acid	Hexanoic Acid
			µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Zone C	MTR-MW25(16.4)-G092712	9/27/12	1,300	20	13	0.030 J	0.038 J	0.050 U	0.068 J	0.050 U	0.15 U	0.15 U	0.070 U	0.050 U	0.050 U
	MTR-MW25(16.4)-101315	10/13/15	1,200	13	40	0.027 J	0.035 J	0.1 U	0.036 J	0.02 J	0.1 U	0.1 U	0.1 U	0.2 U	0.2 U
	ATR-MW25(16.4)-030116	3/1/16	1,700	8.5	1,000	0.44 J	51	4.5 J	0.16 J	0.22 J	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
	ATR-MW25(16.4)-G061516	6/15/16	12,000	140	920	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW25(16.4)-G092716	9/27/16	18,000	370	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW25(16.4)-G013117	1/31/17	25,000	280	18	0.80 J	48	9.2	0.29	0.44	0.16	0.14	0.068 J	0.2 U	0.2 U
	ATR-MW25(16.4)-G060617	6/6/17	27,000	240	6.3	0.2 U	0.2	0.011 J	0.044 J	0.1 U	0.1 U	0.1 U	0.1 U	0.2 U	0.2 U
	ATR-MW25(16.4)-G060617R	6/6/17	26,000	240	6.3	0.2 U	0.22	0.1 U	0.049 J	0.1 U	0.1 U	0.1 U	0.1 U	0.2 U	0.2 U
	ATR-MW25(16.4)-G101017	10/10/17	25,000	150	1.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW-25(16.4)-G022718	2/27/18	20,000	100	0.24	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW25(16.4)-G072318	7/23/18	23,000	92	0.25	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW25(32.6)-G101315	10/13/15	3,100	18	370	0.02 J	1.4	0.15	1.5	0.023 J	0.1 U	0.1 U	0.1 U	0.2 U	0.2 U
	ATR-MW25(32.6)-G030116	3/1/16	10,000	45	1,400	0.15 J	780	730	2.6 J	33	5.6 J	1.9 J	35	0.18 J	4.2
	ATR-MW25(32.6)-G061516	6/15/16	18,000	70	1,200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW25(32.6)-G092716	9/27/16	24,000	450	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW25(32.6)-G013117	1/31/17	31,000	330	0.77	0.63	150	2.0	0.65	0.22	0.046 J	0.30	0.1 U	0.094 J	0.2 U
	ATR-MW25(32.6)-G060617	6/6/17	28,000	33	0.028 J	2 U	140	51	0.92 J	0.77 J	3.3	1.0	0.68	0.5	0.2 U
	ATR-MW25(32.6)-G101017	10/10/17	28,000	49	0.0067 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW-25(32.6)-G022718	2/27/18	23,000	78	0.011 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW25(32.6)-G072318	7/23/18	30,000	92	0.38	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW25(45.2)-G101315	10/13/15	600	4.5	12	0.017 J	0.024 J	0.1 U	0.056 J	0.0091 J	0.1 U	0.1 U	0.1 U	0.2 U	0.2 U
	ATR-MW25(45.2)-G030116	3/1/16	1,100	10	84	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW25(45.2)-G061516	6/15/16	3,000	8.6	96	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW25(45.2)-G092716	9/27/16	9,800	12	1,900	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW25(45.2)-G013117	1/31/17	21,000	65	1,600	20 U	970	390	3.6 J	32	14	3.0	20	0.22	2.4
	ATR-MW25(45.2)-G060617	6/6/17	18,000	310	400	20 U	830	130	4.8	17	11	3.6	8.4	0.24	1.3
	ATR-MW25(45.2)-G101017	10/10/17	31,000	400	71	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW-25(45.2)-G022718	2/27/18	26,000	320	0.027 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW25(45.2)-G072418	7/24/18	26,000	270	2.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-OW4(35)-G101315	10/13/15	380	22	6.5	55	400	94	350	6.1	11	0.064 J	1.6	0.2 U	0.66
	ATR-OW4(35)-G030116	3/1/16	6,600	65	29	0.18 J	900	610	1.8 J	36	4.6 J	2.6	17	2.0 U	2.5
	ATR-OW4(35)-G061516	6/15/16	30,000	7.5	730	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ATR-OW4(35)-G092716	9/27/16	20,000	8.4	760	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
ATR-OW4(35)-G013117	1/31/17	16,000	48	610	66	1,500	750	8.3 J	370	17	4.6 J	20	1.7 J	14	
ATR-OW4(35)-G060717	6/7/17	23,000	39	8.3	2 U	500	170	5.5 J	39	28	5.2	14	0.7	9.8	
ATR-OW4(35)-G101017	10/10/17	29,000	64	0.34	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
ATR-OW-4(35)-G022818	2/28/18	23,000	18	0.092 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
ATR-OW4(35)-G072318	7/23/18	20,000	43	0.019 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

Table 4 (continued)
Summary of Dissolved Gases and Volatile Fatty Acid Results
Performed on the Groundwater Samples Collected from Performance Monitoring Wells
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

Treatment Area	Sample ID	Sample Date	Dissolved Gases			Volatile Fatty Acids									
			Methane	Ethane	Ethene	Lactic Acid	Acetic Acid	Propionic Acid	Formic Acid	Butyric Acid	Pyruvic Acid	i-Pentanoic Acid	Pentanoic Acid	i-Hexanoic Acid	Hexanoic Acid
			µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Zone C	ATR-OW4(54)-G101315	10/13/15	120	0.22	0.052 J	0.2 U	1.3	0.36	0.034 J	0.031 J	0.1 U	0.1 U	0.1 U	0.2 U	0.2 U
	ATR-OW4(54)-G030116	3/1/16	260	0.31	0.094 J	0.52 J	8.0	5.2	0.15 J	0.14 J	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
	ATR-OW4(54)-G061516	6/15/16	730	0.24	0.13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-OW4(54)-G092716	9/27/16	6,800	0.25	0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-OW4(54)-G013117	1/31/17	14,000	0.40	0.10	2 U	160	460	2.0	7.1	3.9	1.6	3.0	0.015 J	0.021 J
	ATR-OW4(54)-G060617	6/6/17	24,000	0.19	0.072 J	2 U	440	400	2.3	9.0	4.0	0.89	3.3	0.2 U	0.063 J
	ATR-OW4(54)-G101017	10/10/17	30,000	1.1	1.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-OW-4(54)-G022818	2/28/18	28,000	2.2	0.91	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ATR-OW4(54)-G072418	7/24/18	24,000	2.7	0.10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
Zone D	ATR-MW16-G100715	10/7/15	8,400	45	18	0.026 J	0.21	0.012 J	0.042 J	0.02 J	0.1 U	0.1 U	0.1 U	0.2 U	0.2 U
	ATR-MW16-G030116	3/1/16	4.6	0.026 J	0.021 J	0.015 J	0.34	0.0056 J	0.025 J	0.0087 J	0.1 U	0.1 U	0.1 U	0.2 U	0.2 U
	ATR-MW16-G061416	6/14/16	12,000	100	88	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW16-G092616	9/26/16	22,000	84	140	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW16-G013017	1/30/17	30,000	170	180	0.26 J	140	79	1.3	4.2	1.9	0.53	2.4	0.052 J	0.14 J
	ATR-MW16-G060617	6/6/17	21,000	160	160	2 U	200	120	1.6 J	7.2	2.6	0.79	3.1	0.072 J	0.25
	ATR-MW16-G101017	10/10/17	30,000	200	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW-16-G022718	2/27/18	13,000	190	160	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW16-G071918	7/19/18	24,000	380	0.10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW17-G100715	10/7/15	3.8	0.041	0.016	0.026 J	0.037 J	0.1 U	0.033 J	0.017 J	0.1 U	0.1 U	0.1 U	0.2 U	0.2 U
	ATR-MW17-G030116	3/1/16	11,000	330	150	0.0085 J	0.028 J	0.0031 J	0.028 J	0.0085 J	0.1 U	0.1 U	0.1 U	0.2 U	0.2 U
	ATR-MW17-G061416	6/14/16	3.1	0.046	0.012	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW17-G092616	9/26/16	2.2	0.023 J	0.10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW17-G013017	1/30/17	1.3	0.035 J	0.019 J	0.26 J	1.0	6.4	0.080 J	0.012 J	0.0096 J	0.1 U	0.1 U	0.2 U	0.2 U
	ATR-MW17-G060617	6/6/17	10	0.026 J	0.037 J	0.2 U	0.25	0.037 J	0.2 U	0.0065 J	0.1 U	0.1 U	0.1 U	0.2 U	0.2 U
	ATR-MW17-G101017	10/10/17	410	0.027 J	0.036 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW-17-G022718	2/27/18	3,400	0.24	0.16	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW17-G071918	7/19/18	4,500	0.10 U	0.048 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW17-G071918R	7/19/18	4,800	0.10 U	0.055 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	MTR-MW26(17.5)-G092712	9/27/12	790	25	3.2	0.10 U	0.0083 J	0.050 U	0.037 J	0.050 U	0.15 U	0.15 U	0.070 U	0.050 U	0.050 U
	MTR-MW26(17.5)-G030613	3/6/13	NA	NA	NA	0.036 J	0.91	0.15	0.047 J	0.050 U	0.15 U	0.15 U	0.070 U	0.050 U	0.11
	MTR-MW26(17.5)-G050313	5/3/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW26 (17.5)-G100715	10/7/15	4,100	27	260	2 U	64	31	0.4	1.3	0.22	0.18	0.2	0.2 U	0.3
	ATR-MW26(17.5)-G030116	3/1/16	15,000	430	190	0.44 J	34	2.3	0.15 J	0.12 J	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
	ATR-MW26(17.5)-G061416	6/14/16	20,000	340	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW26(17.5)-G092616	9/26/16	16,000	250	100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW26(17.5)-G013017	1/30/17	19,000	220	3.0	0.012 J	0.29	0.017 J	0.069 J	0.0072 J	0.1 U	0.1 U	0.1 U	0.2 U	0.2 U
	ATR-MW26(17.5)-G060617	6/6/17	25,000	180	0.0042 J	0.012 J	0.049 J	0.1 U	0.044 J	0.1 U	0.1 U	0.1 U	0.1 U	0.2 U	0.2 U
ATR-MW26(17.5)-G100917	10/9/17	21,000	150	0.21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
ATR-MW-26(17.5)-G022618	2/26/18	19,000	140	0.015 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
ATR-MW26(17.5)-G072018	7/20/18	21,000	120	0.010 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

Table 4 (continued)
Summary of Dissolved Gases and Volatile Fatty Acid Results
Performed on the Groundwater Samples Collected from Performance Monitoring Wells
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

Treatment Area	Sample ID	Sample Date	Dissolved Gases			Volatile Fatty Acids									
			Methane	Ethane	Ethene	Lactic Acid	Acetic Acid	Propionic Acid	Formic Acid	Butyric Acid	Pyruvic Acid	i-Pentanoic Acid	Pentanoic Acid	i-Hexanoic Acid	Hexanoic Acid
			µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Zone D	MTR-MW26(28.8)-G092712	9/27/12	120	2.6	0.043	0.036 J	0.070 U	0.050 U	0.069 J	0.050 U	0.15 U	0.15 U	0.070 U	0.050 U	0.050 U
	MTR-MW26(28.8)-G092712R	9/27/12	110	2.5	0.037	0.10 U	0.012 J	0.050 U	0.055 J	0.050 U	0.15 U	0.15 U	0.070 U	0.050 U	0.050 U
	ATR-MW26(28.8)-G030613	3/6/13	NA	NA	NA	1.0 U	170	100	1.4	1.7	0.84	0.54	0.16	0.050 U	0.10 U
	ATR-MW26(28.8)-G050313	5/3/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW26 (28.8)-G100715	10/7/15	15,000	62	8.6	2 U	25	48	0.21	0.79	0.24	0.098 J	0.2	0.2 U	0.2 U
	ATR-MW26(28.8)-030116	3/1/16	31,000	36	0.0086 J	0.011 J	4.9	2.5	0.16	0.018 J	0.045 J	0.1 U	0.0097 J	0.2 U	0.2 U
	ATR-MW26(28.8)-G061416	6/14/16	28,000	57	0.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW26(28.8)-G092616	9/26/16	22,000	90	0.10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW26(28.8)-G013017	1/30/17	27,000	49	0.31	0.16 J	200	13	0.87	5.0	0.51	0.50	0.42	0.033 J	0.46
	ATR-MW26(28.8)-G060617	6/6/17	27,000	19	0.1 U	2 U	110	1.3	0.47 J	0.85 J	0.07 J	0.26	0.023 J	0.2 U	0.11 J
	ATR-MW26(28.8)-G100917	10/9/17	28,000	30	0.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW-26(28.8)-G022618	2/26/18	30,000	77	0.021 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW26(28.8)-G072018	7/20/18	22,000	83	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW26 (58.8)-G100715	10/7/15	77	1.3	0.66	0.017 J	0.026 J	0.1 U	0.023 J	0.0074 J	0.1 U	0.1 U	0.1 U	0.2 U	0.2 U
	ATR-MW26(58.8)-G030116	3/1/16	240	1.8	0.58	0.47 J	54	62	0.46 J	0.46 J	0.27 J	1.0 U	0.14 J	2.0 U	2.0 U
	ATR-MW26(58.2)-G061416	6/14/16	810	2.2	1.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW26(58.2)-G092616	9/26/16	9,500	3.1	10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW26(58.8)-G013017	1/30/17	25,000	15	50	0.28	140	49	0.98	3.3	0.99	0.38	1.5	0.028 J	0.23
	ATR-MW26(58.8)-G013017R	1/30/17	23,000	14	49	0.26	140	50	0.98	3.3	1.0	0.39	1.5	0.035 J	0.24
	ATR-MW26(58.2)-G060617	6/6/17	23,000	33	89	2 U	220	5.6 J	0.84 J	1.6	0.99 J	0.5	0.2	0.2 U	0.057 J
	ATR-MW26(58.2)-G101017	10/10/17	26,000	39	33	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW-26(58.2)-G022618	2/26/18	11,000	21	0.025 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-MW26(58.2)-G072018	7/20/18	6,700	11	0.10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ZVI-2(17.5)-G121812	12/18/12	NA	NA	NA	1 U	22	18	0.36	0.088	0.034 J	0.15 U	0.07 U	0.05 U	0.1 U
	ZVI-2(17.5)-G030613	3/6/13	930	16	4.6	0.067 J	0.23	0.0096 J	0.023 J	0.033 J	0.15 U	0.15 U	0.070 U	0.050 U	0.10 U
	ZVI-2(17.5)-G050313	5/3/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-ZVI2 (17.5)-G100715	10/7/15	3,200	38	320	2 U	34	15	0.22	0.36	0.086 J	0.11	0.09 J	0.2 U	0.2 U
	ATR-ZVI2(17.5)-030216	3/2/16	13,000	300	180	0.016 J	0.27	0.0035 J	0.047 J	0.0079 J	0.1 U	0.1 U	0.1 U	0.2 U	0.2 U
	ATR-ZVI2(17.5)-G061416	6/14/16	18,000	350	110	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-ZVI2(17.5)-G092616	9/26/16	19,000	380	19	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ATR-ZVI2(17.5)-G013117	1/31/17	25,000	200	0.012 J	2 U	23	0.20 J	0.074 J	0.11	0.010 J	0.048 J	0.1 U	0.2 U	0.2 U	
ATR-ZVI2(17.5)-G060617	6/6/17	27,000	200	0.0042 J	0.2 U	0.054 J	0.1 U	0.058 J	0.1 U	0.1 U	0.1 U	0.1 U	0.2 U	0.2 U	
ATR-MWZVI2(17.5)-G100917	10/9/17	23,000	170	0.0072 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
ATR-ZVI-2(17.5)-G022618	2/26/18	21,000	170	0.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
ATR-ZVI2(17.5)-G071918	7/19/18	22,000	130	0.0087 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

Table 4 (continued)
Summary of Dissolved Gases and Volatile Fatty Acid Results
Performed on the Groundwater Samples Collected from Performance Monitoring Wells
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

Treatment Area	Sample ID	Sample Date	Dissolved Gases			Volatile Fatty Acids									
			Methane	Ethane	Ethene	Lactic Acid	Acetic Acid	Propionic Acid	Formic Acid	Butyric Acid	Pyruvic Acid	i-Pentanoic Acid	Pentanoic Acid	i-Hexanoic Acid	Hexanoic Acid
			µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Zone D	ZVI-2(32.5)-G121812	12/18/12	NA	NA	NA	37	260	98	1.2	11	0.52 J	0.15 U	0.10	0.05 U	0.1 U
	ZVI-2(32.5)-G030613	3/6/13	650	15	10	0.044 J	31	19	0.32 J	0.27 J	0.15	0.20	0.040 J	0.050 U	0.10 U
	ZVI-2(32.5)-G030613	5/3/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-ZVI2 (32.5)-G100715	10/7/15	1,000	6	14	0.091 J	2.4	1.6	0.043 J	0.02 J	0.1 U	0.1 U	0.1 U	0.2 U	0.2 U
	ATR-ZVI2(32.5)-G030116	3/1/16	5,200	5.7	48	0.009 J	7.4	6.2	0.16	0.02 J	0.017 J	0.1 U	0.0068 J	0.2 U	0.2 U
	ATR-ZVI2(32.5)-G061416	6/14/16	8,300	44	54	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-ZVI2(32.5)-G092616	9/26/16	5,200	31	180	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-ZVI2(32.5)-G013117	1/31/17	25,000	190	130	2 U	180	62	1.3	3.7	2.0	0.43	2.1	0.019 J	0.054 J
	ATR-ZVI2(32.5)-G060617	6/6/17	34,000	170	1.7	2 U	83	16	0.84	0.74	0.89 J	0.5	0.28	0.2 U	0.2 U
	ATR-MWZVI2(32.5)-G100917	10/9/17	31,000	100	0.0087 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-ZVI-2(32.5)-G022618	2/26/18	22,000	120	0.021 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-ZVI2(32.5)-G071918	7/19/18	21,000	140	0.025 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-OW5 (16)-G100715	10/7/15	350	4	9.8	2 U	120	180	0.9	2.3	1.0	0.75	0.066 J	0.2 U	0.2 U
	ATR-OW5(16)-030116	3/1/16	2,400	5.1	180	0.01 J	12	7	0.21	0.046 J	0.042 J	0.1 U	0.012 J	0.2 U	0.2 U
	ATR-OW5(16)-G061416	6/14/16	5,200	2.9	160	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-OW5(16)-G092716	9/27/16	17,000	60	74	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-OW5(16)-G013017	1/30/17	12,000	35	8.4	0.12 J	16	5.9	0.13	0.14	0.072 J	0.043 J	0.038 J	0.2 U	0.2 U
	ATR-OW5(16)-G060617	6/6/17	18,000	36	1.8	0.036 J	0.3	0.1 U	0.036 J	0.1 U	0.1 U	0.1 U	0.1 U	0.2 U	0.2 U
	ATR-MWOW5(16)-G101017	10/10/17	17,000	31	1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-OW-5(16)-G022718	2/27/18	19,000	49	0.22	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-OW5(16)-G072318	7/23/18	19,000	90	0.12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-OW5 (35)-G100715	10/7/15	1,200	3.4	56	2 U	85	330	0.83 J	1.2	0.72 J	0.081 J	0.075 J	0.2 U	0.2 U
	ATR-OW5(35)-G030116	3/1/16	6,700	11	130	0.3 J	280	120	0.45 J	1.8	2.1	0.75 J	0.8 J	2.0 U	2 U
	ATR-OW5(35)-G061416	6/14/16	22,000	71	170	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-OW5(35)-G092616	9/26/16	22,000	110	200	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-OW5(35)-G013017	1/30/17	31,000	21	0.69	0.18 J	260	24	0.82	5.6	0.78	0.99	0.42	0.2 U	0.45
	ATR-OW5(35)-G060617	6/6/17	28,000	34	0.016 J	2 U	45	0.19 J	0.24	0.14	0.032 J	0.13	0.1 U	0.2 U	0.2 U
	ATR-MWOW2(35)-G101017	10/10/17	33,000	250	0.1 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
ATR-OW-5(35)-G022718	2/27/18	23,000	170	0.0094 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
ATR-OW5(35)-G072318	7/23/18	20,000	140	0.10 U	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	

Table 4 (continued)
Summary of Dissolved Gases and Volatile Fatty Acid Results
Performed on the Groundwater Samples Collected from Performance Monitoring Wells
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

Treatment Area	Sample ID	Sample Date	Dissolved Gases			Volatile Fatty Acids									
			Methane	Ethane	Ethene	Lactic Acid	Acetic Acid	Propionic Acid	Formic Acid	Butyric Acid	Pyruvic Acid	i-Pentanoic Acid	Pentanoic Acid	i-Hexanoic Acid	Hexanoic Acid
			µg/L	µg/L	µg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Zone D	ATR-OW5 (54)-G100715	10/7/15	610	2.7	11	0.031 J	0.056 J	0.047 J	0.028 J	0.012 J	0.1 U	0.1 U	0.1 U	0.2 U	0.2 U
	ATR-OW5(54)-G030116	3/1/16	1,100	7.5	180	0.12 J	550	760	2.3 J	2.7 J	1.6 J	1.2	0.84 J	2.0 U	2.0 U
	ATR-OW5(45)-G061416	6/14/16	2,900	14	310	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-OW5(45)-G092616	9/26/16	16,000	19	860	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-OW5(45)-G013017	1/30/17	34,000	200	940	4.1 J	570	470	4.7	35	3.1	1.8	3.8	0.42	0.25
	ATR-OW5(45)-G060617	6/6/17	25,000	120	1.5	2 U	420	230	20 U	19	4.3	3.0	5.8	0.5	0.52
	ATR-MWOW2(44)-G101017	10/10/17	32,000	140	5.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-OW-5(44)-G022718	2/27/18	25,000	150	0.074 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	ATR-OW5(44)-G072318	7/23/18	22,000	200	0.28	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes: Blue text is performance monitoring data
 NA - Not Analyzed
 NM - Not Measured
 J - Estimated concentration, analyte detected below quantitation limit
 U - Analyzed but not detected above the MDL
 cells/mL - cells per milliliter

Prepared by: R;B
 Checked by: PJS

Table 5
Surveyed Elevation Data and Depth to Water for Monitoring Wells Used
for Groundwater Elevation Contour Mapping - 16 July 2018
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

Monitoring Well/Point ID	Top of Casing Elevation ⁽¹⁾	Depth to Water (btoc) ⁽²⁾	Ground Water Elevation
Shallow Overburden Wells			
MW-1	840.48	38.34	802.14
MW-3	805.45	20.18	785.27
MW-5	807.89	20.56	787.33
MW-6C	810.40	25.32	785.08
MW-9C	808.16	23.08	785.08
MW-12	808.46	23.47	784.99
MW-13	806.67	21.69	784.98
MW-14	802.70	17.92	784.78
MW-16	791.18	9.00	782.18
MW-17	784.41	2.57	781.84
MW-20(35)	810.42	25.34	785.08
MW-21(40.2)	810.33	25.48	784.85
MW-23(39.9)	816.67	31.34	785.33
MW-24(24.9)	804.92	20.21	784.71
MW-25(16.4)	791.93	7.71	784.22
MW-26(17.5)	792.16	10.13	782.03
MW-27(18)	785.82	4.05	781.77
MW-30(41.1)	794.57	18.80	775.77
MW-31(30.9)	781.48	7.97	773.51
MW-53(41)	809.87	24.60	785.27
MW-57(38)	795.51	7.33	788.18
MW-59(29)	799.57	14.20	785.37
MW-60(38)	798.51	12.98	785.53
MW-62(36)	810.71	25.63	785.08
MW-65(32)	809.40	24.30	785.10
MW-67(30)	809.53	24.24	785.29
MW-68(32)	809.46	24.17	785.29
MW-71(33)	809.15	23.87	785.28
MW-72(32)	808.92	23.67	785.25
MW-75(32)	809.39	24.32	785.07
MW-76(30)	809.28	23.98	785.30
MW-77(41)	809.39	24.26	785.13
MW-78(35)	809.30	24.20	785.10
MW-79(30)	809.26	NM	NM
MW-81(27)	798.34	12.64	785.70
MW-84(44)	824.91	40.19	784.72
MW-85(39)	796.49	11.70	784.79
MW-89(28)	797.77	12.42	785.35
OW-1(28)	805.18	20.22	784.96
OW-2(33)	805.54	NM	NM
OW-3(35)	801.72	17.10	784.62
OW-4(35)	801.35	NM	NM
OW-5(16)	790.72	8.35	782.37
OW-6(38)	789.27	8.21	781.06
PM-2	798.45	NM	NM
PM-3	808.40	23.15	785.25
ZVI-2(17.5)	791.17	9.15	782.02

Table 5
Surveyed Elevation Data and Depth to Water for Monitoring Wells Used
for Groundwater Elevation Contour Mapping - 16 July 2018
TORX Facility, 4366 North Old US Highway 31, Rochester, Indiana

Monitoring Well/Point ID	Top of Casing Elevation ⁽¹⁾	Depth to Water (btoc) ⁽²⁾	Ground Water Elevation
Intermediate Overburden Wells			
MW-9B	808.07	23.02	785.05
MW-15	792.90	8.94	783.96
MW-19(53)	809.56	24.44	785.12
MW-20(51)	810.41	25.32	785.09
MW-24(55.4)	804.94	20.18	784.76
MW-25(45.2)	791.91	7.99	783.92
MW-26(58.2)	792.17	9.44	782.73
MW-27(53.05)	785.84	3.10	782.74
MW-29(82.5)	801.45	24.18	777.27
MW-31(55.5)	781.47	8.44	773.03
MW-52(55)	798.84	14.05	784.79
MW-55(49)	799.24	12.90	786.34
MW-56(50)	797.23	11.11	786.12
MW-82(58)	807.38	22.35	785.03
MW-83(64)	807.67	22.71	784.96
MW-84(65)	824.56	40.04	784.52
OW-1(39)	805.15	20.20	784.95
OW-2(53)	805.50	NM	NM
OW-3(55)	801.66	17.06	784.60
OW-4(54)	801.33	NM	NM
OW-5(35)	790.76	7.47	783.29
OW-6(63)	789.27	7.60	781.67
ZVI-2(32.5)	791.19	9.02	782.17

NM - Not Measured

⁽¹⁾ Top of casing elevation established using NAVD 88 datum (US survey feet)

⁽²⁾ Below top of casing (feet)

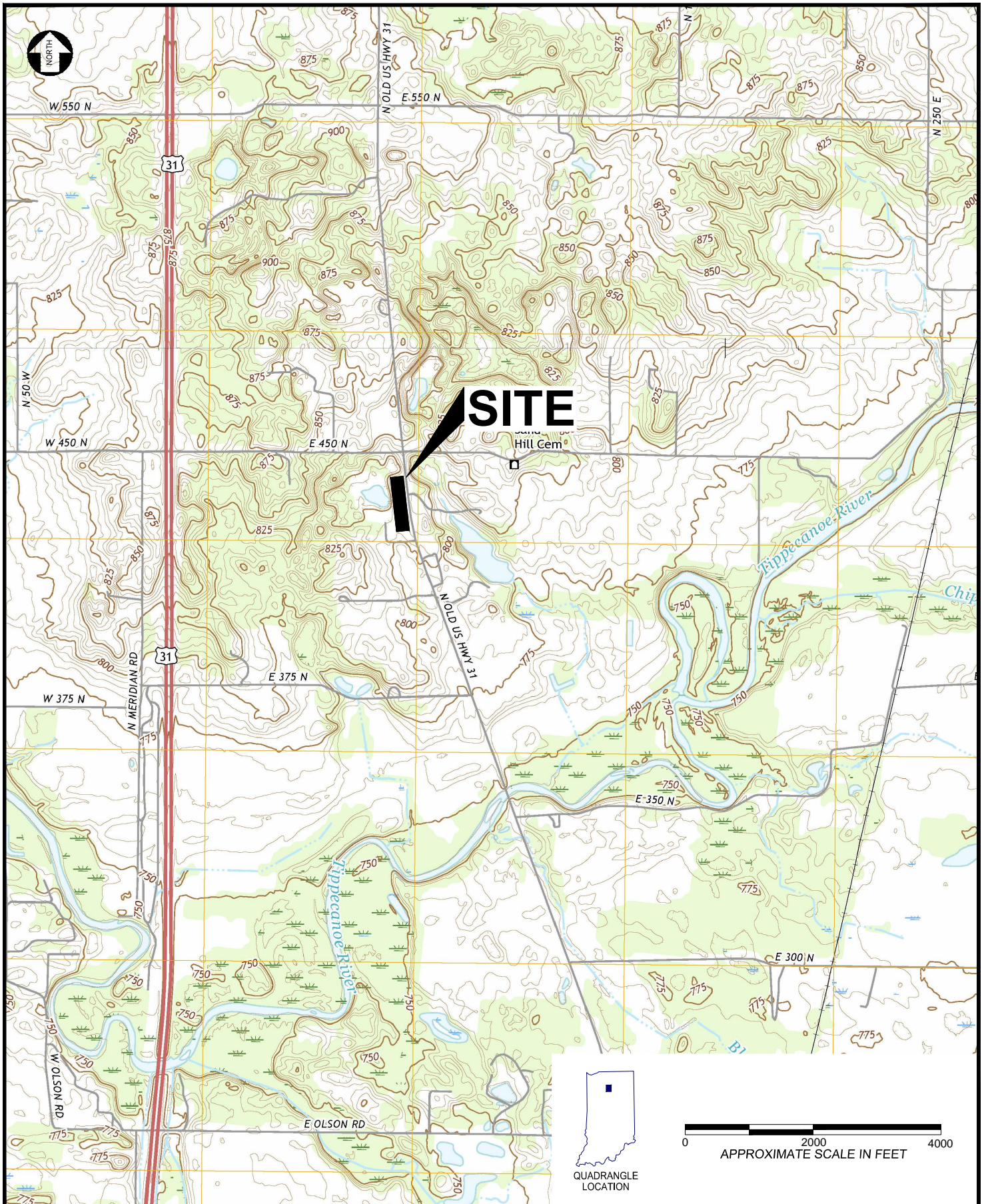
Prepared By: RLB

Checked By: PJS



Textron, Inc.
TORX Facility Remediation
Report of Performance Monitoring

FIGURES



QUADRANGLE LOCATION



APPROXIMATE SCALE IN FEET

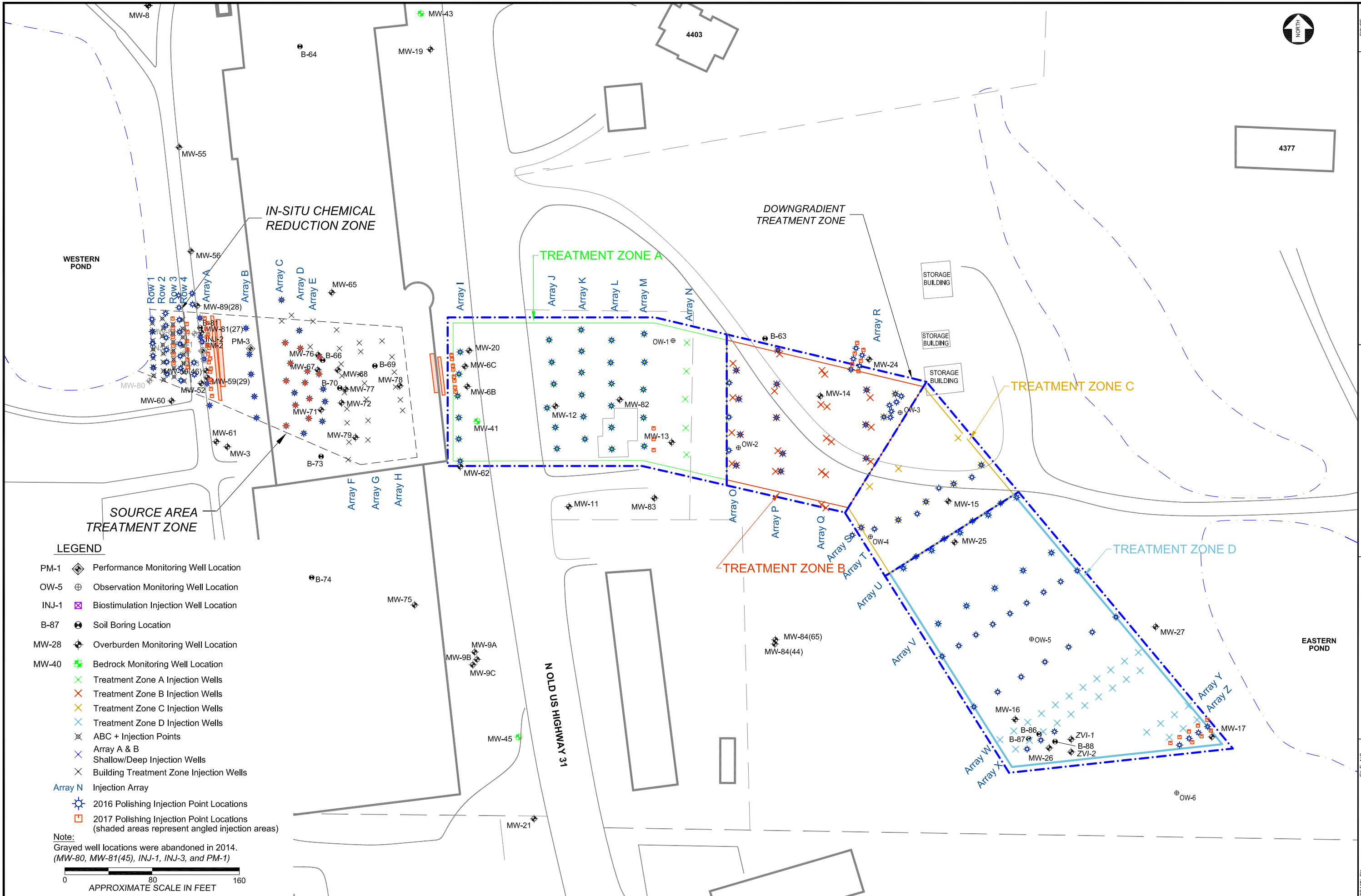
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 FILE NO.
 DATE 11/07/2018
 APPROVED BY PJS
 SOURCE USGS 7.5 minute topographic survey maps of Argos and Rochester, IN, 2016.
 PROJECT NO. 3359 15 1040
 SCALE SEE ABOVE

TORX FACILITY
4366 NORTH OLD US HIGHWAY 31
ROCHESTER, INDIANA



SITE LOCATION MAP

FIGURE **1**
 SHEET 1 of 1



LEGEND

- PM-1 Performance Monitoring Well Location
- OW-5 Observation Monitoring Well Location
- INJ-1 Biostimulation Injection Well Location
- B-87 Soil Boring Location
- MW-28 Overburden Monitoring Well Location
- MW-40 Bedrock Monitoring Well Location
- Treatment Zone A Injection Wells
- Treatment Zone B Injection Wells
- Treatment Zone C Injection Wells
- Treatment Zone D Injection Wells
- ABC + Injection Points
- Array A & B Shallow/Deep Injection Wells
- Building Treatment Zone Injection Wells
- Array N Injection Array
- 2016 Polishing Injection Point Locations
- 2017 Polishing Injection Point Locations (shaded areas represent angled injection areas)

Note:
 Grayed well locations were abandoned in 2014.
 (MW-80, MW-81(45), INJ-1, INJ-3, and PM-1)

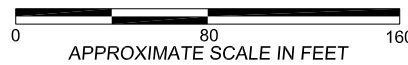
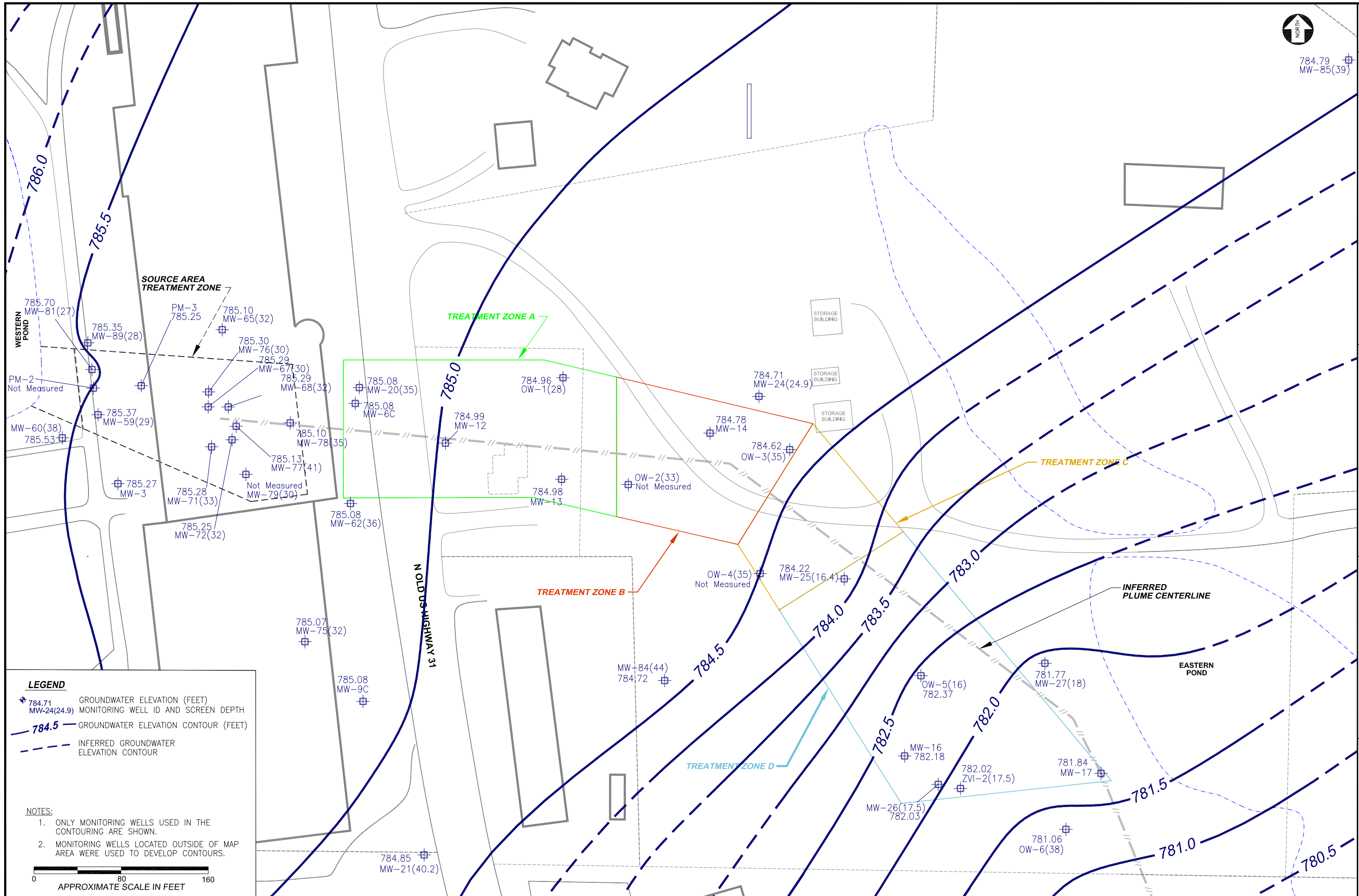
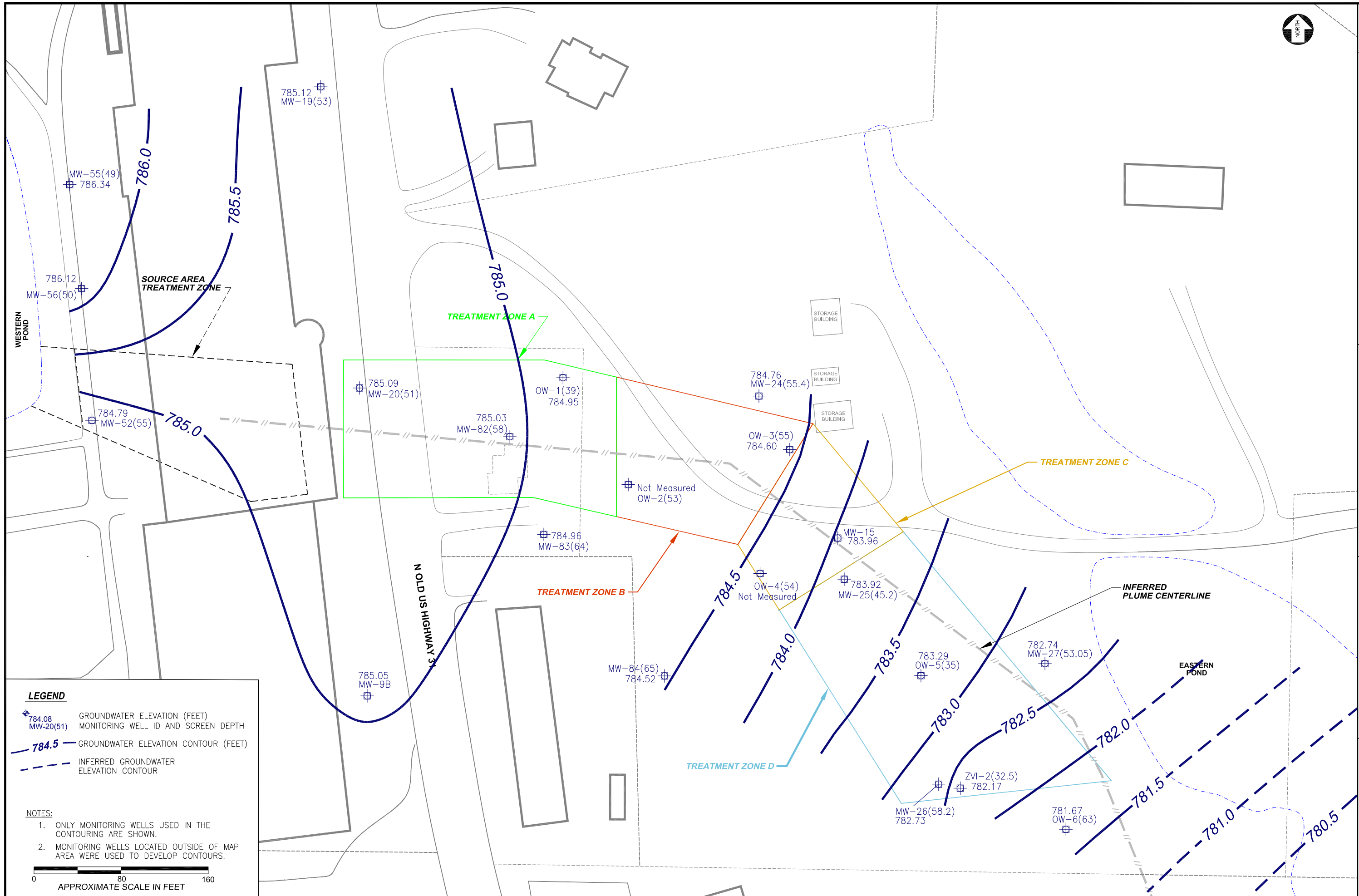
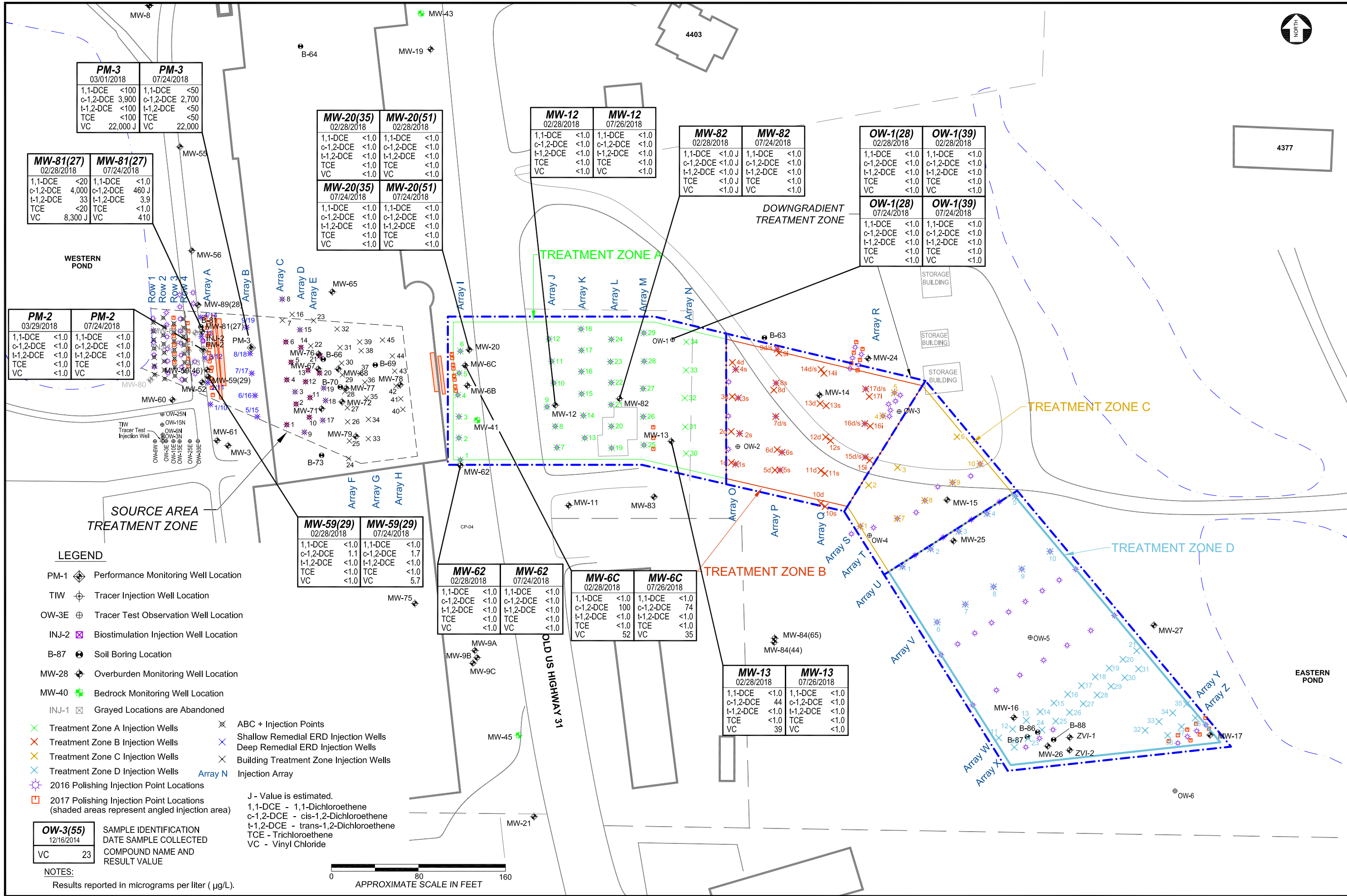


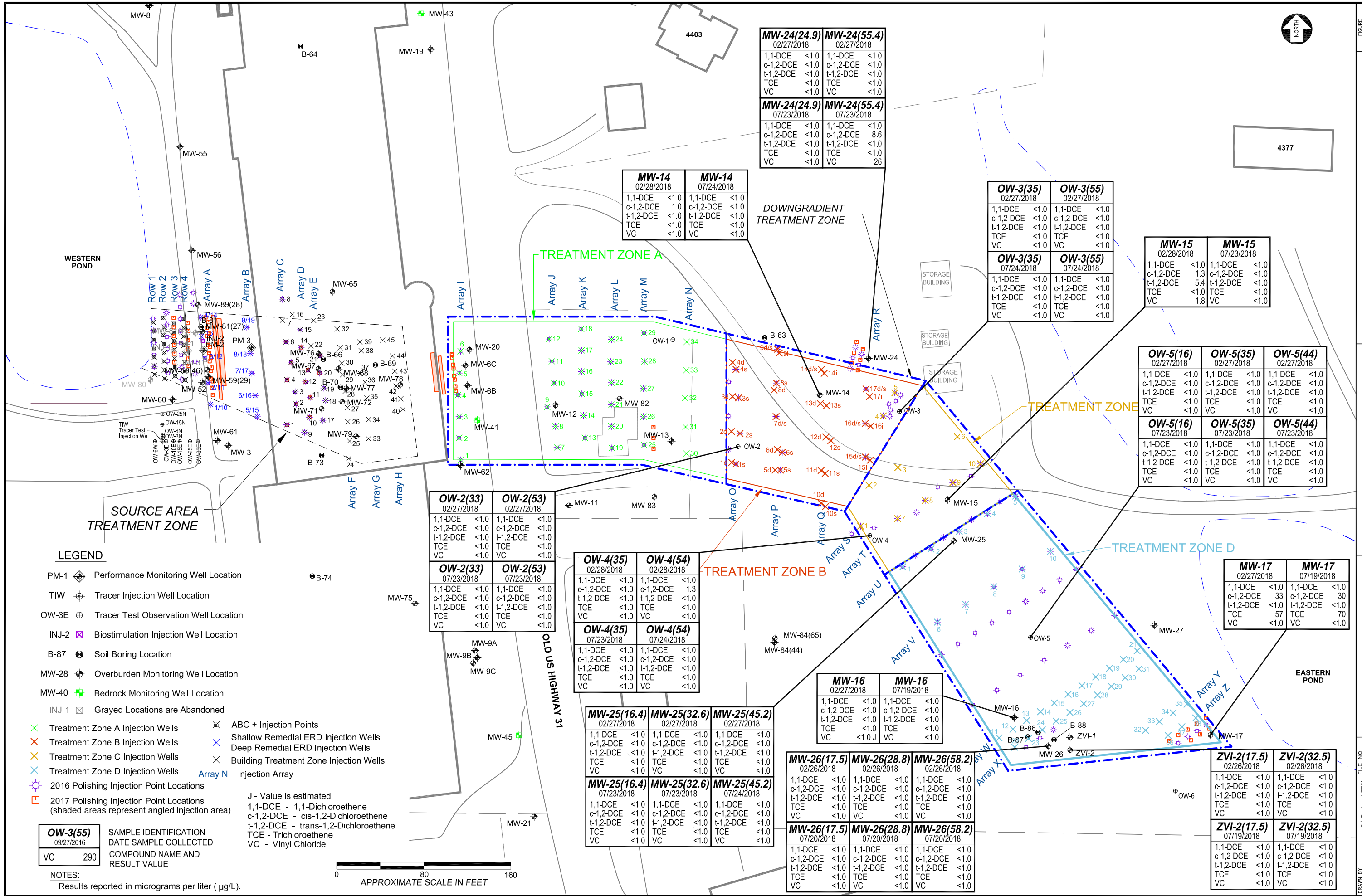
FIGURE	2	TREATMENT ZONES, ARRAYS AND WELL LOCATIONS
TORX FACILITY 4366 NORTH OLD US HIGHWAY 31 ROCHESTER, INDIANA		
DRAWN BY	FILE NO.	SCALE
RLB	P:\Tektro\TFS\Drawings\PM 2017 Site Plan.dwg	SEE ABOVE
APPROVED BY	DATE	PROJECT NO.
PJS	11/07/2018	3.359 15 1040
SOURCE Wells surveyed by Territorial Engineering, Fulton County, IN GIS, 2005.		



16 July 2018







MW-24(24.9) 02/27/2018	MW-24(55.4) 02/27/2018
1,1-DCE <1.0	1,1-DCE <1.0
c-1,2-DCE <1.0	c-1,2-DCE <1.0
t-1,2-DCE <1.0	t-1,2-DCE <1.0
TCE <1.0	TCE <1.0
VC <1.0	VC <1.0

MW-24(24.9) 07/23/2018	MW-24(55.4) 07/23/2018
1,1-DCE <1.0	1,1-DCE <1.0
c-1,2-DCE <1.0	c-1,2-DCE 8.6
t-1,2-DCE <1.0	t-1,2-DCE <1.0
TCE <1.0	TCE <1.0
VC <1.0	VC 26

MW-14 02/28/2018	MW-14 07/24/2018
1,1-DCE <1.0	1,1-DCE <1.0
c-1,2-DCE 1.0	c-1,2-DCE <1.0
t-1,2-DCE <1.0	t-1,2-DCE <1.0
TCE <1.0	TCE <1.0
VC <1.0	VC <1.0

OW-3(35) 02/27/2018	OW-3(55) 02/27/2018
1,1-DCE <1.0	1,1-DCE <1.0
c-1,2-DCE <1.0	c-1,2-DCE <1.0
t-1,2-DCE <1.0	t-1,2-DCE <1.0
TCE <1.0	TCE <1.0
VC <1.0	VC <1.0

OW-3(35) 07/24/2018	OW-3(55) 07/24/2018
1,1-DCE <1.0	1,1-DCE <1.0
c-1,2-DCE <1.0	c-1,2-DCE <1.0
t-1,2-DCE <1.0	t-1,2-DCE <1.0
TCE <1.0	TCE <1.0
VC <1.0	VC <1.0

MW-15 02/28/2018	MW-15 07/23/2018
1,1-DCE <1.0	1,1-DCE <1.0
c-1,2-DCE 1.3	c-1,2-DCE <1.0
t-1,2-DCE 5.4	t-1,2-DCE <1.0
TCE <1.0	TCE <1.0
VC 1.8	VC <1.0

OW-5(16) 02/27/2018	OW-5(35) 02/27/2018	OW-5(44) 02/27/2018
1,1-DCE <1.0	1,1-DCE <1.0	1,1-DCE <1.0
c-1,2-DCE <1.0	c-1,2-DCE <1.0	c-1,2-DCE <1.0
t-1,2-DCE <1.0	t-1,2-DCE <1.0	t-1,2-DCE <1.0
TCE <1.0	TCE <1.0	TCE <1.0
VC <1.0	VC <1.0	VC <1.0

OW-5(16) 07/23/2018	OW-5(35) 07/23/2018	OW-5(44) 07/23/2018
1,1-DCE <1.0	1,1-DCE <1.0	1,1-DCE <1.0
c-1,2-DCE <1.0	c-1,2-DCE <1.0	c-1,2-DCE <1.0
t-1,2-DCE <1.0	t-1,2-DCE <1.0	t-1,2-DCE <1.0
TCE <1.0	TCE <1.0	TCE <1.0
VC <1.0	VC <1.0	VC <1.0

OW-2(33) 02/27/2018	OW-2(53) 02/27/2018
1,1-DCE <1.0	1,1-DCE <1.0
c-1,2-DCE <1.0	c-1,2-DCE <1.0
t-1,2-DCE <1.0	t-1,2-DCE <1.0
TCE <1.0	TCE <1.0
VC <1.0	VC <1.0

OW-2(33) 07/23/2018	OW-2(53) 07/23/2018
1,1-DCE <1.0	1,1-DCE <1.0
c-1,2-DCE <1.0	c-1,2-DCE <1.0
t-1,2-DCE <1.0	t-1,2-DCE <1.0
TCE <1.0	TCE <1.0
VC <1.0	VC <1.0

OW-4(35) 02/28/2018	OW-4(54) 02/28/2018
1,1-DCE <1.0	1,1-DCE <1.0
c-1,2-DCE <1.0	c-1,2-DCE 1.3
t-1,2-DCE <1.0	t-1,2-DCE <1.0
TCE <1.0	TCE <1.0
VC <1.0	VC <1.0

OW-4(35) 07/23/2018	OW-4(54) 07/24/2018
1,1-DCE <1.0	1,1-DCE <1.0
c-1,2-DCE <1.0	c-1,2-DCE <1.0
t-1,2-DCE <1.0	t-1,2-DCE <1.0
TCE <1.0	TCE <1.0
VC <1.0	VC <1.0

MW-16 02/27/2018	MW-16 07/19/2018
1,1-DCE <1.0	1,1-DCE <1.0
c-1,2-DCE <1.0	c-1,2-DCE <1.0
t-1,2-DCE <1.0	t-1,2-DCE <1.0
TCE <1.0	TCE <1.0
VC <1.0	VC <1.0

MW-25(16.4) 02/27/2018	MW-25(32.6) 02/27/2018	MW-25(45.2) 02/27/2018
1,1-DCE <1.0	1,1-DCE <1.0	1,1-DCE <1.0
c-1,2-DCE <1.0	c-1,2-DCE <1.0	c-1,2-DCE <1.0
t-1,2-DCE <1.0	t-1,2-DCE <1.0	t-1,2-DCE <1.0
TCE <1.0	TCE <1.0	TCE <1.0
VC <1.0	VC <1.0	VC <1.0

MW-25(16.4) 07/23/2018	MW-25(32.6) 07/23/2018	MW-25(45.2) 07/24/2018
1,1-DCE <1.0	1,1-DCE <1.0	1,1-DCE <1.0
c-1,2-DCE <1.0	c-1,2-DCE <1.0	c-1,2-DCE <1.0
t-1,2-DCE <1.0	t-1,2-DCE <1.0	t-1,2-DCE <1.0
TCE <1.0	TCE <1.0	TCE <1.0
VC <1.0	VC <1.0	VC <1.0

MW-26(17.5) 02/26/2018	MW-26(28.8) 02/26/2018	MW-26(58.2) 02/26/2018
1,1-DCE <1.0	1,1-DCE <1.0	1,1-DCE <1.0
c-1,2-DCE <1.0	c-1,2-DCE <1.0	c-1,2-DCE <1.0
t-1,2-DCE <1.0	t-1,2-DCE <1.0	t-1,2-DCE <1.0
TCE <1.0	TCE <1.0	TCE <1.0
VC <1.0	VC <1.0	VC <1.0

MW-26(17.5) 07/20/2018	MW-26(28.8) 07/20/2018	MW-26(58.2) 07/20/2018
1,1-DCE <1.0	1,1-DCE <1.0	1,1-DCE <1.0
c-1,2-DCE <1.0	c-1,2-DCE <1.0	c-1,2-DCE <1.0
t-1,2-DCE <1.0	t-1,2-DCE <1.0	t-1,2-DCE <1.0
TCE <1.0	TCE <1.0	TCE <1.0
VC <1.0	VC <1.0	VC <1.0

ZVI-2(17.5) 02/26/2018	ZVI-2(32.5) 02/26/2018
1,1-DCE <1.0	1,1-DCE <1.0
c-1,2-DCE <1.0	c-1,2-DCE <1.0
t-1,2-DCE <1.0	t-1,2-DCE <1.0
TCE <1.0	TCE <1.0
VC <1.0	VC <1.0

ZVI-2(17.5) 07/19/2018	ZVI-2(32.5) 07/19/2018
1,1-DCE <1.0	1,1-DCE <1.0
c-1,2-DCE <1.0	c-1,2-DCE <1.0
t-1,2-DCE <1.0	t-1,2-DCE <1.0
TCE <1.0	TCE <1.0
VC <1.0	VC <1.0

LEGEND

- PM-1 Performance Monitoring Well Location
- TIW Tracer Injection Well Location
- OW-3E Tracer Test Observation Well Location
- INJ-2 Biostimulation Injection Well Location
- B-87 Soil Boring Location
- MW-28 Overburden Monitoring Well Location
- MW-40 Bedrock Monitoring Well Location
- INJ-1 Grayed Locations are Abandoned
- Treatment Zone A Injection Wells
- Treatment Zone B Injection Wells
- Treatment Zone C Injection Wells
- Treatment Zone D Injection Wells
- 2016 Polishing Injection Point Locations
- 2017 Polishing Injection Point Locations (shaded areas represent angled injection area)
- ABC + Injection Points
- Shallow Remedial ERD Injection Wells
- Deep Remedial ERD Injection Wells
- Building Treatment Zone Injection Wells
- Injection Array

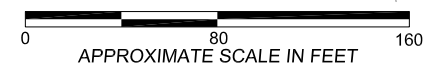
OW-3(55)
09/27/2016

VC	290
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SAMPLE IDENTIFICATION DATE SAMPLE COLLECTED COMPOUND NAME AND RESULT VALUE

J - Value is estimated.
 1,1-DCE - 1,1-Dichloroethene
 c-1,2-DCE - cis-1,2-Dichloroethene
 t-1,2-DCE - trans-1,2-Dichloroethene
 TCE - Trichloroethene
 VC - Vinyl Chloride

NOTES:
Results reported in micrograms per liter (µg/L).





WESTERN POND

MW-76		MW-76	
03/01/2018		07/25/2018	
1,1-DCE	<5.0	1,1-DCE	<5.0
c-1,2-DCE	41	c-1,2-DCE	36
t-1,2-DCE	<5.0	t-1,2-DCE	<5.0
TCE	<5.0	TCE	<5.0
VC	1,100 J	VC	1,200

MW-68		MW-68	
03/01/2018		07/25/2018	
1,1-DCE	<5.0	1,1-DCE	<5.0
c-1,2-DCE	140 J	c-1,2-DCE	240 J
t-1,2-DCE	<5.0	t-1,2-DCE	<5.0
TCE	<5.0	TCE	<5.0
VC	960 J	VC	1,000

MW-78		MW-78	
03/01/2018		07/25/2018	
1,1-DCE	<1.0	1,1-DCE	<1.0
c-1,2-DCE	<1.0	c-1,2-DCE	<1.0
t-1,2-DCE	<1.0	t-1,2-DCE	<1.0
TCE	<1.0	TCE	<1.0
VC	<1.0	VC	<1.0

MW-67		MW-67	
03/01/2018		07/25/2018	
1,1-DCE	<1.0	1,1-DCE	<1.0
c-1,2-DCE	4.0	c-1,2-DCE	5.7
t-1,2-DCE	<1.0	t-1,2-DCE	<1.0
TCE	<1.0	TCE	<1.0
VC	73	VC	2.4

MW-71		MW-71	
03/01/2018		07/25/2018	
1,1-DCE	<5.0	1,1-DCE	<10
c-1,2-DCE	7.1	c-1,2-DCE	<10
t-1,2-DCE	<5.0	t-1,2-DCE	<10
TCE	<5.0	TCE	<10
VC	1,300 J	VC	3,000

MW-72		MW-72	
03/01/2018		07/25/2018	
1,1-DCE	<1.0	1,1-DCE	<1.0
c-1,2-DCE	2.8	c-1,2-DCE	<1.0
t-1,2-DCE	<1.0	t-1,2-DCE	<1.0
TCE	<1.0	TCE	<1.0
VC	1.4	VC	<1.0

MW-77		MW-77	
03/01/2018		07/25/2018	
1,1-DCE	<1.0	1,1-DCE	<1.0
c-1,2-DCE	<1.0	c-1,2-DCE	<1.0
t-1,2-DCE	<1.0	t-1,2-DCE	<1.0
TCE	<1.0	TCE	<1.0
VC	<1.0	VC	<1.0

LEGEND

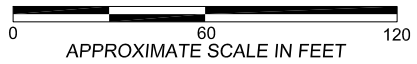
- PM-1 Performance Monitoring Well Location
- INJ-2 Biostimulation Injection Well Location
- B-87 Soil Boring Location
- MW-28 Overburden Monitoring Well Location
- MW-40 Bedrock Monitoring Well Location
- INJ-1 Grayed Locations are Abandoned
- Treatment Zone A Injection Wells
- ABC + Injection Points
- Shallow Remedial ERD Injection Wells
- Deep Remedial ERD Injection Wells
- Building Treatment Zone Injection Wells
- 2016 Polishing Injection Point Locations
- 2017 Polishing Injection Point Locations (shaded areas represent angled injection area)

OW-3(55)	
09/29/2016	
VC	240

SAMPLE IDENTIFICATION
 DATE SAMPLE COLLECTED
 COMPOUND NAME AND
 RESULT VALUE

J - Value is estimated.
 1,1-DCE - 1,1-Dichloroethene
 c-1,2-DCE - cis-1,2-Dichloroethene
 t-1,2-DCE - trans-1,2-Dichloroethene
 TCE - Trichloroethene
 VC - Vinyl Chloride

NOTES:
 Results reported in micrograms per liter (µg/L).



DRAWN BY RLB	P:\Textron\TFS\ FILE NO. Drawings\Perf Mon 2015.dwg
APPROVED BY PJS	DATE 11/07/2018
SOURCE Wells surveyed by Territorial Engineering; Fulton County, IN GIS, 2005.	
PROJECT NO. 3359 15 1040	SCALE SEE ABOVE

TORX FACILITY
4366 NORTH OLD US HIGHWAY 31
ROCHESTER, INDIANA



PERFORMANCE MONITORING
VOLATILE ORGANIC
COMPOUNDS
SOURCE AREA
INSIDE/BENEATH BUILDING



Textron, Inc.
TORX Facility Remediation
Report of Performance Monitoring

APPENDIX A

GROUNDWATER SAMPLE COLLECTION FIELD FORMS

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location TFS Rochester Surface Water Groundwater Sample ID ATR-MW 81(27)
 Project Number 3359-15-1040 (Use: Well name)
 Sampling Personnel GLD Date 7/24/18 Start Time 1430 Weather Sunny 80°F

MEASUREMENT SUMMARY:
 Measuring Point TOC Depth to Water 13.07 Depth to Product _____ Product Thickness _____
 Total Casing Depth 27.61 Borehole Diameter _____ Approx. Pump Depth 25 Feet
 Screen Interval top bottom _____ Feet

SAMPLING SUMMARY:
 Sampling Method: Grab Composite Grundfos Bladder Pump Peristaltic Pump Bailor
 Pump Started 1440 Pump Stopped 1534 Total 1215 gal/Liter

Time (24-hr)	Temp (°C) ±3%	DO (mg/L) ±10%	SC (uS/cm) ±3%	pH (S.U.) ±0.1	ORP (mV) ±10	Turb. (NTU) ±10	DTW (ft) ±3%	Drawdown (ft)	Flow Rate (ml/min) <250
1445	20.61	0.51	1039	6.05	-70.6	7.73	13.09	1.02	250
1450	19.70	0.22	1037	6.05	-73.1	8.64	13.13	1.06	11
1455	19.75	0.21	1041	6.06	-73.9	6.77	13.09	1.02	11
1500	19.47	0.26	1039	6.06	-72.8	6.89	13.11	1.04	11
1505	19.77	0.31	1041	6.05	-71.7	5.66	13.10	1.03	11
1510	19.90	0.37	1043	6.06	-70.5	5.07	13.09	1.02	11
1515	19.90	0.45	1020	6.05	-68.9	5.50	13.51	1.49	11
1520	16.68	0.40	1027	6.05	-65.3	5.02	13.57	1.50	11
1525	16.74	0.44	1034	6.04	-65.9	5.03	13.51	1.44	11
1530	16.88	0.42	1036	6.04	-63.6	4.09	13.52	1.45	11

Final:
 Time 1530 Temp 16.88 DO 0.42 SC 1036 pH 6.04 ORP -63.6 Turb. 4.09 DTW 13.52 Drawdown 1.45 Flow Rate 250

Comments: _____

Sample Name ATR-MW 81(27)-G072418 Time 1530
 Analyses (check) Bottle #/Type Preservative
 VOCs 3/G 1 Dissolved Gasses 3/G 6
 TOC + NO₃ 1/P 3 VFA _____
 Fe/Mn _____ DHC _____
 Alkalinity + Anions (Cl-, SO₄) _____
 Other: _____ Other: _____
 MS/MSD _____ Blind Dup _____ Blind Dup Name _____ TB _____

Bottle Type:
 G = Glass
 P = Poly
 Preservative Codes:
 1 = HCL 4 = NaOH
 2 = HNO₃ 5 = BAC
 3 = H₂SO₄ 6 = Na₃PO₄



GROUNDWATER/SURFACE WATER SAMPLING FORM

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location TFS Rochester Surface Water Groundwater Sample ID ATR-MW 59(29)
 Project Number 3359-15-1040 (Use: Well name)
 Sampling Personnel GD Date 7/24/18 Start Time 1550 Weather Sunny 81°F

MEASUREMENT SUMMARY:
 Measuring Point TOC Depth to Water 14.29 Depth to Product _____ Product Thickness _____
 Total Casing Depth 28.78 Borehole Diameter _____ Approx. Pump Depth 27 Feet
 Screen Interval top bottom Feet

SAMPLING SUMMARY:
 Sampling Method: Grab Composite Grundfos Bladder Pump Peristaltic Pump Bailor
 Pump Started 1555 Pump Stopped 1641 Total 8 gal / Liter

Time (24-hr)	Temp (°C) ±3%	DO (mg/L) ±10%	SC (uS/cm) ±3%	pH (S.U.) ±0.1	ORP (mV) ±10	Turb. (NTU) ±10	DTW (ft) ±3%	Drawdown (ft)	Flow Rate (ml/min) <250
1600	21.52	0.150	1558	6.34	88.5	7.80	14.29	0.00	200
1605	21.63	0.139	1559	6.32	90.1	7.09	14.29	0.00	11
1610	21.88	0.128	1554	6.33	92.4	3.81	14.29	0.00	11
1615	21.73	0.125	1558	6.33	93.0	4.04	14.29	0.00	11
1620	22.07	0.132	1578	6.33	94.1	3.97	14.30	0.01	11
1625	22.18	0.150	1606	6.34	93.3	4.74	14.30	0.01	11
1630	22.18	0.179	1617	6.34	92.7	6.88	14.30	0.01	11
1635	22.48	0.176	1629	6.36	89.5	5.49	14.29	0.00	11

Final:
 Time 1635 Temp 22.48 DO 0.176 SC 1629 pH 6.36 ORP 89.5 Turb. 5.49 DTW 14.29 Drawdown 0.00 Flow Rate 200

Comments: Replicate ID 59(29)-G072418-R

Sample Name ATR-MW 59(29)-G072418 Time 1635

Analyses (check)	Bottle #/Type	Preservative	Bottle #/Type	Preservative
VOCs <input checked="" type="checkbox"/>	<u>4/B</u>	<u>1</u>	Dissolved Gasses <input checked="" type="checkbox"/>	<u>6/C</u>
TOC + NO ₃ <input type="checkbox"/>	<u>2/P</u>	<u>3</u>	VFA <input type="checkbox"/>	_____
Fe/Mn <input type="checkbox"/>	_____	_____	DHC <input type="checkbox"/>	_____
Other: <input type="checkbox"/>	_____	_____	Alkalinity + Anions (Cl-, SO ₄) <input type="checkbox"/>	_____
MS/MSD <input type="checkbox"/>	_____	Blind Dup <input type="checkbox"/>	Other: <input type="checkbox"/>	_____
_____	_____	Blind Dup Name _____	_____	_____

Bottle Type:
 G = Glass
 P = Poly

Preservative Codes:
 1 = HCL 4 = NaOH
 2 = HNO₃ 5 = BAC
 3 = H₂SO₄ 6 = Na₃PO₄



GROUNDWATER/SURFACE WATER SAMPLING FORM

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location TFS Rochester Surface Water Groundwater Sample ID ATR-~~1111~~ PM 2
 Project Number 3359-15-1040 (Use: Well name)
 Sampling Personnel COU Date 7/24/18 Start Time 1325 Weather Sunny 77°F

MEASUREMENT SUMMARY:

Measuring Point TOC Depth to Water 12.90 Depth to Product _____ Product Thickness _____
 Total Casing Depth 2385 Borehole Diameter _____ Approx. Pump Depth 21 Feet
 Screen Interval top _____ bottom _____ Feet

SAMPLING SUMMARY:

Sampling Method: Grab Composite Grundfos Bladder Pump Peristaltic Pump Bailor

Pump Started 1330 Pump Stopped 1423 Total 12 gal / 45 Liter

Time (24-hr)	Temp (°C) ±3%	DO (mg/L) ±10%	SC (uS/cm) ±3%	pH (S.U.) ±0.1	ORP (mV) ±10	Turb. (NTU) ±10	DTW (ft) ±3%	Drawdown (ft)	Flow Rate (ml/min) <250
1335	18.65	0.57	1136	6.40	96.0	48.15	1.1	13.01	600
1340	17.18	0.35	1123	6.42	96.0	61.97	13.11	.21	250
1345	19.73	0.35	1128	6.42	93.9	60.33	12.58	.08	100
1350	18.26	0.26	1158	6.44	95.5	52.00	12.84	1.06	100
1355	18.34	0.33	1137	6.44	96.2	40.70	13.19	1.29	200
1400	18.50	0.28	1159	6.43	96.1	31.87	13.17	.27	200
1405	18.50	0.22	1158	6.43	97.7	32.11	13.14	.24	200
1410	18.69	0.23	1168	6.43	97.8	25.45	13.14	.24	200
1415	18.71	0.23	1175	6.43	97.9	23.66	13.13	.23	200
1420	18.77	0.24	1169	6.44	98.0	21.79	13.13	.23	200

Final:

Time 1420 Temp 18.77 DO 0.24 SC 1169 pH 6.44 ORP 98.0 Turb. 21.79 DTW _____ Drawdown _____ Flow Rate _____

Comments: Removal of Product Seck at 1320 Water Smells of Rotten Eggs & solvent

Sample Name ATR-~~1111~~ PM 2-G072418 Time 1420

Analyses (check) Bottle #/Type Preservative

VOCs 3/G 1 Dissolved Gasses 3/G 6

TOC + NO₃ 1/P 3 VFA _____

Fe/Mn _____ DHC _____

Alkalinity + Anions (Cl-, SO₄) _____

Other: _____ Other: _____

MS/MSD _____ Blind Dup _____ Blind Dup Name _____ TB _____

Bottle Type:
 G = Glass
 P = Poly

Preservative Codes:
 1 = HCL 4 = NaOH
 2 = HNO₃ 5 = BAC
 3 = H₂SO₄ 6 = Na₃PO₄



GROUNDWATER/SURFACE WATER SAMPLING FORM

★ REPLICATE SAMPLE COLLECTED

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location TFS Rochester Surface Water Groundwater Sample ID ATR-~~PM-3~~ PM-3
 Project Number 3359-15-1040 (Use: Well name)
 Sampling Personnel EA Date 7/24/18 Start Time 12:09 Weather 82°F PARTLY CLOUDY, WIND TO SOUTH @ 5mph

MEASUREMENT SUMMARY:
 Measuring Point TOC Depth to Water 22.38' Depth to Product N/A Product Thickness N/A
 Total Casing Depth 33.74 Borehole Diameter - Approx. Pump Depth 30.5 Feet
 Screen Interval top bottom Feet

SAMPLING SUMMARY:
 Sampling Method: Grab Composite Grundfos Bladder Pump Peristaltic Pump Bailor

Pump Started 12:29 Pump Stopped 14:34 Total 4 gal/Liter

Time (24-hr)	Temp (°C) ±3%	DO (mg/L) ±10%	SC (uS/cm) ±3%	pH (S.U.) ±0.1	ORP (mV) ±10	Turb. (NTU) ±10	DTW (ft) ±3%	Drawdown (ft)	Flow Rate (ml/min) <250
1235	17.313	0.25	5152	5.11	-38.8	952.37	25.57	3.19	300
1240	16.614	0.22	4885	5.06	-36.2	1607.8	26.91	4.53	300
1245	17.004	0.20	4781	5.05	-35.8	1790.5	27.19	4.81	100
1250	19.719	0.13	4613	5.05	-37.1	1898.9	26.63	4.25	100
1255	20.606	0.24	4533	5.06	-38.6	2131.1	26.29	3.71	100
1300	20.591	0.19	4376	5.06	-38.4	2295.8	26.00	3.62	150
1305	19.122	0.32	4115	5.05	-34.5	1352.7	26.39	4.01	150
1310	20.024	0.34	4100	5.05	-35.0	1348.4	26.42	4.04	150
1315	20.138	0.31	4103	5.06	-35.7	1338.3	26.29	3.91	125
1320	18.999	0.34	4026	5.05	-34.2	1377.2	26.05	3.167	125
1325	18.789	0.36	3975	5.05	-33.1	1440.4	25.91	3.53	125
1330	18.737	0.57	3908	5.04	-32.1	1394.3	25.85	3.47	125
1335	20.119	0.42	3860	5.05	-32.6	1426.8	25.82	3.44	125
1340	20.363	0.40	3833	5.06	-32.7	1418.5	25.80	3.42	125
1345	20.380	0.40	3801	5.06	-32.5	1301.9	25.75	3.37	125
1350	20.187	0.43	3766	5.06	-31.9	1282.7	25.71	3.33	125
1355	20.267	0.44	3790	5.06	-32.3	1341.2	25.56	3.18	125
1400	17.720	0.45	3692	5.05	-29.2	1225.4	25.80	3.42	125
1405	19.283	0.44	3583	5.05	-28.6	1180.5	25.85	3.47	125
1410	19.974	0.45	3631	5.05	-29.2	1122.5	25.91	3.53	125

← SLOWED PUMP FLOWRATE TO REDUCE DRAWDOWN

Final:

Time	Temp	DO	SC	pH	ORP	Turb.	DTW	Drawdown	Flow Rate
1415	19.672	0.49	3638	5.05	-29.3	1087.1	25.92	3.54	125

Comments: GROUNDWATER DESCRIPTION: WHITE, CLOUDY, PUNGENT ODOR. WATER IS OILY BUT WATER LEVEL INDICATOR DID NOT REGISTER PRODUCT. PUMP SET @ 15 PSI, 3 CPM, REFILL = 5.0, DISCHARGE = 15.00

Sample Name ATR-PM-3-G072418-R Time 1415 Bottle Type: G = Glass, P = Poly

Analyses (check) Bottle #/Type Preservative

VOCs 6/G 1 Dissolved Gasses 6/G 6

TOC + NO₃ 2/P 3 VFA _____

Fe/Mn _____ DHC _____

Alkalinity + Anions (Cl-, SO₄) _____

Other: _____ Other: _____

MS/MSD _____ Blind Dup _____ Blind Dup Name _____ TB _____

Preservative Codes: 1 = HCL, 4 = NaOH, 2 = HNO₃, 5 = BAC, 3 = H₂SO₄, 6 = Na₃PO₄



GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location TFS Rochester Surface Water Groundwater Sample ID ATR-MW 67(30)
 Project Number 3359-15-1040 (Use: Well name)
 Sampling Personnel AM Date 7-25-18 Start Time 1155 Weather indoors

MEASUREMENT SUMMARY:

Measuring Point TOC Depth to Water 24.37 Depth to Product N/A Product Thickness N/A
 Total Casing Depth _____ Borehole Diameter _____ Approx. Pump Depth N/A Feet
 Screen Interval top _____ bottom _____ Feet

SAMPLING SUMMARY:

Sampling Method: Grab Composite Grundfos Bladder Pump Peristaltic Pump Bailor

Pump Started 1200 Pump Stopped 1230 Total 1.5 gal / Liter

Time (24-hr)	Temp (°C) ±3%	DO (mg/L) ±10%	SC (uS/cm) ±3%	pH (S.U.) ±0.1	ORP (mV) ±10	Turb. (NTU) ±10	DTW (ft) ±3%	Drawdown (ft)	Flow Rate (ml/min) <250
<u>1200</u>	<u>17.745</u>	<u>1.19</u>	<u>1698</u>	<u>6.18</u>	<u>-35.8</u>	<u>108.68</u>	—	—	—
<u>1205</u>	<u>20.880</u>	<u>2.25</u>	<u>734</u>	<u>6.35</u>	<u>-52.3</u>	<u>130.39</u>	—	—	—
<u>1215</u>	<u>19.431</u>	<u>2.77</u>	<u>1519</u>	<u>6.36</u>	<u>-48.2</u>	<u>240.39</u>	—	—	—
<u>1225</u>	<u>21.222</u>	<u>1.60</u>	<u>1795</u>	<u>6.19</u>	<u>-43.0</u>	<u>290.77</u>	—	—	—

Final: Time 1225 Temp 21.222 DO 1.60 SC 1795 pH 6.19 ORP -43.0 Turb. 290.77 DTW — Drawdown — Flow Rate —

Comments: One well volume => (30 - 24.37)(0.092) = 0.52 gallons
Three well volumes => 3(0.52) = 1.56 gallons

Sample Name ATR-MW 67(30)-G072518 Time 1225

Analyses (check)	Bottle #/Type	Preservative	Bottle #/Type	Preservative
VOCs <input checked="" type="checkbox"/>	<u>3/G</u>	<u>1</u>	Dissolved Gasses <input checked="" type="checkbox"/>	<u>3/G</u> <u>6</u>
TOC + NO ₃ <input checked="" type="checkbox"/>	<u>1/P</u>	<u>3</u>	VFA <input type="checkbox"/>	
Fe/Mn <input type="checkbox"/>			DHC <input type="checkbox"/>	
			Alkalinity + Anions (Cl-, SO ₄) <input type="checkbox"/>	
Other: <input type="checkbox"/>			Other: <input type="checkbox"/>	

MS/MSD _____ Blind Dup _____ Blind Dup Name _____ TB _____

Bottle Type:
 G = Glass
 P = Poly
 Preservative Codes:
 1 = HCL 4 = NaOH
 2 = HNO₃ 5 = BAC
 3 = H₂SO₄ 6 = Na₃PO₄

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location TFS Rochester Surface Water Groundwater Sample ID ATR-MW 68(32)
 Project Number 3359-15-1040 (Use: Well name)
 Sampling Personnel JAM Date 7-25-18 Start Time 1240 Weather indoor

MEASUREMENT SUMMARY:
 Measuring Point TOC Depth to Water 24.31 Depth to Product N/A Product Thickness N/A
 Total Casing Depth _____ Borehole Diameter _____ Approx. Pump Depth N/A Feet
 Screen Interval top _____ bottom _____ Feet

SAMPLING SUMMARY:
 Sampling Method: Grab Composite Grundfos Bladder Pump Peristaltic Pump Bailor

Pump Started 1250 Pump Stopped 1326 Total 2.25 gal Litter

Time (24-hr)	Temp (°C) ±3%	DO (mg/L) ±10%	SC (uS/cm) ±3%	pH (S.U.) ±0.1	ORP (mV) ±10	Turb. (NTU) ±10	DTW (ft) ±3%	Drawdown (ft)	Flow Rate (ml/min) <250
<u>1250</u>	<u>21.194</u>	<u>1.41</u>	<u>2010</u>	<u>6.39</u>	<u>-66.9</u>	<u>96.36</u>	—	—	—
<u>1300</u>	<u>21.254</u>	<u>1.45</u>	<u>2042</u>	<u>6.34</u>	<u>-55.9</u>	<u>66.95</u>	—	—	—
<u>1315</u>	<u>19.691</u>	<u>2.30</u>	<u>2034</u>	<u>6.26</u>	<u>-48.7</u>	<u>66.17</u>	—	—	—
<u>1325</u>	<u>20.208</u>	<u>2.79</u>	<u>2084</u>	<u>6.24</u>	<u>-40.6</u>	<u>58.34</u>	—	—	—

Final:
 Time 1325 Temp 20.208 DO 2.79 SC 2084 pH 6.24 ORP -40.6 Turb. 58.34 DTW _____ Drawdown _____ Flow Rate _____

Comments: One well volume $\Rightarrow [32-24.31](0.092) = 0.71$ gallons
Three well volumes $\Rightarrow 3(0.71) = 2.13$ gallons

Sample Name ATR-MW 68(32)-6072518 Time 1325

Analyses (check) Bottle #/Type Preservative VOCs <input checked="" type="checkbox"/> <u>316</u> <u>1</u> Dissolved Gasses <input checked="" type="checkbox"/> <u>316</u> <u>6</u> TOC + NO ₃ <input checked="" type="checkbox"/> <u>1/P</u> <u>3</u> VFA <input type="checkbox"/> _____ Fe/Mn <input type="checkbox"/> _____ DHC <input type="checkbox"/> _____ Alkalinity + Anions (Cl-, SO ₄) <input type="checkbox"/> _____	Bottle Type: G = Glass P = Poly Preservative Codes: 1 = HCL 4 = NaOH 2 = HNO ₃ 5 = BAC 3 = H ₂ SO ₄ 6 = Na ₃ PO ₄
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Other: _____ Other: _____
 MS/MSD _____ Blind Dup _____ Blind Dup Name _____ TB _____

GROUNDWATER/SURFACE WATER SAMPLING FORM



Wood Environment & Infrastructure Solutions, Inc.

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location TFS Rochester Surface Water Groundwater Sample ID ATR-MW 71(33)
 Project Number 3359-15-1040 (Use: Well name)
 Sampling Personnel JAN Date 7-25-18 Start Time 1040 Weather indoors

MEASUREMENT SUMMARY:

Measuring Point FOC Depth to Water 24.02 Depth to Product N/A Product Thickness N/A
 Total Casing Depth _____ Borehole Diameter _____ Approx. Pump Depth N/A Feet
 Screen Interval top _____ bottom _____ Feet

SAMPLING SUMMARY:

Sampling Method: Grab Composite Grundfos Bladder Pump Peristaltic Pump Bailor

Pump Started 1050 Pump Stopped 1133 Total 2.5 gal / Liter

Time (24-hr)	Temp (°C) ±3%	DO (mg/L) ±10%	SC (uS/cm) ±3%	pH (S.U.) ±0.1	ORP (mV) ±10	Turb. (NTU) ±10	DTW (ft) ±3%	Drawdown (ft)	Flow Rate (ml/min) <250
<u>1050</u>	<u>21.056</u>	<u>1.01</u>	<u>2108</u>	<u>6.32</u>	<u>-98.1</u>	<u>91.22</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>1115</u>	<u>18.44</u>	<u>1.92</u>	<u>2162</u>	<u>6.10</u>	<u>-93.4</u>	<u>128.14</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>1123</u>	<u>18.917</u>	<u>3.02</u>	<u>2881</u>	<u>5.98</u>	<u>-93.4</u>	<u>122.67</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>1130</u>	<u>21.089</u>	<u>2.00</u>	<u>2855</u>	<u>5.99</u>	<u>-94.7</u>	<u>109.44</u>	<u>—</u>	<u>—</u>	<u>—</u>

Final:

Time	Temp	DO	SC	pH	ORP	Turb.	DTW	Drawdown	Flow Rate
<u>1130</u>	<u>21.089</u>	<u>2.00</u>	<u>2855</u>	<u>5.99</u>	<u>-94.7</u>	<u>109.44</u>	<u>—</u>	<u>—</u>	<u>—</u>

Comments: One well volume => (33-24.02)(0.092) = 0.83 gallons
Three well volumes => (0.83) * 3 = 2.49 gallons

Sample Name ATR-MW 71(33)-G072518 Time 1130

Analyses (check) Bottle #/Type Preservative Bottle #/Type Preservative
 VOCs 3/G 1 Dissolved Gasses 3/G 6
 TOC + NO₃ 1/P 3 VFA _____
 Fe/Mn _____ DHC _____
 Alkalinity + Anions (Cl-, SO₄) _____
 Other: _____ Other: _____

MS/MSD _____ Blind Dup _____ Blind Dup Name _____ TB _____

Bottle Type:
 G = Glass
 P = Poly
 Preservative Codes:
 1 = HCL 4 = NaOH
 2 = HNO₃ 5 = BAC
 3 = H₂SO₄ 6 = Na₃PO₄

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location TFS Rochester Surface Water Groundwater Sample ID ATR-MW 72(32)
 Project Number 3359-15-1040 (Use: Well name)
 Sampling Personnel JAM Date 7-25-18 Start Time 0940 Weather indoors

MEASUREMENT SUMMARY:

Measuring Point TOC Depth to Water 23.80 Depth to Product N/A Product Thickness N/A
 Total Casing Depth _____ Borehole Diameter _____ Approx. Pump Depth N/A Feet
 Screen Interval top bottom Feet

SAMPLING SUMMARY:

Sampling Method: Grab Composite Grundfos Bladder Pump Peristaltic Pump Bailor

Pump Started 0945 Pump Stopped 1025 Total 2.5 gal/ Liter

Time (24-hr)	Temp (°C) ±3%	DO (mg/L) ±10%	SC (uS/cm) ±3%	pH (S.U.) ±0.1	ORP (mV) ±10	Turb. (NTU) ±10	DTW (ft) ±3%	Drawdown (ft)	Flow Rate (ml/min) <250
<u>1000</u>	<u>22.029</u>	<u>0.85</u>	<u>2295</u>	<u>6.34</u>	<u>-103.9</u>	<u>103.10</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>1020</u>	<u>20.919</u>	<u>1.69</u>	<u>2371</u>	<u>6.38</u>	<u>-105.4</u>	<u>93.11</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>1020</u>	<u>20.696</u>	<u>2.64</u>	<u>2379</u>	<u>6.45</u>	<u>-91.9</u>	<u>122.36</u>	<u>—</u>	<u>—</u>	<u>—</u>

Final:

Time	Temp	DO	SC	pH	ORP	Turb.	DTW	Drawdown	Flow Rate
<u>1020</u>	<u>20.696</u>	<u>2.64</u>	<u>2379</u>	<u>6.45</u>	<u>-91.9</u>	<u>122.36</u>	<u>—</u>	<u>—</u>	<u>—</u>

Comments: One well volume => [32 - 23.08] (0.092) = 0.82 gallons
Three well volumes => (0.82) 3 = 2.46 gallons

Sample Name ATR-MW 72(32) 9072578 Time 1025

Analyses (check)	Bottle #/Type	Preservative	Bottle #/Type	Preservative
VOCs <input checked="" type="checkbox"/>	<u>3/G</u>	<u>1</u>	Dissolved Gasses <input checked="" type="checkbox"/>	<u>3/G</u> <u>6</u>
TOC + NO ₃ <input checked="" type="checkbox"/>	<u>1/P</u>	<u>3</u>	VFA <input type="checkbox"/>	_____
Fe/Mn <input type="checkbox"/>	_____	_____	DHC <input type="checkbox"/>	_____
Other: <input type="checkbox"/>	_____	_____	Alkalinity + Anions (Cl-, SO ₄) <input type="checkbox"/>	_____
Other: <input type="checkbox"/>	_____	_____	Other: <input type="checkbox"/>	_____

MS/MSD _____ Blind Dup _____ Blind Dup Name _____ TB _____

Bottle Type:
 G = Glass
 P = Poly

Preservative Codes:
 1 = HCL 4 = NaOH
 2 = HNO₃ 5 = BAC
 3 = H₂SO₄ 6 = Na₃PO₄



GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location TFS Rochester Surface Water Groundwater Sample ID ATR-MW76(30)
Project Number 3359-15-1040 (Use: Well name)
Sampling Personnel KA Date 7/25/18 Start Time 1150 Weather N/A - INSIDE BUILDING

MEASUREMENT SUMMARY:

Measuring Point TOC Depth to Water 24.13 Depth to Product N/A Product Thickness N/A
Total Casing Depth 30.68 Borehole Diameter Feet Approx. Pump Depth 27.5 Feet
Screen Interval top bottom Feet

SAMPLING SUMMARY:

Sampling Method: Grab Composite Grundfos Bladder Pump Peristaltic Pump Bailor

Pump Started 1158 Pump Stopped 1254 Total 11.8 gal Liter

Table with 10 columns: Time (24-hr), Temp (°C), DO (mg/L), SC (uS/cm), pH (S.U.), ORP (mV), Turb. (NTU), DTW (ft), Drawdown (ft), Flow Rate (ml/min). Rows include data for times 1200 through 1235.

Final: Table with 10 columns: Time, Temp, DO, SC, pH, ORP, Turb., DTW, Drawdown, Flow Rate. Values for 1240.

Comments: PUMP SET @ 20 PSI, 4 CPM, REFILL = 10.5, DISCHARGE = 4.5
WATER IS SLIGHTLY EFFERVESCENT

Sample Name ATR-MW76(30)-G072518-R Time 1240
Analyses (check) Bottle #/Type Preservative
VOCs 6/G 1 Dissolved Gasses 6/G 6
TOC 2/P 3 VFA
Fe/Mn DHC
Alkalinity + Anions (Cl-, SO4)
Other: Other:
Bottle Type: G = Glass, P = Poly
Preservative Codes: 1 = HCL, 4 = NaOH, 2 = HNO3, 5 = BAC, 3 = H2SO4, 6 = Na3PO4
MS/MSD Blind Dup Blind Dup Name TB



GROUNDWATER/SURFACE WATER SAMPLING FORM

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location TFS Rochester Surface Water Groundwater Sample ID ATR-MW 77(41)
 Project Number 3359-15-1040 (Use: Well name)
 Sampling Personnel KA Date 7/25/18 Start Time 1437 Weather N/A - INSIDE BUILDING Temp = 82°F

MEASUREMENT SUMMARY:

Measuring Point TOC Depth to Water 24.36 Depth to Product N/A Product Thickness N/A
 Total Casing Depth 40.65 Borehole Diameter — Approx. Pump Depth 37.5 Feet
 Screen Interval top bottom Feet

SAMPLING SUMMARY:

Sampling Method: Grab Composite Grundfos Bladder Pump Peristaltic Pump Bailer

Pump Started 1450 Pump Stopped 1345 Total 23 (gal) / Liter

Time (24-hr)	Temp (°C)	DO (mg/L)	SC (uS/cm)	pH (S.U.)	ORP (mV)	Turb. (NTU)	DTW (ft)	Drawdown (ft)	Flow Rate (ml/min)
	±3%	±10%	±3%	±0.1	±10	±10	±3%		<250
<u>1455</u>	<u>19.774</u>	<u>0.45</u>	<u>384.1</u>	<u>6.91</u>	<u>-59.5</u>	<u>36.13</u>	<u>24.38</u>	<u>0.02</u>	<u>200</u>
<u>1500</u>	<u>19.753</u>	<u>0.25</u>	<u>400.7</u>	<u>6.97</u>	<u>-84.1</u>	<u>29.47</u>	<u>24.37</u>	<u>0.01</u>	<u>200</u>
<u>1505</u>	<u>19.596</u>	<u>0.20</u>	<u>397.6</u>	<u>7.05</u>	<u>-92.1</u>	<u>44.06</u>	<u>24.38</u>	<u>0.02</u>	<u>200</u>
<u>1510</u>	<u>19.646</u>	<u>0.17</u>	<u>390.9</u>	<u>7.11</u>	<u>-108.4</u>	<u>35.97</u>	<u>24.40</u>	<u>0.04</u>	<u>200</u>
<u>1515</u>	<u>19.612</u>	<u>0.24</u>	<u>388.4</u>	<u>7.15</u>	<u>-114.8</u>	<u>22.47</u>	<u>24.38</u>	<u>0.02</u>	<u>200</u>
<u>1520</u>	<u>19.407</u>	<u>0.15</u>	<u>387.3</u>	<u>7.17</u>	<u>-119.1</u>	<u>6.15</u>	<u>24.37</u>	<u>0.01</u>	<u>200</u>
<u>1525</u>	<u>19.461</u>	<u>0.14</u>	<u>387.9</u>	<u>7.18</u>	<u>-121.2</u>	<u>4.82</u>	<u>24.39</u>	<u>0.03</u>	<u>200</u>
<u>1530</u>	<u>19.462</u>	<u>0.15</u>	<u>387.1</u>	<u>7.19</u>	<u>-123.2</u>	<u>5.86</u>	<u>24.36</u>	<u>0.00</u>	<u>200</u>
<u>1535</u>	<u>19.510</u>	<u>0.14</u>	<u>387.2</u>	<u>7.20</u>	<u>-124.7</u>	<u>3.88</u>	<u>24.36</u>	<u>0.00</u>	<u>200</u>

Final:

Time	Temp	DO	SC	pH	ORP	Turb.	DTW	Drawdown	Flow Rate
<u>1540</u>	<u>19.466</u>	<u>0.14</u>	<u>385.4</u>	<u>7.20</u>	<u>-126.0</u>	<u>8.32</u>	<u>24.38</u>	<u>0.02</u>	<u>200</u>

Comments: PUMP SET @ ~30 PSI, 4 CPM, REFILL = 10, DISCHARGE = S.O. FLOW-THRU CELL
CONTAINS SMALL BUBBLES AND MAY BE AFFECTING TURBIDITY.

Sample Name ATR-MW 77(41)-G072518 Time 1540 Bottle Type:

Analyses (check) Bottle #/Type Preservative VOCs <input checked="" type="checkbox"/> <u>3/G</u> <u>1</u> TOC <input checked="" type="checkbox"/> <u>1/P</u> <u>3</u> Fe/Mn <input type="checkbox"/> _____ Other: <input type="checkbox"/> _____	Dissolved Gasses <input checked="" type="checkbox"/> <u>3/G</u> <u>6</u> VFA <input type="checkbox"/> _____ DHC <input type="checkbox"/> _____ Alkalinity + Anions (Cl-, SO4) <input type="checkbox"/> _____ Other: <input type="checkbox"/> _____	G = Glass P = Poly Preservative Codes: 1 = HCL 4 = NaOH 2 = HNO3 5 = BAC 3 = H2SO4 6 = Na3PO4
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MS/MSD _____ Blind Dup _____ Blind Dup Name _____ TB _____

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location TFS Rochester Surface Water Groundwater Sample ID ATR-MW 78(35)
 Project Number 3359-15-1040 (Use: Well name)
 Sampling Personnel KA Date 7/25/18 Start Time 1314 Weather N/A - INSIDE BUILDING

MEASUREMENT SUMMARY:
 Measuring Point Tox Depth to Water 24.31 w/pump Depth to Product N/A Product Thickness N/A
 Total Casing Depth 36.25 Borehole Diameter _____ Approx. Pump Depth 32.5 Feet
 Screen Interval top _____ bottom _____ Feet

SAMPLING SUMMARY:
 Sampling Method: Grab Composite Grundfos Bladder Pump Peristaltic Pump Bailer
 Pump Started 1320 Pump Stopped 1412 Total 2.5 gal / Liter

Time (24-hr)	Temp (°C) ±3%	DO (mg/L) ±10%	SC (uS/cm) ±3%	pH (S.U.) ±0.1	ORP (mV) ±10	Turb. (NTU) ±10	DTW (ft) ±3%	Drawdown (ft)	Flow Rate (ml/min) <250
<u>1335</u>	<u>17.987</u>	<u>0.16</u>	<u>543</u>	<u>6.77</u>	<u>-45.7</u>	<u>91.77</u>	<u>24.31</u>	<u>0.00</u>	<u>200</u>
<u>1340</u>	<u>17.667</u>	<u>0.10</u>	<u>536</u>	<u>6.81</u>	<u>-56.7</u>	<u>1782.9</u>	<u>24.33</u>	<u>0.02</u>	<u>200</u>
<u>1345</u>	<u>17.654</u>	<u>0.08</u>	<u>540</u>	<u>6.83</u>	<u>-61.0</u>	<u>9.50</u>	<u>24.33</u>	<u>0.02</u>	<u>200</u>
<u>1350</u>	<u>17.516</u>	<u>0.05</u>	<u>540</u>	<u>6.85</u>	<u>-64.6</u>	<u>13.43</u>	<u>24.33</u>	<u>0.02</u>	<u>200</u>
<u>1355</u>	<u>17.525</u>	<u>0.03</u>	<u>540</u>	<u>6.87</u>	<u>-67.6</u>	<u>19.96</u>	<u>24.32</u>	<u>0.01</u>	<u>200</u>
<u>1400</u>	<u>17.536</u>	<u>0.03</u>	<u>546</u>	<u>6.86</u>	<u>-68.8</u>	<u>17.71</u>	<u>24.31</u>	<u>0.00</u>	<u>200</u>
<u>1405</u>	<u>17.633</u>	<u>0.03</u>	<u>547</u>	<u>6.86</u>	<u>-69.8</u>	<u>11.74</u>	<u>24.32</u>	<u>0.01</u>	<u>200</u>

Final:
 Time 1405 Temp 17.633 DO 0.03 SC 547 pH 6.86 ORP -69.8 Turb. 11.74 DTW 24.32 Drawdown 0.01 Flow Rate 200

Comments: WATER IS SLIGHTLY EFFERVESCENT.

Sample Name ATR-MW78(35)-G072518-1435 @ 1435 - 3 VOCs, 3 DISSOLVED GASES, 2 TOC Time 1405
 Analyses (check) Bottle #/Type Preservative Bottle #/Type Preservative
 VOCs 3/G _____ Dissolved Gases 3/G _____
 TOC + ~~MSD~~ 1/P _____ VFA _____
 Fe/Mn _____ DHC _____
 Alkalinity + Anions (Cl-, SO4) _____
 Other: _____ Other: _____
 MS/MSD _____ Blind Dup _____ Blind Dup Name _____ TB _____

Bottle Type:
 G = Glass
 P = Poly
 Preservative Codes:
 1 = HCL 4 = NaOH
 2 = HNO3 5 = BAC
 3 = H2SO4 6 = Na3PO4

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location TFS Rochester Surface Water Groundwater Sample ID ATR-MW-6012615
 Project Number 3359-15-1040 (Use: Well name)
 Sampling Personnel GLD Date 7/26/18 Start Time 0800 Weather Cloudy

MEASUREMENT SUMMARY:
 Measuring Point 70C Depth to Water 25.42 Depth to Product _____ Product Thickness _____
 Total Casing Depth 37.28 Borehole Diameter _____ Approx. Pump Depth 36 Feet
 Screen Interval _____ top _____ bottom _____ Feet

SAMPLING SUMMARY:

Sampling Method: Grab Composite Grundfos Bladder Pump Peristaltic Pump Bailor
 Pump Started 0810 Pump Stopped _____ Total 7 gal (Liter)

Time (24-hr)	Temp (°C) ±3%	DO (mg/L) ±10%	SC (uS/cm) ±3%	pH (S.U.) ±0.1	ORP (mV) ±10	Turb. (NTU) ±10	DTW (ft) ±3%	Drawdown (ft)	Flow Rate (ml/min) <250
<u>0815</u>	<u>17.65</u>	<u>1.21</u>	<u>785</u>	<u>6.19</u>	<u>-3.5</u>	<u>17.39</u>	<u>25.42</u>	<u>0.0</u>	<u>200</u>
<u>0820</u>	<u>17.27</u>	<u>0.73</u>	<u>791</u>	<u>6.38</u>	<u>-42.4</u>	<u>23.25</u>	<u>25.42</u>	<u>0.0</u>	<u>u</u>
<u>0825</u>	<u>17.60</u>	<u>0.91</u>	<u>768</u>	<u>6.53</u>	<u>-56.4</u>	<u>25.14</u>	<u>25.42</u>	<u>0.0</u>	<u>u</u>
<u>0830</u>	<u>17.62</u>	<u>0.89</u>	<u>765</u>	<u>6.56</u>	<u>-59.1</u>	<u>33.62</u>	<u>25.42</u>	<u>0.0</u>	<u>u</u>
<u>0835</u>	<u>18.16</u>	<u>0.90</u>	<u>767</u>	<u>6.60</u>	<u>-62.5</u>	<u>5.84</u>	<u>25.42</u>	<u>0.0</u>	<u>u</u>
<u>0840</u>	<u>18.30</u>	<u>0.93</u>	<u>765</u>	<u>6.63</u>	<u>-64.7</u>	<u>6.87</u>	<u>25.42</u>	<u>0.0</u>	<u>u</u>
<u>0845</u>	<u>18.29</u>	<u>0.89</u>	<u>767</u>	<u>6.64</u>	<u>-65.9</u>	<u>9.74</u>	<u>25.42</u>	<u>0.0</u>	<u>11</u>

Final:
 Time 0845 Temp 18.29 DO 0.88 SC 767 pH 6.64 ORP 65.9 Turb. 9.74 DTW 25.42 Drawdown 0.0 Flow Rate 210

Comments: 0830 removed air bubble from cell

Sample Name ATR-MW-6012615 Time 0845 Bottle Type: _____
 Analyses (check) Bottle #/Type Preservative
 VOCs 316 1 Dissolved Gasses 316 6
 TOC + NO₃ 11P 3 VFA _____
 Fe/Mn _____ Alkalinity + Anions (Cl-, SO₄) _____
 Other: _____ Other: _____
 MS/MSD _____ Blind Dup _____ Blind Dup Name _____ TB _____

Bottle Type:

G = Glass
P = Poly

Preservative Codes:

1 = HCL 4 = NaOH
2 = HNO₃ 5 = BAC
3 = H₂SO₄ 6 = Na₃PO₄



GROUNDWATER/SURFACE WATER SAMPLING FORM

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location TFS Rochester Surface Water Groundwater Sample ID ATR-MW 12
 Project Number 3359-15-1040 (Use: Well name)
 Sampling Personnel VA Date 7/26/10 Start Time 0806 Weather 68°F MOSTLY CLOUDY
WIND TO EAST @ 3 mph

MEASUREMENT SUMMARY:
 Measuring Point TOC Depth to Water 23.56 Depth to Product N/A Product Thickness N/A
 Total Casing Depth 27.25 Borehole Diameter --- Approx. Pump Depth N/A Feet
 Screen Interval top bottom Feet

SAMPLING SUMMARY:
 Sampling Method: Grab Composite Grundfos Bladder Pump Peristaltic Pump Bailor
 Pump Started 0810 Pump Stopped --- Total 0.5 gal Liter

Time (24-hr)	Temp (°C) ±3%	DO (mg/L) ±10%	SC (uS/cm) ±3%	pH (S.U.) ±0.1	ORP (mV) ±10	Turb. (NTU) ±10	DTW (ft) ±3%	Drawdown (ft)	Flow Rate (ml/min) <250
<u>0845</u>	<u>19.672</u>	<u>6.31</u>	<u>760</u>	<u>6.95</u>	<u>-32.8</u>	<u>69.19</u>	<u>23.58</u>	<u>0.02</u>	<u>N/A</u>
<u>0855</u>	<u>19.229</u>	<u>6.52</u>	<u>766</u>	<u>6.91</u>	<u>-58.5</u>	<u>76.23</u>	<u>23.58</u>	<u>0.02</u>	<u>N/A</u>
<u>0905</u>	<u>18.594</u>	<u>5.83</u>	<u>758</u>	<u>6.88</u>	<u>-83.4</u>	<u>69.76</u>	<u>23.58</u>	<u>0.02</u>	<u>N/A</u>

Final: Time	Temp	DO	SC	pH	ORP	Turb.	DTW	Drawdown	Flow Rate

Comments: 3.69 x 3 x 0.041 = 0.454 gal purge volume (total)

Sample Name ATR-MW 12 - G072618 Time 0910

Analyses (check) Bottle #/Type Preservative VOCs <input checked="" type="checkbox"/> <u>3/G</u> <u>1</u> Dissolved Gasses <input checked="" type="checkbox"/> <u>3/G</u> <u>6</u> TOC + NO ₃ <input checked="" type="checkbox"/> <u>1/P</u> <u>3</u> VFA <input type="checkbox"/> <u>---</u> <u>---</u> Fe/Mn <input type="checkbox"/> <u>---</u> <u>---</u> DHC <input type="checkbox"/> <u>---</u> <u>---</u> Alkalinity + Anions (Cl-, SO4) <input type="checkbox"/> <u>---</u> <u>---</u>	Bottle Type: G = Glass P = Poly Preservative Codes: 1 = HCL 4 = NaOH 2 = HNO ₃ 5 = BAC 3 = H ₂ SO ₄ 6 = Na ₃ PO ₄
--	--

Other: --- Other: ---

MS/MSD --- Blind Dup --- Blind Dup Name --- TB ---

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location TFS Rochester Surface Water Groundwater Sample ID ATR-MW 13
 Project Number 3359-15-1040 (Use: Well name)
 Sampling Personnel JAN Date 7-26-18 Start Time 0905 Weather clear, 70°F

MEASUREMENT SUMMARY:
 Measuring Point TOC Depth to Water 22.78 Depth to Product N/A Product Thickness N/A
 Total Casing Depth 28.13 Borehole Diameter _____ Approx. Pump Depth N/A Feet
 Screen Interval top bottom _____ Feet

SAMPLING SUMMARY:
 Sampling Method: Grab Composite Grundfos Bladder Pump Peristaltic Pump Bailor

Pump Started 0905 Pump Stopped _____ Total 1 gal / Liter

Time (24-hr)	Temp (°C) ±3%	DO (mg/L) ±10%	SC (uS/cm) ±3%	pH (S.U.) ±0.1	ORP (mV) ±10	Turb. (NTU) ±10	DTW (ft) ±3%	Drawdown (ft)	Flow Rate (ml/min) <250
<u>0945</u>	<u>18.243</u>	<u>3.25</u>	<u>354.1</u>	<u>6.70</u>	<u>-87.5</u>	<u>51.07</u>			<u>N/A</u>
<u>0955</u>	<u>17.509</u>	<u>2.75</u>	<u>357.7</u>	<u>6.70</u>	<u>-89.5</u>	<u>49.19</u>			<u>N/A</u>
<u>1005</u>	<u>19.313</u>	<u>3.47</u>	<u>804</u>	<u>6.78</u>	<u>-97.6</u>	<u>50.04</u>			<u>N/A</u>

Final:

Time	Temp	DO	SC	pH	ORP	Turb.	DTW	Drawdown	Flow Rate

Comments: One well volume => (28.13 - 22.78) (0.041) = 0.22 gallons
Three well volumes => 3(0.22) = 0.66 gallons

ATR-MW13-G072618-EB @ 1000 3VOLS, 1 TOC, 3 DISSOLVED GASES (ANALYZED BY JSM)

Sample Name ATR-MW 13-G072618 Time 1010 Bottle Type: _____

Analyses (check)	Bottle #/Type	Preservative	Bottle #/Type	Preservative
VOCs <input checked="" type="checkbox"/>	<u>3/G</u>	<u>1</u>	Dissolved Gasses <input checked="" type="checkbox"/>	<u>3/G</u> <u>6</u>
TOC + NO ₃ <input checked="" type="checkbox"/>	<u>1/P</u>	<u>3</u>	VFA <input type="checkbox"/>	_____
Fe/Mn <input type="checkbox"/>	_____	_____	DHC <input type="checkbox"/>	_____
Other: <input type="checkbox"/>	_____	_____	Alkalinity + Anions (Cl-, SO ₄) <input type="checkbox"/>	_____
MS/MSD <input type="checkbox"/>	Blind Dup _____	Blind Dup Name _____	Other: <input type="checkbox"/>	_____

Bottle Type: G = Glass, P = Poly
 Preservative Codes: 1 = HCL, 4 = NaOH, 2 = HNO₃, 5 = BAC, 3 = H₂SO₄, 6 = Na₃PO₄

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location TFS Rochester Surface Water Groundwater Sample ID ATR-MW 62(36)
 Project Number 3359-15-1040 (Use: Well name)
 Sampling Personnel JFA Date 7-24-08 Start Time 1700 Weather clear, 76°F

MEASUREMENT SUMMARY:
 Measuring Point TDC Depth to Water 25.71 Depth to Product N/A Product Thickness N/A
 Total Casing Depth 835.69 Borehole Diameter _____ Approx. Pump Depth 34 Feet
 Screen Interval _____ top _____ bottom _____ Feet

SAMPLING SUMMARY:
 Sampling Method: Grab Composite Grundfos Bladder Pump Peristaltic Pump Bailor
 Pump Started 1712 Pump Stopped 1745 Total 1.5 (gal / Liter)

Time (24-hr)	Temp (°C) ±3%	DO (mg/L) ±10%	SC (uS/cm) ±3%	pH (S.U.) ±0.1	ORP (mV) ±10	Turb. (NTU) ±10	DTW (ft) ±3%	Drawdown (ft)	Flow Rate (ml/min) <250
<u>1720</u>	<u>18.49</u>	<u>0.27</u>	<u>374.9</u>	<u>7.14</u>	<u>-140.9</u>	<u>2.00</u>	<u>25.71</u>	<u>0.00</u>	<u>160</u>
<u>1725</u>	<u>17.402</u>	<u>0.10</u>	<u>374.0</u>	<u>7.14</u>	<u>-142.2</u>	<u>1.88</u>	<u>25.71</u>	<u>0.00</u>	<u>160</u>
<u>1730</u>	<u>17.527</u>	<u>0.07</u>	<u>372.2</u>	<u>7.14</u>	<u>-143.2</u>	<u>2.07</u>	<u>25.71</u>	<u>0.00</u>	<u>160</u>
<u>1735</u>	<u>17.395</u>	<u>0.07</u>	<u>373.9</u>	<u>7.13</u>	<u>-143.5</u>	<u>1.64</u>	<u>25.71</u>	<u>0.00</u>	<u>160</u>

Final:
 Time 1735 Temp 17.395 DO 0.07 SC 373.9 pH 7.13 ORP -143.5 Turb. 1.64 DTW 25.71 Drawdown 0.00 Flow Rate 160

Comments: _____

Sample Name ATR-MW(62(36))-6072418-1740 Time 1740

Analyses (check) Bottle #/Type Preservative Bottle #/Type Preservative
 VOCs 3/G 1 Dissolved Gases 3/G 6
 TOC + NO₃ 1/P 3 VFA _____
 Fe/Mn _____ DHC _____
 Alkalinity + Anions (Cl-, SO₄) _____
 Other: _____ Other: _____

MS/MSD _____ Blind Dup _____ Blind Dup Name _____ TB _____

Bottle Type:
 G = Glass
 P = Poly
 Preservative Codes:
 1 = HCL 4 = NaOH
 2 = HNO₃ 5 = BAC
 3 = H₂SO₄ 6 = Na₃PO₄



GROUNDWATER/SURFACE WATER SAMPLING FORM

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location TFS Rochester Surface Water Groundwater Sample ID ATR-MW 20(35)
 Project Number 3359-15-1040 (Use: Well name)
 Sampling Personnel Satan Date 7-24-18 Start Time 1400 Weather clear, 78°F

MEASUREMENT SUMMARY:

Measuring Point TOC Depth to Water 25.39 Depth to Product N/A Product Thickness N/A
 Total Casing Depth 34.52 Borehole Diameter _____ Approx. Pump Depth 33 Feet
 Screen Interval top _____ bottom _____ Feet

SAMPLING SUMMARY:

Sampling Method: Grab Composite Grundfos Bladder Pump Peristaltic Pump Bailor

Pump Started 1407 Pump Stopped 1420 Total 2 ^(gal) Liter

Time (24-hr)	Temp (°C) ±3%	DO (mg/L) ±10%	SC (uS/cm) ±3%	pH (S.U.) ±0.1	ORP (mV) ±10	Turb. (NTU) ±10	DTW (ft) ±3%	Drawdown (ft)	Flow Rate (ml/min) <250
<u>1415</u>	<u>17.549</u>	<u>0.42</u>	<u>522</u>	<u>6.84</u>	<u>-77.5</u>	<u>7.82</u>	<u>25.39</u>	<u>0.00</u>	<u>200</u>
<u>1420</u>	<u>17.404</u>	<u>0.30</u>	<u>602</u>	<u>6.84</u>	<u>-89.5</u>	<u>8.44</u>	<u>25.39</u>	<u>0.00</u>	<u>200</u>
<u>1425</u>	<u>17.383</u>	<u>0.21</u>	<u>623</u>	<u>6.84</u>	<u>-93.6</u>	<u>12.23</u>	<u>25.39</u>	<u>0.00</u>	<u>200</u>
<u>1430</u>	<u>17.322</u>	<u>0.16</u>	<u>665</u>	<u>6.85</u>	<u>-98.7</u>	<u>5.21</u>	<u>25.39</u>	<u>0.00</u>	<u>200</u>
<u>1435</u>	<u>17.331</u>	<u>0.09</u>	<u>684</u>	<u>6.86</u>	<u>-100.8</u>	<u>4.62</u>	<u>25.39</u>	<u>0.00</u>	<u>200</u>
<u>1440</u>	<u>17.280</u>	<u>0.08</u>	<u>691</u>	<u>6.86</u>	<u>-101.3</u>	<u>6.73</u>	<u>25.39</u>	<u>0.00</u>	<u>200</u>
<u>1445</u>	<u>17.392</u>	<u>0.06</u>	<u>699</u>	<u>6.85</u>	<u>-102.4</u>	<u>6.91</u>	<u>25.39</u>	<u>0.00</u>	<u>200</u>
<u>1450</u>	<u>17.133</u>	<u>0.04</u>	<u>701</u>	<u>6.86</u>	<u>-102.6</u>	<u>5.23</u>	<u>25.39</u>	<u>0.00</u>	<u>200</u>

Final:

Time	Temp	DO	SC	pH	ORP	Turb.	DTW	Drawdown	Flow Rate
<u>1450</u>	<u>17.133</u>	<u>0.04</u>	<u>701</u>	<u>6.86</u>	<u>-102.6</u>	<u>5.23</u>	<u>25.39</u>	<u>0.00</u>	<u>200</u>

Comments: _____

Sample Name ATR-MW 20(35)-6072418-1455 Time 1455
 Analyses (check) Bottle #/Type Preservative
 VOCs 3/G 1 Dissolved Gasses 3/G 6
 TOC + NO₃ 1/P 3 VFA _____
 Fe/Mn _____ DHC _____
 Alkalinity + Anions (Cl-, SO₄) _____
 Other: _____ Other: _____

Bottle Type:
 G = Glass
 P = Poly
 Preservative Codes:
 1 = HCL 4 = NaOH
 2 = HNO₃ 5 = BAC
 3 = H₂SO₄ 6 = Na₃PO₄

MS/MSD _____ Blind Dup _____ Blind Dup Name _____ TB _____



GROUNDWATER/SURFACE WATER SAMPLING FORM

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location TFS Rochester Surface Water Groundwater Sample ID ATR-MW-20(51)
 Project Number 3359-15-1040 (Use: Well name)
 Sampling Personnel JAN Date 7-24-18 Start Time 1510 Weather clear, 70°F

MEASUREMENT SUMMARY:
 Measuring Point TC Depth to Water 25.37 Depth to Product N/A Product Thickness N/A
 Total Casing Depth 50.58 Borehole Diameter _____ Approx. Pump Depth 49 Feet
 Screen Interval top _____ bottom _____ Feet

SAMPLING SUMMARY:
 Sampling Method: Grab Composite Grundfos Bladder Pump Peristaltic Pump Bailor
 Pump Started 1518 Pump Stopped 1623 Total 2.5 gal/Liter

Time (24-hr)	Temp (°C) ±3%	DO (mg/L) ±10%	SC (uS/cm) ±3%	pH (S.U.) ±0.1	ORP (mV) ±10	Turb. (NTU) ±10	DTW (ft) ±3%	Drawdown (ft)	Flow Rate (ml/min) <250
<u>1530</u>	<u>19.323</u>	<u>0.59</u>	<u>274.8</u>	<u>7.31</u>	<u>-128.6</u>	<u>54.91</u>	<u>25.39</u>	<u>0.02</u>	<u>200</u>
<u>1535</u>	<u>19.097</u>	<u>0.35</u>	<u>276.0</u>	<u>7.26</u>	<u>-124.5</u>	<u>28.81</u>	<u>25.39</u>	<u>0.02</u>	<u>200</u>
<u>1540</u>	<u>19.164</u>	<u>0.31</u>	<u>308.5</u>	<u>7.20</u>	<u>-123.0</u>	<u>12.53</u>	<u>25.39</u>	<u>0.02</u>	<u>180</u>
<u>1545</u>	<u>18.866</u>	<u>0.31</u>	<u>336.9</u>	<u>7.18</u>	<u>-123.9</u>	<u>11.17</u>	<u>25.39</u>	<u>0.02</u>	<u>180</u>
<u>1550</u>	<u>18.972</u>	<u>0.23</u>	<u>358.9</u>	<u>7.18</u>	<u>-126.7</u>	<u>11.95</u>	<u>25.38</u>	<u>0.01</u>	<u>180</u>
<u>1555</u>	<u>19.105</u>	<u>0.20</u>	<u>379.0</u>	<u>7.19</u>	<u>-129.9</u>	<u>10.84</u>	<u>25.38</u>	<u>0.01</u>	<u>180</u>
<u>1600</u>	<u>19.152</u>	<u>0.14</u>	<u>393.1</u>	<u>7.20</u>	<u>-133.3</u>	<u>8.87</u>	<u>25.38</u>	<u>0.01</u>	<u>180</u>
<u>1605</u>	<u>18.885</u>	<u>0.12</u>	<u>400.2</u>	<u>7.20</u>	<u>-135.4</u>	<u>11.68</u>	<u>25.38</u>	<u>0.01</u>	<u>180</u>
<u>1610</u>	<u>19.135</u>	<u>0.12</u>	<u>405.9</u>	<u>7.19</u>	<u>-137.9</u>	<u>7.47</u>	<u>25.38</u>	<u>0.01</u>	<u>180</u>

Final:
 Time 1610 Temp 19.135 DO 0.12 SC 405.9 pH 7.19 ORP -137.9 Turb. 7.47 DTW 25.38 Drawdown 0.01 Flow Rate 180

Comments: _____

Sample Name ATR-MW-20(51)-9072418-1615 Time 1615

Analyses (check)	Bottle #/Type	Preservative	Bottle #/Type	Preservative
VOCs <input checked="" type="checkbox"/>	<u>3/G</u>	_____	Dissolved Gasses <input checked="" type="checkbox"/>	<u>3/G</u> <u>6e</u>
TOC + NO ₃ <input checked="" type="checkbox"/>	<u>1/P</u>	_____	VFA <input type="checkbox"/>	_____
Fe/Mn <input type="checkbox"/>	_____	_____	DHC <input type="checkbox"/>	_____
Other: <input type="checkbox"/>	_____	_____	Alkalinity + Anions (Cl-, SO ₄) <input type="checkbox"/>	_____
MS/MSD _____	Blind Dup _____	Blind Dup Name _____	TB _____	_____

Bottle Type:
 G = Glass
 P = Poly

Preservative Codes:
 1 = HCL 4 = NaOH
 2 = HNO₃ 5 = BAC
 3 = H₂SO₄ 6 = Na₃PO₄



GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location TFS Rochester Surface Water Groundwater Sample ID ATR-MW 82(58)
 Project Number 3359-15-1040 (Use: Well name)
 Sampling Personnel KA Date 7/24/18 Start Time 1534 Weather 84°F PARTLY CLOUDY
WIND TO SOUTH @ 2 mph

MEASUREMENT SUMMARY:
 Measuring Point TDC Depth to Water 22.43 w/pump Depth to Product N/A Product Thickness N/A
 Total Casing Depth 58.30 Borehole Diameter — Approx. Pump Depth 55.5 Feet
 Screen Interval top bottom Feet

SAMPLING SUMMARY:
 Sampling Method: Grab Composite Grundfos Bladder Pump Peristaltic Pump Bailor

Pump Started 1549 Pump Stopped 1700 Total 4 (gal) / Liter

Time (24-hr)	Temp (°C) ±3%	DO (mg/L) ±10%	SC (uS/cm) ±3%	pH (S.U.) ±0.1	ORP (mV) ±10	Turb. (NTU) ±10	DTW (ft) ±3%	Drawdown (ft)	Flow Rate (ml/min) <250
<u>1555</u>	<u>18.728</u>	<u>1.16</u>	<u>736</u>	<u>6.76</u>	<u>-81.1</u>	<u>128.83</u>	<u>22.44</u>	<u>0.01</u>	<u>200</u>
<u>1600</u>	<u>18.238</u>	<u>0.25</u>	<u>737</u>	<u>6.82</u>	<u>-102.1</u>	<u>113.12</u>	<u>22.45</u>	<u>0.02</u>	<u>200</u>
<u>1605</u>	<u>17.157</u>	<u>0.07</u>	<u>737</u>	<u>6.86</u>	<u>-114.2</u>	<u>127.85</u>	<u>22.43</u>	<u>0.00</u>	<u>200</u>
<u>1610</u>	<u>17.390</u>	<u>0.06</u>	<u>729</u>	<u>6.87</u>	<u>-117.8</u>	<u>137.66</u>	<u>22.43</u>	<u>0.00</u>	<u>200</u>
<u>1615</u>	<u>17.432</u>	<u>0.05</u>	<u>722</u>	<u>6.87</u>	<u>-121.5</u>	<u>143.25</u>	<u>22.43</u>	<u>0.00</u>	<u>200</u>
<u>1620</u>	<u>17.388</u>	<u>0.09</u>	<u>744</u>	<u>6.89</u>	<u>-123.1</u>	<u>57.16</u>	<u>22.44</u>	<u>0.01</u>	<u>200</u>
<u>1625</u>	<u>17.356</u>	<u>0.10</u>	<u>738</u>	<u>6.88</u>	<u>-122.7</u>	<u>27.84</u>	<u>22.43</u>	<u>0.00</u>	<u>200</u>
<u>1630</u>	<u>17.119</u>	<u>0.14</u>	<u>742</u>	<u>6.89</u>	<u>-122.5</u>	<u>18.03</u>	<u>22.43</u>	<u>0.00</u>	<u>200</u>
<u>1635</u>	<u>17.105</u>	<u>0.15</u>	<u>748</u>	<u>6.89</u>	<u>-122.1</u>	<u>18.93</u>	<u>22.44</u>	<u>0.01</u>	<u>200</u>
<u>1640</u>	<u>17.048</u>	<u>0.14</u>	<u>748</u>	<u>6.89</u>	<u>-121.4</u>	<u>20.18</u>	<u>22.43</u>	<u>0.00</u>	<u>200</u>
<u>1645</u>	<u>16.921</u>	<u>0.12</u>	<u>748</u>	<u>6.90</u>	<u>-122.5</u>	<u>11.79</u>	<u>22.43</u>	<u>0.00</u>	<u>200</u>
<u>1650</u>	<u>17.195</u>	<u>0.14</u>	<u>750</u>	<u>6.89</u>	<u>-122.0</u>	<u>8.39</u>	<u>22.43</u>	<u>0.00</u>	<u>200</u>
						<u>10.46 (21)</u>			

Final:

Time	Temp	DO	SC	pH	ORP	Turb.	DTW	Drawdown	Flow Rate
<u>1655</u>	<u>17.227</u>	<u>0.16</u>	<u>757</u>	<u>6.89</u>	<u>-121.6</u>	<u>10.18</u>	<u>22.43</u>	<u>0.00</u>	<u>150</u>

Comments: GROUNDWATER DESCRIPTION: NO COLOR, 40% SUSPEND PARTICULATES ~ 2mm To 4mm IN SIZE. NO ODR.
PUMP SET @ 25 PSI, 3 CPM, REFILL = 5.0, DISCHARGE = 15.0. FLOW-THRU CELL CONTAINS LARGE AMOUNTS
OF BUBBLES, MAY BE AFFECTING TURBIDITY

Sample Name ATR-MW 82(58)-G072418 Time 1655

Analyses (check) Bottle #/Type Preservative

VOCs <input checked="" type="checkbox"/>	<u>3/G</u>	<u>1</u>	Dissolved Gasses <input checked="" type="checkbox"/>	<u>3/G</u>	<u>6</u>
TOC + NO ₃ <input checked="" type="checkbox"/>	<u>1/P</u>	<u>3</u>	VFA <input type="checkbox"/>		
Fe/Mn <input type="checkbox"/>			DHC <input type="checkbox"/>		
Other: <input type="checkbox"/>			Alkalinity + Anions (Cl-, SO4) <input type="checkbox"/>		
MS/MSD <input type="checkbox"/>			Other: <input type="checkbox"/>		

Bottle Type: G = Glass, P = Poly
 Preservative Codes: 1 = HCL, 4 = NaOH, 2 = HNO₃, 5 = BAC, 3 = H₂SO₄, 6 = Na₃PO₄

Blind Dup _____ Blind Dup Name _____ TB _____



GROUND-WATER/SURFACE WATER SAMPLING FORM

EB Time 1140

Project Location TFS Rochester Surface Water Groundwater Sample ID ATR-MW-0W1(28)
 Project Number 3359-15-1040 (Use: Well name)
 Sampling Personnel GLD Date _____ Start Time 1030 Weather Sunny 75°F

MEASUREMENT SUMMARY:
 Measuring Point TOC Depth to Water 20.28 Depth to Product _____ Product Thickness _____
 Total Casing Depth 27.70 Borehole Diameter _____ Approx. Pump Depth 27 Feet
 Screen Interval _____ top _____ bottom _____ Feet

SAMPLING SUMMARY:
 Sampling Method: Grab Composite Grundfos Bladder Pump Peristaltic Pump Bailer
 Pump Started 1035 Pump Stopped 1131 Total 12.5 gal / Liter

Time (24-hr)	Temp (°C) ±3%	DO (mg/L) ±10%	SC (uS/cm) ±3%	pH (S.U.) ±0.1	ORP (mV) ±10	Turb. (NTU) ±10	DTW (ft) ±3%	Drawdown (ft)	Flow Rate (ml/min) <250
1040	15.83	0.22	848	6.80	-124.7	14.39	20.31	.03	250
1045	15.63	0.37	807	6.81	-121.6	15.96	20.32	.04	
1050	15.64	0.49	795	6.80	-125.7	12.95	20.30	1.02	
1055	15.59	0.62	788	6.80	-122.4	13.110	20.30	1.02	
1100	16.07	0.76	782	6.79	-118.9	11.11	20.29	1.01	
1105	16.43	0.86	787	6.78	-114.9	9.87	20.29	1.01	
1110	16.66	0.95	783	6.78	-114.9	8.62	20.29	1.01	
1115	15.54	0.96	780	6.79	-114.0	7.66	20.29	1.01	
1120	15.34	0.99	776	6.75	-112.6	6.29	20.29	1.01	
1125	15.28	1.02	777	6.78	-111.8	6.30	20.29	1.01	

Final:
 Time 1125 Temp 15.28 DO 1.02 SC 777 pH 6.78 ORP -111.8 Turb. 6.30 DTW 20.29 Drawdown 1.01 Flow Rate 250

Comments: Equipment Blank taken after sample 0W1(28) - G072418
labeled 0W1(28) - G072418 - EB Time 1140

Sample Name ATR-MW-0W1(28)-G072418 Time 1125

Analyses (check)	Bottle #/Type	Preservative	Bottle #/Type	Preservative
VOCs <input checked="" type="checkbox"/>	<u>61G</u>	<u>1</u>	Dissolved Gasses <input checked="" type="checkbox"/>	<u>61G</u>
TOC + NO ₃ <input checked="" type="checkbox"/>	<u>4P</u>	<u>3</u>	VFA <input type="checkbox"/>	
Fe/Mn <input type="checkbox"/>			DHC <input type="checkbox"/>	
Other: <input type="checkbox"/>			Alkalinity + Anions (Cl-, SO4) <input type="checkbox"/>	

MS/MSD _____ Blind Dup _____ Blind Dup Name _____ TB _____

Bottle Type:
 G = Glass
 P = Poly
 Preservative Codes:
 1 = HCL 4 = NaOH
 2 = HNO₃ 5 = BAC
 3 = H₂SO₄ 6 = Na₃PO₄

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location TFS Rochester Surface Water Groundwater Sample ID ATR-~~MSD~~ OW1(39)
 Project Number 3359-15-1040 (Use: Well name)
 Sampling Personnel CLO Date 7/24/18 Start Time 0935 Weather Sunny 74°F

MEASUREMENT SUMMARY:
 Measuring Point TOC Depth to Water 20.23 Depth to Product _____ Product Thickness _____
 Total Casing Depth 38.66 Borehole Diameter _____ Approx. Pump Depth 36.15 Feet
 Screen Interval top bottom _____ Feet

SAMPLING SUMMARY:
 Sampling Method: Grab Composite Grundfos Bladder Pump Peristaltic Pump Bailor
 Pump Started 0940 Pump Stopped 1018 Total 9 gal (Liter)

Time (24-hr)	Temp (°C) ±3%	DO (mg/L) ±10%	SC (uS/cm) ±3%	pH (S.U.) ±0.1	ORP (mV) ±10	Turb. (NTU) ±10	DTW (ft) ±3%	Drawdown (ft)	Flow Rate (ml/min) <250
<u>0945</u>	<u>15.57</u>	<u>0.86</u>	<u>569</u>	<u>7.14</u>	<u>-126.4</u>	<u>376</u>	<u>20.24</u>	<u>.01</u>	<u>250</u>
<u>0950</u>	<u>15.38</u>	<u>0.11</u>	<u>562</u>	<u>7.14</u>	<u>-153.5</u>	<u>584</u>	<u>20.24</u>	<u>.01</u>	
<u>0955</u>	<u>15.38</u>	<u>0.08</u>	<u>551</u>	<u>7.15</u>	<u>-154.3</u>	<u>399</u>	<u>20.24</u>	<u>.01</u>	
<u>1000</u>	<u>15.41</u>	<u>0.07</u>	<u>536</u>	<u>7.17</u>	<u>-154.7</u>	<u>211</u>	<u>20.24</u>	<u>.01</u>	
<u>1005</u>	<u>15.33</u>	<u>0.10</u>	<u>533</u>	<u>7.18</u>	<u>-153.1</u>	<u>1.54</u>	<u>20.25</u>	<u>.02</u>	
<u>1010</u>	<u>15.35</u>	<u>0.10</u>	<u>532</u>	<u>7.18</u>	<u>-152.1</u>	<u>1.46</u>	<u>20.25</u>	<u>.02</u>	
<u>1015</u>	<u>15.30</u>	<u>0.11</u>	<u>530</u>	<u>7.18</u>	<u>-151.0</u>	<u>1.46</u>	<u>20.24</u>	<u>.01</u>	

Final:
 Time 1015 Temp 15.30 DO 0.11 SC 530 pH 7.18 ORP -151.0 Turb. 1.46 DTW 20.24 Drawdown .01 Flow Rate 250

Comments: _____

Sample Name ATR-~~MSD~~ OW1(39)-G072418 Time 1015

Analyses (check)	Bottle #/Type	Preservative	Bottle #/Type	Preservative
VOCs <input checked="" type="checkbox"/>	<u>3/G</u>	<u>1</u>	Dissolved Gasses <input checked="" type="checkbox"/>	<u>3/G</u>
TOC + NO ₃ <input checked="" type="checkbox"/>	<u>1/B</u>	<u>3</u>	VFA <input type="checkbox"/>	
Fe/Mn <input type="checkbox"/>			DHC <input type="checkbox"/>	
Other: <input type="checkbox"/>			Alkalinity + Anions (Cl-, SO ₄) <input type="checkbox"/>	
Other: <input type="checkbox"/>			Other: <input type="checkbox"/>	

MS/MSD _____ Blind Dup _____ Blind Dup Name _____ TB _____

Bottle Type:
 G = Glass
 P = Poly
 Preservative Codes:
 1 = HCL 4 = NaOH
 2 = HNO₃ 5 = BAC
 3 = H₂SO₄ 6 = Na₃PO₄



GROUNDWATER/SURFACE WATER SAMPLING FORM

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location TFS Rochester Surface Water Groundwater Sample ID ATR-MW 14
 Project Number 3359-15-1040 (Use: Well name)
 Sampling Personnel KA Date 7/24/18 Start Time 0940 Weather 72°F PARTLY CLOUDY,
WIND TO SOUTHEAST @ 3 mph

MEASUREMENT SUMMARY:

Measuring Point TOC Depth to Water 17.97' INITIAL Depth to Product N/A Product Thickness N/A
17.97' w/ PUMP
 Total Casing Depth 45.75 Borehole Diameter — Approx. Pump Depth 42.5 Feet
 Screen Interval top bottom Feet

SAMPLING SUMMARY:

Sampling Method: Grab Composite Grundfos Bladder Pump Peristaltic Pump Bailor

Pump Started 1000 Pump Stopped 1140 Total 2.5 (gal) Liter

Time (24-hr)	Temp (°C) ±3%	DO (mg/L) ±10%	SC (uS/cm) ±3%	pH (S.U.) ±0.1	ORP (mV) ±10	Turb. (NTU) ±10	DTW (ft) ±3%	Drawdown (ft)	Flow Rate (ml/min) <250
1015	16.013	0.23	612	7.02	-147.2	54.62	17.99	0.02	200
1020	16.199	0.27	609	7.04	-148.2	24.49	17.99	0.02	250
1025	16.465	0.34	609	7.04	-147.2	21.82	18.01	0.04	200
1030	15.997	0.30	608	7.06	-146.8	28.13	18.00	0.03	200
1035	16.486	0.30	602	7.05	-145.7	17.58	18.00	0.03	200
1040	17.370	0.37	603	7.04	-144.4	42.66	17.97	0.00	195
1045	17.942	0.30	599	7.05	-146.1	14.09	17.97	0.00	100 ←
1050	18.054	0.14	611	7.07	-150.8	11.83	17.98	0.01	100
1055	18.491	0.10	612	7.08	-155.2	11.08	17.98	0.01	100
1100	18.864	0.09	611	7.08	-157.6	11.26	17.98	0.01	100
1105	19.909	0.07	608	7.08	-162.2	10.38	17.98	0.01	100 ←
1110	21.047	0.07	608	7.08	-165.4	9.69	17.98	0.01	100
1115	19.165	0.07	616	7.11	-164.3	7.63	17.98	0.01	100
1120	18.837	0.06	615	7.10	-162.6	7.11	17.97	0.00	100
1125	18.435	0.05	615	7.09	-161.0	6.99	17.97	0.00	100
1130	18.901	0.04	612	7.08	-161.7	6.36	17.97	0.00	100

ADJUSTED FLOW RATE TO TRY TO REDUCE TURBIDITY
 DIRECT SUN PRESENT POSSIBLY AFFECTING TEMP.

Final:

Time 1135 Temp 19.112 DO 0.05 SC 614 pH 7.08 ORP -161.9 Turb. 6.64 DTW 17.97 Drawdown 0.00 Flow Rate 100

Comments: GROUNDWATER DESCRIPTION: NO COLOR, PARTICULATES ~~4000~~ < 1 mm IN SIZE (APPROX. 20% PARTICULATES IN SUSPENSION), SLIGHT SULFUR ODOR, PUMPSET @ 20 PSI, 3CPM, REFILL = 5.0, DISCHARGE = 15.0.

Sample Name ATR-MW14-G072418 Time 1135

Analyses (check) Bottle #/Type Preservative Bottle #/Type Preservative

VOCs 3/G 1 Dissolved Gasses 3/G 6

TOC 1/P 3 VFA _____

Fe/Mn _____ DHC _____

Alkalinity + Anions (Cl-, SO4) _____

Other: _____ Other: _____

MS/MSD _____ Blind Dup _____ Blind Dup Name _____ TB _____

Bottle Type:
 G = Glass
 P = Poly

Preservative Codes:
 1 = HCL 4 = NaOH
 2 = HNO₃ 5 = BAC
 3 = H₂SO₄ 6 = Na₃PO₄



GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location TFS Rochester Surface Water Groundwater Sample ID ATR-MW 24(24.9)
 Project Number 3359-15-1040 (Use: Well name)
 Sampling Personnel JAM Date 7-23-18 Start Time 1220 Weather cloudy, 72°F

MEASUREMENT SUMMARY:

Measuring Point TOC Depth to Water 20.19 Depth to Product N/A Product Thickness N/A
 Total Casing Depth 24.86 Borehole Diameter _____ Approx. Pump Depth 23 Feet
 Screen Interval top _____ bottom _____ Feet

SAMPLING SUMMARY:

Sampling Method: Grab Composite Grundfos Bladder Pump Peristaltic Pump Bailor

Pump Started 1228 Pump Stopped 1319 Total 2 gal / liter

Time (24-hr)	Temp (°C) ±3%	DO (mg/L) ±10%	SC (uS/cm) ±3%	pH (S.U.) ±0.1	ORP (mV) ±10	Turb. (NTU) ±10	DTW (ft) ±3%	Drawdown (ft)	Flow Rate (ml/min) <250
1235	14.873	0.24	610	7.26	-150.8	1.53	20.21	0.02	150
1240	14.757	0.23	608	7.31	-159.9	4.90	20.21	0.02	150
1245	14.482	0.08	610	7.32	-163.1	4.57	20.21	0.02	150
1250	14.477	0.05	610	7.33	-164.0	4.78	20.21	0.02	150
1255	14.535	0.03	610	7.33	-165.3	6.79	20.21	0.02	150
1300	14.539	0.02	610	7.33	-165.2	2.81	20.21	0.02	150
1305	14.377	0.01	611	7.33	-164.5	2.91	20.21	0.02	150
1310	14.354	0.01	610	7.33	-164.3	2.94	20.21	0.02	150

Final:

Time	Temp	DO	SC	pH	ORP	Turb.	DTW	Drawdown	Flow Rate
1310	14.354	0.01	610	7.33	-164.3	2.94	20.21	0.02	150

Comments: trouble to obtain water level during pumping due to placement of pump - JAM - Able to drop pump w/o hitting bottom

Sample Name ATR-MW 24(24.9)-6072318-1315 Time 1315

Analyses (check) VOCs TOC + NO₃ Fe/Mn
 Bottle #/Type 3/G Preservative 1
 Dissolved Gasses VFA DHC Alkalinity + Anions (Cl-, SO₄)
 Bottle #/Type 3/G Preservative 0

Bottle Type:
 G = Glass
 P = Poly
 Preservative Codes:
 1 = HCL 4 = NaOH
 2 = HNO₃ 5 = BAC
 3 = H₂SO₄ 6 = Na₃PO₄

Other: _____ Other: _____
 MS/MSD _____ Blind Dup _____ Blind Dup Name _____ TB _____

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location TFS Rochester Surface Water Groundwater Sample ID ATR-MW 24(55.4)
 Project Number 3359-15-1040 (Use: Well name)
 Sampling Personnel AM Date 7-23-18 Start Time 1330 Weather Cloudy, 72°F

MEASUREMENT SUMMARY:

Measuring Point TOC Depth to Water 20.18 Depth to Product N/A Product Thickness N/A
 Total Casing Depth 55.34 Borehole Diameter _____ Approx. Pump Depth 53 Feet
 Screen Interval top _____ bottom _____ Feet

SAMPLING SUMMARY:

Sampling Method: Grab Composite Grundfos Bladder Pump Peristaltic Pump Bailor

Pump Started 1333 Pump Stopped 1418 Total 2 gal Liter

Time (24-hr)	Temp (°C) ±3%	DO (mg/L) ±10%	SC (uS/cm) ±3%	pH (S.U.) ±0.1	ORP (mV) ±10	Turb. (NTU) ±10	DTW (ft) ±3%	Drawdown (ft)	Flow Rate (ml/min) <250
<u>1340</u>	<u>16.003</u>	<u>0.27</u>	<u>725</u>	<u>7.25</u>	<u>-170.7</u>	<u>3.70</u>	<u>20.27</u>	<u>0.09</u>	<u>120</u>
<u>1345</u>	<u>15.033</u>	<u>0.06</u>	<u>709</u>	<u>7.26</u>	<u>-177.9</u>	<u>3.58</u>	<u>20.27</u>	<u>0.09</u>	<u>150</u>
<u>1350</u>	<u>14.818</u>	<u>0.04</u>	<u>722</u>	<u>7.26</u>	<u>-176.5</u>	<u>2.06</u>	<u>20.27</u>	<u>0.09</u>	<u>150</u>
<u>1355</u>	<u>14.835</u>	<u>0.02</u>	<u>711</u>	<u>7.26</u>	<u>-175.9</u>	<u>2.98</u>	<u>20.27</u>	<u>0.09</u>	<u>150</u>
<u>1400</u>	<u>14.895</u>	<u>0.01</u>	<u>722</u>	<u>7.25</u>	<u>-175.8</u>	<u>2.47</u>	<u>20.27</u>	<u>0.09</u>	<u>150</u>
<u>1405</u>	<u>15.183</u>	<u>0.01</u>	<u>718</u>	<u>7.25</u>	<u>-175.3</u>	<u>4.76</u>	<u>20.27</u>	<u>0.09</u>	<u>150</u>

Final:

Time	Temp	DO	SC	pH	ORP	Turb.	DTW	Drawdown	Flow Rate
<u>1405</u>	<u>15.183</u>	<u>0.01</u>	<u>718</u>	<u>7.25</u>	<u>-175.3</u>	<u>4.76</u>	<u>20.27</u>	<u>0.09</u>	<u>150</u>

Comments: Obtained ATR-MW24(55.4)-G072318-1410-R

Sample Name ATR-MW 24(55.4)-G072318-1410 Time 1410

Analyses (check) Bottle #/Type Preservative Bottle #/Type Preservative

VOCs 6/G 1 Dissolved Gasses 6/G 6

TOC + NO₃ 2/P 3 VFA _____

Fe/Mn _____ DHC _____

Alkalinity + Anions (Cl-, SO₄) _____

Other: _____ Other: _____

MS/MSD _____ Blind Dup _____ Blind Dup Name _____ TB _____

Bottle Type:

G = Glass
P = Poly

Preservative Codes:

1 = HCL 4 = NaOH
2 = HNO₃ 5 = BAC
3 = H₂SO₄ 6 = Na₃PO₄

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location TFS Rochester Surface Water Groundwater Sample ID ATR-OW2(33)
 Project Number 3359-15-1040 (Use: Well name)
 Sampling Personnel JAm Date 7-23-18 Start Time 1505 Weather lt. rain, 69°F

MEASUREMENT SUMMARY:
 Measuring Point TOC Depth to Water 20.74 Depth to Product N/A Product Thickness N/A
 Total Casing Depth 32.66 Borehole Diameter _____ Approx. Pump Depth 31 Feet
 Screen Interval top _____ bottom _____ Feet

SAMPLING SUMMARY:
 Sampling Method: Grab Composite Grundfos Bladder Pump Peristaltic Pump Bailor

Pump Started 1516 Pump Stopped 1614 Total 2.5 (gal / Liter)

Time (24-hr)	Temp (°C) ±3%	DO (mg/L) ±10%	SC (uS/cm) ±3%	pH (S.U.) ±0.1	ORP (mV) ±10	Turb. (NTU) ±10	DTW (ft) ±3%	Drawdown (ft)	Flow Rate (ml/min) <250
1525	16.854	0.30	973	7.11	-148.1	13.46	20.75	0.01	120
1530	16.701	0.16	924	7.09	-144.2	7.21	20.76	0.02	200
1535	16.510	0.09	841	7.08	-142.7	8.33	20.75	0.01	200
1540	16.604	0.07	851	7.07	-142.4	6.82	20.75	0.01	200
1545	16.402	0.05	820	7.06	-140.6	4.49	20.75	0.01	200
1550	16.111	0.03	797	7.05	-138.4	5.54	20.75	0.01	200
1555	16.582	0.05	785	7.05	-137.7	3.47	20.75	0.01	200
1600	16.462	0.02	775	7.04	-137.5	3.47	20.75	0.01	200
1605	16.536	0.03	783	7.04	-137.0	4.71	20.75	0.01	200

Final:

Time	Temp	DO	SC	pH	ORP	Turb.	DTW	Drawdown	Flow Rate
<u>1605</u>	<u>16.536</u>	<u>0.03</u>	<u>783</u>	<u>7.04</u>	<u>-137.0</u>	<u>4.71</u>	<u>20.75</u>	<u>0.01</u>	<u>200</u>

Comments: _____

Sample Name ATR-OW(33)-6072318-1610 Time 1610

Analyses (check)	Bottle #/Type	Preservative	Bottle #/Type	Preservative
VOCs <input checked="" type="checkbox"/>	<u>3/G</u>	<u>1</u>	Dissolved Gasses <input checked="" type="checkbox"/>	<u>3/G</u>
TOC + NO ₃ <input checked="" type="checkbox"/>	<u>1/P</u>	<u>3</u>	VFA <input type="checkbox"/>	_____
Fe/Mn <input type="checkbox"/>	_____	_____	DHC <input type="checkbox"/>	_____
Other: <input type="checkbox"/>	_____	_____	Alkalinity + Anions (Cl-, SO ₄) <input type="checkbox"/>	_____
MS/MSD _____	Blind Dup _____	Blind Dup Name _____	TB _____	

Bottle Type:
 G = Glass
 P = Poly

Preservative Codes:
 1 = HCL 4 = NaOH
 2 = HNO₃ 5 = BAC
 3 = H₂SO₄ 6 = Na₃PO₄



GROUNDWATER/SURFACE WATER SAMPLING FORM

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location TFS Rochester Surface Water Groundwater Sample ID ATROW 2(55)
 Project Number 3359-15-1040 (Use: Well name)
 Sampling Personnel JAN Date 7-23-18 Start Time 1100 Weather clear, 70°F

MEASUREMENT SUMMARY:

Measuring Point TOC Depth to Water 20.69 Depth to Product N/A Product Thickness N/A
 Total Casing Depth 52.59 Borehole Diameter _____ Approx. Pump Depth 58.5 Feet
 Screen Interval top _____ bottom _____ Feet

SAMPLING SUMMARY:

Sampling Method: Grab Composite Grundfos Bladder Pump Peristaltic Pump Bailor
 Pump Started 1108 Pump Stopped 1150 Total 1.5 gal/Liter

Time (24-hr)	Temp (°C) ±3%	DO (mg/L) ±10%	SC (uS/cm) ±3%	pH (S.U.) ±0.1	ORP (mV) ±10	Turb. (NTU) ±10	DTW (ft) ±3%	Drawdown (ft)	Flow Rate (ml/min) <250
<u>1115</u>	<u>16.951</u>	<u>0.25</u>	<u>521</u>	<u>7.08</u>	<u>-152.7</u>	<u>2.03</u>	<u>20.70</u>	<u>0.01</u>	<u>180</u>
<u>1120</u>	<u>16.884</u>	<u>0.16</u>	<u>520</u>	<u>7.08</u>	<u>-152.4</u>	<u>3.76</u>	<u>20.70</u>	<u>0.01</u>	<u>180</u>
<u>1125</u>	<u>16.946</u>	<u>0.13</u>	<u>519</u>	<u>7.09</u>	<u>-154.5</u>	<u>3.51</u>	<u>20.70</u>	<u>0.01</u>	<u>180</u>
<u>1130</u>	<u>16.791</u>	<u>0.14</u>	<u>515</u>	<u>7.10</u>	<u>-155.8</u>	<u>3.23</u>	<u>20.70</u>	<u>0.01</u>	<u>180</u>
<u>1135</u>	<u>16.818</u>	<u>0.07</u>	<u>519</u>	<u>7.09</u>	<u>-153.9</u>	<u>2.71</u>	<u>20.70</u>	<u>0.01</u>	<u>180</u>
<u>1140</u>	<u>16.648</u>	<u>0.06</u>	<u>510</u>	<u>7.09</u>	<u>-155.0</u>	<u>2.43</u>	<u>20.70</u>	<u>0.01</u>	<u>180</u>

Final:

Time	Temp	DO	SC	pH	ORP	Turb.	DTW	Drawdown	Flow Rate
<u>1140</u>	<u>16.648</u>	<u>0.06</u>	<u>510</u>	<u>7.09</u>	<u>-155.0</u>	<u>2.43</u>	<u>20.70</u>	<u>0.01</u>	<u>180</u>

Comments: _____

Sample Name ATROW 2(55)G072318-1145 Time 1145

Analyses (check) Bottle #/Type Preservative

VOCs 3/G 1 Dissolved Gasses 3/G 6

TOC + NO₃ 1/P 3 VFA _____

Fe/Mn _____ DHC _____

Alkalinity + Anions (Cl-, SO₄) _____

Other: _____ Other: _____

MS/MSD _____ Blind Dup _____ Blind Dup Name _____ TB _____

Bottle Type:
 G = Glass
 P = Poly

Preservative Codes:
 1 = HCL 4 = NaOH
 2 = HNO₃ 5 = BAC
 3 = H₂SO₄ 6 = Na₃PO₄

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location TFS Rochester Surface Water Groundwater Sample ID ATROW 3 (35)
 Project Number 3359-15-1040 (Use: Well name)
 Sampling Personnel IAN Date 7-24-18 Start Time 0830 Weather overcast, 69°F

MEASUREMENT SUMMARY:
 Measuring Point TOC Depth to Water 17.11 Depth to Product N/A Product Thickness N/A
 Total Casing Depth 34.99 Borehole Diameter _____ Approx. Pump Depth 32.5 Feet
 Screen Interval top bottom _____ Feet

SAMPLING SUMMARY:
 Sampling Method: Grab Composite Grundfos Bladder Pump Peristaltic Pump Bailor
 Pump Started 0838 Pump Stopped 0930 Total 2 gal Liter

Time (24-hr)	Temp (°C) ±3%	DO (mg/L) ±10%	SC (uS/cm) ±3%	pH (S.U.) ±0.1	ORP (mV) ±10	Turb. (NTU) ±10	DTW (ft) ±3%	Drawdown (ft)	Flow Rate (ml/min) <250
<u>0845</u>	<u>15.321</u>	<u>0.62</u>	<u>683</u>	<u>6.97</u>	<u>-152.8</u>	<u>14.24</u>	<u>17.11</u>	<u>0.00</u>	<u>150</u>
<u>0850</u>	<u>15.003</u>	<u>0.70</u>	<u>680</u>	<u>7.09</u>	<u>-162.3</u>	<u>30.23</u>	<u>17.11</u>	<u>0.00</u>	<u>150</u>
<u>0855</u>	<u>14.994</u>	<u>0.50</u>	<u>676</u>	<u>7.04</u>	<u>-149.1</u>	<u>43.81</u>	<u>17.11</u>	<u>0.00</u>	<u>150</u>
<u>0900</u>	<u>14.820</u>	<u>0.15</u>	<u>665</u>	<u>7.13</u>	<u>-159.8</u>	<u>36.97</u>	<u>17.11</u>	<u>0.00</u>	<u>150</u>
<u>0905</u>	<u>14.855</u>	<u>0.12</u>	<u>659</u>	<u>7.15</u>	<u>-161.7</u>	<u>32.84</u>	<u>17.11</u>	<u>0.00</u>	<u>150</u>
<u>0910</u>	<u>14.863</u>	<u>0.10</u>	<u>653</u>	<u>7.16</u>	<u>-162.0</u>	<u>29.82</u>	<u>17.11</u>	<u>0.00</u>	<u>150</u>
<u>0915</u>	<u>14.667</u>	<u>0.08</u>	<u>646</u>	<u>7.17</u>	<u>-161.5</u>	<u>34.35</u>	<u>17.11</u>	<u>0.00</u>	<u>150</u>
<u>0920</u>	<u>14.766</u>	<u>0.08</u>	<u>641</u>	<u>7.17</u>	<u>-161.2</u>	<u>34.07</u>	<u>17.11</u>	<u>0.00</u>	<u>150</u>

Final:
 Time 0920 Temp 14.766 DO 0.08 SC 641 pH 7.17 ORP -161.2 Turb. 34.07 DTW 17.11 Drawdown 0.00 Flow Rate 150

Comments: MPSO sat @ ~20 PSI w/ 10/5 intervals

Sample Name ATROW 3(35)6072418-0925 Time 0925

Analyses (check)	Bottle #/Type	Preservative	Bottle #/Type	Preservative
VOCs <input checked="" type="checkbox"/>	<u>3/G</u>	<u>1</u>	Dissolved Gasses <input checked="" type="checkbox"/>	<u>3/G</u> <u>6</u>
TOC + NO ₃ <input checked="" type="checkbox"/>	<u>1/P</u>	<u>3</u>	VFA <input type="checkbox"/>	_____
Fe/Mn <input type="checkbox"/>	_____	_____	DHC <input type="checkbox"/>	_____
Other: <input type="checkbox"/>	_____	_____	Alkalinity + Anions (Cl-, SO ₄) <input type="checkbox"/>	_____
MS/MSD _____	Blind Dup _____	Blind Dup Name _____	Other: <input type="checkbox"/>	_____

Bottle Type: G = Glass, P = Poly
 Preservative Codes: 1 = HCL, 4 = NaOH, 2 = HNO₃, 5 = BAC, 3 = H₂SO₄, 6 = Na₃PO₄

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location TFS Rochester Surface Water Groundwater Sample ID ATR-0W3(55)
 Project Number 3359-15-1040 (Use: Well name)
 Sampling Personnel J.A.M. Date 7-24-18 Start Time 0940 Weather clear, 70°F

MEASUREMENT SUMMARY:

Measuring Point TOC Depth to Water 17.06 Depth to Product N/A Product Thickness N/A
 Total Casing Depth 54.86 Borehole Diameter _____ Approx. Pump Depth 52.5 Feet
 Screen Interval top _____ bottom _____ Feet

SAMPLING SUMMARY:

Sampling Method: Grab Composite Grundfos Bladder Pump Peristaltic Pump Bailor

Pump Started 0949 Pump Stopped 1055 Total 2.5 (2) gal/Liter

Time (24-hr)	Temp (°C) ±3%	DO (mg/L) ±10%	SC (uS/cm) ±3%	pH (S.U.) ±0.1	ORP (mV) ±10	Turb. (NTU) ±10	DTW (ft) ±3%	Drawdown (ft)	Flow Rate (ml/min) <250
<u>1000</u>	<u>16.288</u>	<u>0.19</u>	<u>874</u>	<u>6.67</u>	<u>-117.3</u>	<u>159.90</u>	<u>17.10</u>	<u>0.04</u>	<u>200</u>
<u>1005</u>	<u>16.343</u>	<u>0.11</u>	<u>900</u>	<u>6.74</u>	<u>-124.4</u>	<u>97.05</u>	<u>17.10</u>	<u>0.04</u>	<u>200</u>
<u>1010</u>	<u>16.645</u>	<u>0.08</u>	<u>903</u>	<u>6.81</u>	<u>-133.7</u>	<u>64.57</u>	<u>17.10</u>	<u>0.04</u>	<u>200</u>
<u>1015</u>	<u>16.315</u>	<u>0.08</u>	<u>895</u>	<u>6.90</u>	<u>-144.0</u>	<u>38.66</u>	<u>17.10</u>	<u>0.04</u>	<u>200</u>
<u>1020</u>	<u>16.288</u>	<u>0.06</u>	<u>878</u>	<u>6.95</u>	<u>-150.9</u>	<u>43.56</u>	<u>17.10</u>	<u>0.04</u>	<u>200</u>
<u>1025</u>	<u>16.367</u>	<u>0.05</u>	<u>898</u>	<u>6.96</u>	<u>-152.8</u>	<u>48.03</u>	<u>17.10</u>	<u>0.04</u>	<u>200</u>
<u>1030</u>	<u>16.144</u>	<u>0.04</u>	<u>885</u>	<u>6.98</u>	<u>-157.1</u>	<u>32.19</u>	<u>17.10</u>	<u>0.04</u>	<u>200</u>
<u>1035</u>	<u>16.104</u>	<u>0.04</u>	<u>870</u>	<u>7.02</u>	<u>-163.8</u>	<u>23.04</u>	<u>17.10</u>	<u>0.04</u>	<u>200</u>
<u>1040</u>	<u>16.309</u>	<u>0.04</u>	<u>861</u>	<u>7.00</u>	<u>-160.6</u>	<u>26.83</u>	<u>17.10</u>	<u>0.04</u>	<u>200</u>
<u>1045</u>	<u>16.104</u>	<u>0.03</u>	<u>863</u>	<u>7.01</u>	<u>-162.2</u>	<u>24.26</u>	<u>17.10</u>	<u>0.04</u>	<u>200</u>

Final:

Time	Temp	DO	SC	pH	ORP	Turb.	DTW	Drawdown	Flow Rate
<u>1045</u>	<u>16.104</u>	<u>0.03</u>	<u>863</u>	<u>7.01</u>	<u>-162.2</u>	<u>24.26</u>	<u>17.10</u>	<u>0.04</u>	<u>200</u>

Comments: UNDER EXTREME PRESSURE!

Sample Name ATR-0W3(55)-6072418-1050 Time 1050

Analyses (check)	Bottle #/Type	Preservative	Bottle #/Type	Preservative
VOCs <input checked="" type="checkbox"/>	<u>3/G</u>	<u>1</u>	Dissolved Gases <input checked="" type="checkbox"/>	<u>3/G</u> <u>6</u>
TOC + NO ₃ <input checked="" type="checkbox"/>	<u>1/P</u>	<u>3</u>	VFA <input type="checkbox"/>	_____
Fe/Mn <input type="checkbox"/>	_____	_____	DHC <input type="checkbox"/>	_____
Other: <input type="checkbox"/>	_____	_____	Alkalinity + Anions (Cl-, SO ₄) <input type="checkbox"/>	_____
MS/MSD _____	Blind Dup _____	Blind Dup Name _____	TB _____	

Bottle Type:
 G = Glass
 P = Poly

Preservative Codes:
 1 = HCL 4 = NaOH
 2 = HNO₃ 5 = BAC
 3 = H₂SO₄ 6 = Na₃PO₄

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location TFS Rochester Surface Water Groundwater Sample ID ATR-MW15
 Project Number 3359-15-1040 (Use: Well name)
 Sampling Personnel KA Date 7/23/18 Start Time 1320 Weather 73°F, CLOUDY, LIGHT RAIN,
WIND TO SOUTH @ 2 mph

MEASUREMENT SUMMARY:
 Measuring Point TOC Depth to Water 8.98' INITIAL Depth to Product N/A Product Thickness N/A
 Total Casing Depth 54.20 Borehole Diameter - Approx. Pump Depth 51.5 Feet
 Screen Interval top - bottom - Feet

SAMPLING SUMMARY:
 Sampling Method: Grab Composite Grundfos Bladder Pump Peristaltic Pump Bailor

Pump Started 1336p Pump Stopped 1440 Total 2.5 (gal) Liter

Time (24-hr)	Temp (°C) ±3%	DO (mg/L) ±10%	SC (uS/cm) ±3%	pH (S.U.) ±0.1	ORP (mV) ±10	Turb. (NTU) ±10	DTW (ft) ±3%	Drawdown (ft)	Flow Rate (ml/min) <250
1350	16.56	0.53	1657	6.56	-107.2	106.2	9.00	0.02	175
1355	16.13	1.32	1666	6.55	-98.4	93.4	8.98	0.00	175
1400	16.72	1.05	1688	6.54	-97.0	63.6	8.98	0.00	175
1405	17.13	1.13	1709	6.53	-95.6	37.0	8.98	0.00	175
1410	17.50	1.42	1725	6.54	-93.3	28.9	8.99	0.01	175
1415	17.73	1.57	1731	6.54	-92.4	14.1	8.98	0.00	175
1420	18.45	1.80	1742	6.55	-92.5	11.4	8.99	0.01	175
1425	18.15	1.85	1742	6.55	-92.5	4.91	8.99	0.01	175
1430	18.31	1.87	1746	6.55	-92.3	3.97	8.98	0.00	175

Final:

Time	Temp	DO	SC	pH	ORP	Turb.	DTW	Drawdown	Flow Rate
1435	18.44	1.90	1749	6.55	-92.7	5.36	8.98	0.00	175

Comments: GROUNDWATER IS CLEAR, EFFERVESCENT, SLIGHT SANITARY SEWER-LIKE ODOR. CONTAINS SLIGHT GREEN
PUMP SET @ ~25 PSI, 3 CPM, REFILL = 5.0, DISCHARGE = 15.00.

EQUIPMENT BLANK: ATR-MW15-G072318-EB TIME: 1500 3 VOCs, 1 TOC, 3 Dissolved gases (Bottles)

Sample Name ATR-MW15-G072318 Time 1435

Analyses (check) Bottle #/Type Preservative Bottle #/Type Preservative

VOCs 3/G 1 Dissolved Gasses 3/G 6

TOC 1/P 3 VFA

Fe/Mn DHC

Alkalinity + Anions (Cl-, SO4)

Other: Other:

MS/MSD Blind Dup Blind Dup Name TB

Bottle Type:
 G = Glass
 P = Poly

Preservative Codes:
 1 = HCL 4 = NaOH
 2 = HNO₃ 5 = BAC
 3 = H₂SO₄ 6 = Na₃PO₄

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location TFS Rochester Surface Water Groundwater Sample ID ATR-MW25(16.4)
 Project Number 3359-15-1040 (Use: Well name)
 Sampling Personnel KA Date 7/23/18 Start Time 1044 Weather 72°F MOSTLY CLOUDY
 WIND 0 mph

MEASUREMENT SUMMARY:
 Measuring Point TOC Depth to Water 7.71' INITIAL Depth to Product N/A Product Thickness N/A
 Total Casing Depth 15.71 Borehole Diameter Approx. Pump Depth 12.5 Feet
 Screen Interval top bottom Feet

SAMPLING SUMMARY:
 Sampling Method: Grab Composite Grundfos Bladder Pump Peristaltic Pump Bailor

Pump Started 1054 Pump Stopped 1200 Total 3 gal Liter

Time (24-hr)	Temp (°C) ±3%	DO (mg/L) ±10%	SC (uS/cm) ±3%	pH (S.U.) ±0.1	ORP (mV) ±10	Turb. (NTU) ±10	DTW (ft) ±3%	Drawdown (ft)	Flow Rate (ml/min) <250
1100	17.20	0.20	943	6.83	-125.5	58.1	7.74	0.03	250
1105	17.28	0.15	955	6.83	-127.0	25.9	7.75	0.04	175
1110	15.80	0.06	941	6.83	-124.6	43.6	7.73	0.02	175
1115	15.72	0.08	943	6.83	-123.1	15.2	7.72	0.01	175
1120	15.81	0.08	940	6.82	-122.6	8.9	7.74	0.03	175
1125	15.43	0.11	941	6.82	-122.0	8.7	7.74	0.03	175
1130	15.33	0.18	939	6.82	-120.6	7.1	7.74	0.03	175
1135	15.16	0.23	937	6.82	-119.2	6.4	7.74	0.03	175
1140	15.25	0.28	938	6.82	-117.3	4.8	7.76	0.05	175
1145	15.34	0.30	939	6.82	-116.7	7.0	7.75	0.04	175
1150	15.30	0.30	938	6.82	-116.0	6.2	7.74	0.03	175

Final:

Time	Temp	DO	SC	pH	ORP	Turb.	DTW	Drawdown	Flow Rate
1155	15.35	0.32	937	6.82	-115.8	5.5	7.75	0.04	175

Comments: WATER CLEAR W/ 5% ORANGE-BROWN PARTICULATES APPROX. 3mm IN SIZE. MANY SMALL BUBBLES CLINGING TO FLOW-THRU CELL. PUMP SET @ 10 PSI, 3CPM, RE-FILL = 5.0, DISCHARGE = 15.0 SLIGHT ORGANIC ODOR

Sample Name ATR-MW25(16.4)-G072318 Time 1155 Bottle Type:

Analyses (check)	Bottle #/Type	Preservative	Bottle #/Type	Preservative
VOCs <input checked="" type="checkbox"/>	<u>3/G</u>	<u>1</u>	Dissolved Gases <input checked="" type="checkbox"/>	<u>3/G</u>
TOC <input checked="" type="checkbox"/>	<u>1/P</u>	<u>3</u>	VFA <input type="checkbox"/>	<u> </u>
Fe/Mn <input type="checkbox"/>	<u> </u>	<u> </u>	DHC <input type="checkbox"/>	<u> </u>
Other: <input type="checkbox"/>	<u> </u>	<u> </u>	Alkalinity + Anions (Cl-, SO4) <input type="checkbox"/>	<u> </u>
MS/MSD <u> </u>	Blind Dup <u> </u>	Blind Dup Name <u> </u>	Other: <input type="checkbox"/>	TB <u> </u>

Bottle Type: G = Glass, P = Poly
 Preservative Codes: 1 = HCL, 4 = NaOH, 2 = HNO₃, 5 = BAC, 3 = H₂SO₄, 6 = Na₃PO₄

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location TFS Rochester Surface Water Groundwater Sample ID ATR-MW25 (32.6)
 Project Number 3359-15-1040 (Use: Well name)
 Sampling Personnel KA Date 7/23/18 Start Time 1202 Weather 73°F CLOUDY WIND TO SOUTHEAST @ 3 mph

MEASUREMENT SUMMARY:
 Measuring Point TOC Depth to Water 7.71' INITIAL Depth to Product N/A Product Thickness N/A
 Total Casing Depth 31.89 Borehole Diameter - Approx. Pump Depth 28.5 Feet
 Screen Interval top - bottom - Feet

SAMPLING SUMMARY:
 Sampling Method: Grab Composite Grundfos Bladder Pump Peristaltic Pump Bailor

Pump Started 1209 Pump Stopped 1250 Total 2 gal Liter

Time (24-hr)	Temp (°C) ±3%	DO (mg/L) ±10%	SC (uS/cm) ±3%	pH (S.U.) ±0.1	ORP (mV) ±10	Turb. (NTU) ±10	DTW (ft) ±3%	Drawdown (ft)	Flow Rate (ml/min) <250
<u>1215</u>	<u>15.23</u>	<u>2.62</u>	<u>783</u>	<u>6.76</u>	<u>-103.4</u>	<u>106.5</u>	<u>7.74</u>	<u>0.03</u>	<u>300</u>
<u>1220</u>	<u>15.00</u>	<u>0.32</u>	<u>792</u>	<u>6.76</u>	<u>-106.8</u>	<u>53.9</u>	<u>7.73</u>	<u>0.02</u>	<u>275</u>
<u>1225</u>	<u>16.46</u>	<u>0.20</u>	<u>800</u>	<u>6.75</u>	<u>-110.0</u>	<u>30.8</u>	<u>7.72</u>	<u>0.01</u>	<u>150</u>
<u>1230</u>	<u>15.70</u>	<u>0.19</u>	<u>800</u>	<u>6.76</u>	<u>-110.5</u>	<u>24.6</u>	<u>7.72</u>	<u>0.01</u>	<u>150</u>
<u>1235</u>	<u>15.51</u>	<u>0.18</u>	<u>799</u>	<u>6.76</u>	<u>-110.2</u>	<u>18.9</u>	<u>7.73</u>	<u>0.02</u>	<u>150</u>
<u>1240</u>	<u>15.49</u>	<u>0.18</u>	<u>796</u>	<u>6.76</u>	<u>-109.8</u>	<u>11.6</u>	<u>7.73</u>	<u>0.02</u>	<u>150</u>

Final:

Time	Temp	DO	SC	pH	ORP	Turb.	DTW	Drawdown	Flow Rate
<u>1245</u>	<u>15.43</u>	<u>0.19</u>	<u>796</u>	<u>6.76</u>	<u>109.8</u>	<u>9.5</u>	<u>7.73</u>	<u>0.02</u>	<u>150</u>

Comments: GROUNDWATER CLEAR W/ ~5% ORANGE-BROWN PARTICULATES RANGING FROM 1-5 mm IN SIZE. PUMP SET AT 15 PSI, 3 CPM, REFILL = 5.0, DISCHARGE = 15.0.

Sample Name ATR-MW25 (32.6) - G072318 Time 1245

Analyses (check)	Bottle #/Type	Preservative	Bottle #/Type	Preservative
VOCs <input checked="" type="checkbox"/>	<u>3/G</u>	<u>1</u>	Dissolved Gasses <input checked="" type="checkbox"/>	<u>3/G</u> <u>6</u>
TOC <input checked="" type="checkbox"/>	<u>1/P</u>	<u>3</u>	VFA <input type="checkbox"/>	
Fe/Mn <input type="checkbox"/>			DHC <input type="checkbox"/>	
			Alkalinity + Anions (Cl-, SO4) <input type="checkbox"/>	
Other: <input type="checkbox"/>			Other: <input type="checkbox"/>	

MS/MSD _____ Blind Dup _____ Blind Dup Name _____ TB _____

Bottle Type:
 G = Glass
 P = Poly

Preservative Codes:
 1 = HCL 4 = NaOH
 2 = HNO₃ 5 = BAC
 3 = H₂SO₄ 6 = Na₃PO₄

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location TFS Rochester Surface Water Groundwater Sample ID ATR-MW25(45.2)
 Project Number 3359-15-1040 (Use: Well name)
 Sampling Personnel KA Date 7/24/18 Start Time 0820 Weather 70°F MOSTLY CLOUDY
WIND TO EAST @ 2 mph

MEASUREMENT SUMMARY:
 Measuring Point TOC Depth to Water 7.99' INITIAL Depth to Product N/A Product Thickness N/A
 Total Casing Depth 44.81 Borehole Diameter - Approx. Pump Depth 41.5 Feet
 Screen Interval top bottom Feet

SAMPLING SUMMARY:
 Sampling Method: Grab Composite Grundfos Bladder Pump Peristaltic Pump Bailor

Pump Started 0840 Pump Stopped 0922 Total 2.5 (gal) Liter

Time (24-hr)	Temp (°C)	DO (mg/L)	SC (uS/cm)	pH (S.U.)	ORP (mV)	Turb. (NTU)	DTW (ft)	Drawdown (ft)	Flow Rate (ml/min)
	±3%	±10%	±3%	±0.1	±10	±10	±3%		<250
<u>0845</u>	<u>17.623</u>	<u>0.49</u>	<u>1125</u>	<u>6.48</u>	<u>-108.8</u>	<u>25.39</u>	<u>8.04</u>	<u>0.05</u>	<u>200</u>
<u>0850</u>	<u>16.013</u>	<u>0.19</u>	<u>1319</u>	<u>6.52</u>	<u>-109.9</u>	<u>11.410</u>	<u>8.04</u>	<u>0.05</u>	<u>200</u>
<u>0855</u>	<u>15.531</u>	<u>0.16</u>	<u>1305</u>	<u>6.52</u>	<u>-106.3</u>	<u>7.12</u>	<u>8.02</u>	<u>0.03</u>	<u>200</u>
<u>0900</u>	<u>15.314</u>	<u>0.12</u>	<u>1305</u>	<u>6.55</u>	<u>-107.6</u>	<u>9.52</u>	<u>8.01</u>	<u>0.02</u>	<u>200</u>
<u>0905</u>	<u>15.306</u>	<u>0.11</u>	<u>1305</u>	<u>6.55</u>	<u>-107.1</u>	<u>7.36</u>	<u>8.03</u>	<u>0.04</u>	<u>200</u>
<u>0910</u>	<u>15.424</u>	<u>0.12</u>	<u>1294</u>	<u>6.56</u>	<u>-108.2</u>	<u>8.39</u>	<u>8.01</u>	<u>0.02</u>	<u>200</u>

Final:
 Time 0915 Temp 15.556 DO 0.12 SC 1296 pH 6.56 ORP -108.7 Turb. 9.83 DTW 8.01 Drawdown 0.02 Flow Rate 150

Comments: GROUNDWATER DESCRIPTION: NO COLOR, SOME SMALL PARTICULATES ~ 1mm IN SIZE, SLIGHT ODOR. PUMP SET @ 20 PSI, 3 CPM, REFILL = 5.0, DISCHARGE = 15.0. WATER IS EFFERVESCENT

Sample Name ATR-MW25(45.2) - G072418 Time 0915 Bottle Type:

Analyses (check)	Bottle #/Type	Preservative	Bottle #/Type	Preservative
VOCs <input checked="" type="checkbox"/>	<u>3/G</u>	<u>1</u>	Dissolved Gasses <input checked="" type="checkbox"/>	<u>3/G</u> <u>6</u>
TOC <input checked="" type="checkbox"/>	<u>1/P</u>	<u>3</u>	VFA <input type="checkbox"/>	
Fe/Mn <input type="checkbox"/>			DHC <input type="checkbox"/>	
Other: <input type="checkbox"/>			Alkalinity + Anions (Cl-, SO4) <input type="checkbox"/>	
MS/MSD <input type="checkbox"/>	Blind Dup <input type="checkbox"/>	Blind Dup Name <input type="checkbox"/>	Other: <input type="checkbox"/>	

Bottle Type:
 G = Glass
 P = Poly
 Preservative Codes:
 1 = HCL 4 = NaOH
 2 = HNO3 5 = BAC
 3 = H2SO4 6 = Na3PO4

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location TFS Rochester Surface Water Groundwater Sample ID ATR-~~1040~~ ^{OW} 4(35)
 Project Number 3359-15-1040 (Use: Well name)
 Sampling Personnel Gert Date 7/23/18 Start Time 1500 Weather Duizzle 70°F

MEASUREMENT SUMMARY:

Measuring Point TOC Depth to Water 18.41 Depth to Product _____ Product Thickness _____
 Total Casing Depth 34.26 Borehole Diameter _____ Approx. Pump Depth 33 Feet
 Screen Interval _____ top _____ bottom _____ Feet

SAMPLING SUMMARY:

Sampling Method: Grab Composite Grundfos Bladder Pump Peristaltic Pump Bailor

Pump Started 1505 Pump Stopped 1550 Total 8 gal / liter

Time (24-hr)	Temp (°C) ±3%	DO (mg/L) ±10%	SC (uS/cm) ±3%	pH (S.U.) ±0.1	ORP (mV) ±10	Turb. (NTU) ±10	DTW (ft) ±3%	Drawdown (ft)	Flow Rate (ml/min) <250
1510	15.38	0.08	1896	6.55	137.9	9.05	17.44	1.03	200
1515	15.55	0.08	1870	6.54	137.2	8.17	17.46	1.05	
1520	15.41	0.09	1860	6.54	136.3	9.17	17.46	1.05	
1525	15.51	0.09	1838	6.53	134.3	9.31	17.45	1.04	
1530	15.52	0.10	1829	6.52	132.7	9.77	17.45	1.04	
1535	15.53	0.09	1822	6.52	131.3	10.52	17.45	1.04	
1540	15.40	0.09	1817	6.52	130.0	9.54	17.44	1.03	
1545	15.59	0.10	1817	6.52	129.6	9.67	17.44	1.03	

Final:
 Time 1545 Temp 15.59 DO 0.10 SC 1817 pH 6.52 ORP 129.6 Turb. 9.67 DTW 17.44 Drawdown 1.03 Flow Rate 200

Comments: _____

Sample Name ATR-~~1040~~ ^{OW} 4(35)-G072318 Time 1545

Analyses (check) Bottle #/Type Preservative Bottle #/Type Preservative

VOCs 3/G 1 Dissolved Gasses 3/G CO

TOC + NO₃ 1/P 3 VFA _____

Fe/Mn _____ DHC _____

Alkalinity + Anions (Cl-, SO₄) _____

Other: _____ Other: _____

MS/MSD _____ Blind Dup _____ Blind Dup Name _____ TB _____

Bottle Type:
 G = Glass
 P = Poly

Preservative Codes:
 1 = HCL 4 = NaOH
 2 = HNO₃ 5 = BAC
 3 = H₂SO₄ 6 = Na₃PO₄



GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location TFS Rochester Surface Water Groundwater Sample ID ATR-~~OW4~~ (54)
 Project Number 3359-15-1040 (Use: Well name)
 Sampling Personnel CENT Date 7/24/18 Start Time 0820 Weather Cloudy 60°F

MEASUREMENT SUMMARY:
 Measuring Point 70C Depth to Water 17.02 Depth to Product _____ Product Thickness _____
 Total Casing Depth 53.79 Borehole Diameter _____ Approx. Pump Depth 52.5 Feet
 Screen Interval top _____ bottom _____ Feet

SAMPLING SUMMARY:

Sampling Method: Grab Composite Grundfos Bladder Pump Peristaltic Pump Bailer
 Pump Started 0830 Pump Stopped 0913 Total 8 gal/Liter

Time (24-hr)	Temp (°C) ±3%	DO (mg/L) ±10%	SC (uS/cm) ±3%	pH (S.U.) ±0.1	ORP (mV) ±10	Turb. (NTU) ±10	DTW (ft) ±3%	Drawdown (ft)	Flow Rate (ml/min) <250
<u>0835</u>	<u>14.93</u>	<u>0.31</u>	<u>1121</u>	<u>6.72</u>	<u>-93.4</u>	<u>3.34</u>	<u>17.12</u>	<u>0.10</u>	<u>200</u>
<u>0840</u>	<u>14.71</u>	<u>0.12</u>	<u>1124</u>	<u>6.75</u>	<u>-104.0</u>	<u>5.11</u>	<u>17.19</u>	<u>0.17</u>	<u>11</u>
<u>0845</u>	<u>14.61</u>	<u>0.05</u>	<u>1144</u>	<u>6.80</u>	<u>-116.1</u>	<u>1.99</u>	<u>17.17</u>	<u>0.15</u>	<u>11</u>
<u>0850</u>	<u>14.65</u>	<u>0.03</u>	<u>1143</u>	<u>6.82</u>	<u>-119.7</u>	<u>2.40</u>	<u>17.19</u>	<u>0.17</u>	<u>11</u>
<u>0855</u>	<u>14.59</u>	<u>0.02</u>	<u>1189</u>	<u>6.83</u>	<u>-123.1</u>	<u>2.64</u>	<u>17.17</u>	<u>0.15</u>	<u>11</u>
<u>0900</u>	<u>14.64</u>	<u>0.01</u>	<u>1219</u>	<u>6.84</u>	<u>-126.7</u>	<u>2.86</u>	<u>17.19</u>	<u>0.17</u>	<u>11</u>
<u>0905</u>	<u>14.59</u>	<u>0.01</u>	<u>1250</u>	<u>6.84</u>	<u>-128.7</u>	<u>2.98</u>	<u>17.20</u>	<u>0.18</u>	<u>11</u>
<u>0910</u>	<u>14.52</u>	<u>0.01</u>	<u>1278</u>	<u>6.84</u>	<u>-130.2</u>	<u>2.91</u>	<u>17.19</u>	<u>0.17</u>	<u>11</u>

Final:

Time	Temp	DO	SC	pH	ORP	Turb.	DTW	Drawdown	Flow Rate
<u>0910</u>	<u>14.52</u>	<u>0.01</u>	<u>1278</u>	<u>6.84</u>	<u>-130.2</u>	<u>2.91</u>	<u>17.19</u>	<u>0.17</u>	<u>200</u>

Comments: _____

Sample Name ATR-~~OW4~~ (54)-C072418 Time 0910

Analyses (check) Bottle #/Type Preservative VOCs <input checked="" type="checkbox"/> <u>3/6</u> <u>1</u> TOC + NO ₃ <input checked="" type="checkbox"/> <u>1/1P</u> <u>3</u> Fe/Mn <input type="checkbox"/> _____ Alkalinity + Anions (Cl-, SO ₄) <input type="checkbox"/> _____ Other: <input type="checkbox"/> _____	Bottle #/Type Preservative Dissolved Gasses <input checked="" type="checkbox"/> <u>3/6</u> <u>6</u> VFA <input type="checkbox"/> _____ DHC <input type="checkbox"/> _____ Other: <input type="checkbox"/> _____	Bottle Type: G = Glass P = Poly Preservative Codes: 1 = HCL 4 = NaOH 2 = HNO ₃ 5 = BAC 3 = H ₂ SO ₄ 6 = Na ₃ PO ₄
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MS/MSD _____ Blind Dup _____ Blind Dup Name _____ TB _____

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location TFS Rochester Surface Water Groundwater Sample ID ATR-MW/6-
 Project Number 3359-15-1040 (Use: Well name)
 Sampling Personnel Am Date 7-19-18 Start Time 1410 Weather Clear, 82°F

MEASUREMENT SUMMARY:

Measuring Point TOC Depth to Water 9.02 Depth to Product N/A Product Thickness N/A
 Total Casing Depth 34.68 Borehole Diameter _____ Approx. Pump Depth 32 Feet
 Screen Interval top _____ bottom _____ Feet

SAMPLING SUMMARY:

Sampling Method: Grab Composite Grundfos Bladder Pump Peristaltic Pump Bailor

Pump Started 1414 Pump Stopped 1447 Total 1.5 gal / Liter

Time (24-hr)	Temp (°C) ±3%	DO (mg/L) ±10%	SC (uS/cm) ±3%	pH (S.U.) ±0.1	ORP (mV) ±10	Turb. (NTU) ±10	DTW (ft) ±3%	Drawdown (ft)	Flow Rate (ml/min) <250
<u>1420</u>	<u>15.389</u>	<u>0.64</u>	<u>1637.</u>	<u>7.01</u>	<u>-129.8</u>	<u>4.24</u>	<u>9.02</u>	<u>0.00</u>	<u>200</u>
<u>1425</u>	<u>14.190</u>	<u>0.10</u>	<u>1633.</u>	<u>7.00</u>	<u>-126.2</u>	<u>4.36</u>	<u>9.02</u>	<u>0.00</u>	<u>200</u>
<u>1430</u>	<u>15.130</u>	<u>0.03</u>	<u>1625.</u>	<u>7.00</u>	<u>-127.1</u>	<u>3.79</u>	<u>9.02</u>	<u>0.00</u>	<u>200</u>
<u>1435</u>	<u>14.964</u>	<u>0.00</u>	<u>1617.</u>	<u>7.01</u>	<u>-127.2</u>	<u>3.86</u>	<u>9.02</u>	<u>0.00</u>	<u>200</u>
<u>1440</u>	<u>14.826</u>	<u>0.00</u>	<u>1649.</u>	<u>7.00</u>	<u>-125.6</u>	<u>4.17</u>	<u>9.02</u>	<u>0.00</u>	<u>200</u>

Final:

Time	Temp	DO	SC	pH	ORP	Turb.	DTW	Drawdown	Flow Rate
<u>1440</u>	<u>14.826</u>	<u>0.00</u>	<u>1649</u>	<u>7.00</u>	<u>-125.6</u>	<u>4.17</u>	<u>9.02</u>	<u>0.00</u>	<u>200</u>

Comments: _____

Sample Name ATR-MW/6-6071918-1445 Time 1445

Analyses (check) Bottle #/Type Preservative

VOCs 3/G 1 Dissolved Gasses 3/G 6

TOC + NO₃ 1/P 3 VFA _____

Fe/Mn _____ DHC _____

Alkalinity + Anions (Cl-, SO₄) _____

Other: _____ Other: _____

MS/MSD _____ Blind Dup _____ Blind Dup Name _____ TB _____

Bottle Type:
 G = Glass
 P = Poly

Preservative Codes:
 1 = HCL 4 = NaOH
 2 = HNO₃ 5 = BAC
 3 = H₂SO₄ 6 = Na₃PO₄



GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location TFS Rochester Surface Water Groundwater Sample ID ATR-MW 17
 Project Number 3359-15-1040 (Use: Well name)
 Sampling Personnel GW Date 7/17/18 Start Time 1430 Weather Sunny 86°F

MEASUREMENT SUMMARY:
 Measuring Point TOP Depth to Water 2.87 Depth to Product _____ Product Thickness _____
 Total Casing Depth 42.48 Borehole Diameter _____ Approx. Pump Depth 40 Feet
 Screen Interval top bottom Feet

SAMPLING SUMMARY:
 Sampling Method: Grab Composite Grundfos Bladder Pump Peristaltic Pump Bailer
 Pump Started 1440 Pump Stopped 1540 Total 10 gal / Liter

Time (24-hr)	Temp (°C) ±3%	DO (mg/L) ±10%	SC (uS/cm) ±3%	pH (S.U.) ±0.1	ORP (mV) ±10	Turb. (NTU) ±10	DTW (ft) ±3%	Drawdown (ft)	Flow Rate (ml/min) <250
1445	21.31	2.69	1000	7.04	-29.4	2.84	2.88	0.01	200
1450	19.14	0.39	1016	6.88	-85.8	3.13	2.88	0.01	
1455	19.39	0.18	1007	6.88	-95.2	2.75	2.88	0.01	
1500	17.85	0.15	1017	6.88	-103.5	2.73	2.88	0.05	
1505	17.60	0.14	1015	6.88	-105.4	2.68	2.88	0.01	
1510	16.90	0.11	1012	6.89	-106.9	2.24	2.90	0.03	
1515	17.19	0.11	1017	6.89	-109.2	2.11	2.93	0.06	
1520	16.89	0.09	1013	6.89	-109.4	1.94	2.93	0.06	
1525	17.44	0.10	1018	6.89	-110.8	2.02	2.93	0.06	
1530	17.68	0.10	1022	6.89	-112.1	2.09	2.93	0.06	

Final:
 Time 1530 Temp 17.68 DO 0.10 SC 1022 pH 6.89 ORP -112.1 Turb. 2.09 DTW 2.93 Drawdown 0.06 Flow Rate 200

Comments: Replicate 20 ATR-MW17-G071918-R

Sample Name ATR-MW 17-G071918 Time 1530 Bottle Type: _____
 Analyses (check) Bottle #/Type Preservative
 VOCs 6/6 1 Dissolved Gasses 6/6 6
 TOC + NO₃ 2/P 3 VFA _____
 Fe/Mn _____ DHC _____
 Alkalinity + Anions (Cl-, SO₄) _____
 Other: _____ Other: _____
 MS/MSD _____ Blind Dup _____ Blind Dup Name _____ TB _____

Bottle Type:
 G = Glass
 P = Poly
 Preservative Codes:
 1 = HCL 4 = NaOH
 2 = HNO₃ 5 = BAC
 3 = H₂SO₄ 6 = Na₃PO₄



GROUNDWATER/SURFACE WATER SAMPLING FORM

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location TFS Rochester Surface Water Groundwater Sample ID ATR-MW26(17.5)
 Project Number 3359-15-1040 (Use: Well name)
 Sampling Personnel KA Date 7/20/19 Start Time 0806 Weather 73°F, THUNDERSTORMS TO LIGHT RAIN, WIND TO NORTHEAST @ 3 mph

MEASUREMENT SUMMARY:
 Measuring Point TOC Depth to Water 10.19' INITIAL Depth to Product N/A Product Thickness N/A
 Total Casing Depth 18.59 Borehole Diameter _____ Approx. Pump Depth 16.5 Feet
 Screen Interval top _____ bottom _____ Feet

SAMPLING SUMMARY:
 Sampling Method: Grab Composite Grundfos Bladder Pump Peristaltic Pump Bailor

Pump Started 0820 Pump Stopped 0915 Total 4 gal / Liter

Time (24-hr)	Temp (°C) ±3%	DO (mg/L) ±10%	SC (uS/cm) ±3%	pH (S.U.) ±0.1	ORP (mV) ±10	Turb. (NTU) ±10	DTW (ft) ±3%	Drawdown (ft)	Flow Rate (ml/min) <250
0825	14.63	0.44	940	6.67	-121.8	16.65	10.20	0.00	300
0830	15.17	0.36	1016	6.81	-129.2	11.35	10.21	0.01	200
0835	14.89	0.44	1012	6.81	-126.8	14.44	10.21	0.01	200
0840	14.96	0.60	1016	6.81	-123.1	7.22	10.20	0.00	200
0845	14.81	0.68	1017	6.82	-119.2	9.13	10.20	0.00	200
0850	14.83	0.76	1017	6.82	-115.8	9.93	10.20	0.00	200
0855	14.65	0.87	1021	6.81	-113.4	5.11	10.20	0.00	200
0900	14.75	0.89	1022	6.83	-111.8	6.49	10.20	0.00	200
0905	14.78	0.91	1025	6.83	-110.6	7.44	10.20	0.00	200
							10.20	0.00	20 (CA)

Final:
 Time 0910 Temp 14.79 DO 0.95 SC 1023 pH 6.83 ORP -108.6 Turb. 8.03 DTW 10.20 Drawdown 0.00 Flow Rate 150

Comments: PUMPSET @ 10PSI, 30PM. REFILL = 5.00 DISCHARGE = 15.00 (PURGE FLOW RATE).
GROUNDWATER DESCRIPTION: CLEAR, SOME SUSPENDED PARTICULATES; LIGHT GRAY/BROWN IN COLOR, MILD ORGANIC ODOR.

Sample Name ATR-MW26(17.5)-G 072018 Time 0910 Bottle Type: _____

Analyses (check) Bottle #/Type Preservative Bottle #/Type Preservative
 VOCs 3/G 1 Dissolved Gasses 3/G 6
 TOC 1/P 3 VFA _____
 Fe/Mn _____ DHC _____
 Alkalinity + Anions (Cl-, SO4) _____

Other: Other:

MS/MSD _____ Blind Dup _____ Blind Dup Name _____ TB _____

G = Glass
P = Poly
Preservative Codes:
1 = HCL 4 = NaOH
2 = HNO3 5 = BAC
3 = H2SO4 6 = Na3PO4



GROUNDWATER/SURFACE WATER SAMPLING FORM

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location TFS Rochester Surface Water Groundwater Sample ID ATR-MW26(28.8)
 Project Number 3359-15-1040 (Use: Well name)
 Sampling Personnel KA Date 7/20/2018 Start Time 0929 Weather 72°F, PARTLY CLOUDY,
WIND TO NORTH @ 2 mph

MEASUREMENT SUMMARY:
 Measuring Point TOC Depth to Water 10.06' INITIAL Depth to Product N/A Product Thickness N/A
 Total Casing Depth 28.97 Borehole Diameter _____ Approx. Pump Depth 26.5 Feet
 Screen Interval top _____ bottom _____ Feet

SAMPLING SUMMARY:
 Sampling Method: Grab Composite Grundfos Bladder Pump Peristaltic Pump Bailor

Pump Started 0930 Pump Stopped 1040 Total ~3 (gal) Liter

Time (24-hr)	Temp (°C) ±3%	DO (mg/L) ±10%	SC (uS/cm) ±3%	pH (S.U.) ±0.1	ORP (mV) ±10	Turb. (NTU) ±10	DTW (ft) ±3%	Drawdown (ft)	Flow Rate (ml/min)
0940	15.91	0.17	1540	6.76	-102.8	39.52	10.06	0.01	<250
0945	15.63	0.13	1533	6.76	-102.2	48.03	10.06	0.01	225
0950	15.61	0.17	1517	6.76	-103.6	42.52	10.06	0.01	225
0955	15.60	0.19	1527	6.75	-102.8	51.71	10.06	0.01	175
1000	15.90	0.19	1520	6.76	-102.6	21.75	10.06	0.01	175
1005	15.99	0.26	1514	6.76	-103.5	40.16	10.06	0.01	175
1010	15.84	0.21	1516	6.77	-102.8	40.99	10.06	0.01	175
1015	15.85	0.25	1513	6.76	-100.9	36.81	10.05	0.00	175
1020	15.69	0.35	1505	6.77	-101.2	69.35	10.06	0.00	175
1025	16.06	0.30	1509	6.77	-100.7	26.09	10.06	0.00	175
1030	16.15	0.32	1513	6.77	-100.1	11.98	10.06	0.01	175

Final:

Time	Temp	DO	SC	pH	ORP	Turb.	DTW	Drawdown	Flow Rate
1035	16.19	0.33	1514	6.78	-99.7	26.60	10.06	0.01	175

Comments: GROUNDWATER DESCRIPTION: CLEAR, SOME SUSPENDED PARTICULATES INITIALLY, THEN CLEARED UP, ODOR, SLIGHT EFFERVESCENCE. PUMP SET @ 15 PSI, REFILL @ 5.0, DISCHARGE @ 15.00, ACPM - BUBBLES INCREASED DURING PURGING, POSSIBLY AFFECTING TURBIDITY READINGS. TAPPED SIDE OF FLOWTHRU CELL THROUGHOUT PURGING TO REMOVE BUBBLES.

Sample Name ATR-MW26(28.8)-G072018 Time 1035

Analyses (check)	Bottle #/Type	Preservative	Bottle #/Type	Preservative
VOCs <input checked="" type="checkbox"/>	<u>3/G</u>	<u>1</u>	Dissolved Gasses <input checked="" type="checkbox"/>	<u>3/G</u> <u>6</u>
TOC <input checked="" type="checkbox"/>	<u>1/P</u>	<u>3</u>	VFA <input type="checkbox"/>	_____
Fe/Mn <input type="checkbox"/>	_____	_____	DHC <input type="checkbox"/>	_____
Other: <input type="checkbox"/>	_____	_____	Alkalinity + Anions (Cl-, SO4) <input type="checkbox"/>	_____
MS/MSD _____	Blind Dup _____	Blind Dup Name _____	TB _____	

Bottle Type:
 G = Glass
 P = Poly

Preservative Codes:
 1 = HCL 4 = NaOH
 2 = HNO₃ 5 = BAC
 3 = H₂SO₄ 6 = Na₃PO₄



GROUNDWATER/SURFACE WATER SAMPLING FORM

*COLLECTED FOR VOCs, TOC, DISSOLVED GASES

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location TFS Rochester Surface Water Groundwater Sample ID ATR-MW26(58.2)
 Project Number 3359-15-1040 (Use: Well name)
 Sampling Personnel KA Date 7/20/18 Start Time 1050 Weather 79°F, PARTLY CLOUDY,
WIND TO NORTH @ 3 mph

MEASUREMENT SUMMARY:
 Measuring Point TOC Depth to Water 9.50' INITIAL Depth to Product N/A Product Thickness N/A
 Total Casing Depth 59.09 Borehole Diameter _____ Approx. Pump Depth 56.5 Feet
 Screen Interval top _____ bottom _____ Feet

SAMPLING SUMMARY:
 Sampling Method: Grab Composite Grundfos Bladder Pump Peristaltic Pump Bailer
 Pump Started 1100 Pump Stopped 1140 Total 2.5 gal / Liter

Time (24-hr)	Temp (°C) ±3%	DO (mg/L) ±10%	SC (uS/cm) ±3%	pH (S.U.) ±0.1	ORP (mV) ±10	Turb. (NTU) ±10	DTW (ft) ±3%	Drawdown (ft)	Flow Rate (ml/min) <250
<u>1105</u>	<u>17.01</u>	<u>2.26</u>	<u>590</u>	<u>7.17</u>	<u>-131.7</u>	<u>1.44</u>	<u>9.53</u>	<u>0.03</u>	<u>250</u>
<u>1110</u>	<u>16.81</u>	<u>0.35</u>	<u>589</u>	<u>7.18</u>	<u>-142.0</u>	<u>5.09</u>	<u>9.51</u>	<u>0.01</u>	<u>175</u>
<u>1115</u>	<u>16.93</u>	<u>0.33</u>	<u>589</u>	<u>7.19</u>	<u>-144.7</u>	<u>6.11</u>	<u>9.51</u>	<u>0.01</u>	<u>175</u>
<u>1120</u>	<u>16.78</u>	<u>0.31</u>	<u>587</u>	<u>7.20</u>	<u>-145.8</u>	<u>10.99</u>	<u>9.53</u>	<u>0.03</u>	<u>175</u>
<u>1125</u>	<u>16.81</u>	<u>0.35</u>	<u>587</u>	<u>7.20</u>	<u>-145.3</u>	<u>2.21</u>	<u>9.52</u>	<u>0.02</u>	<u>176</u>
<u>1130</u>	<u>16.73</u>	<u>0.36</u>	<u>587</u>	<u>7.20</u>	<u>-144.6</u>	<u>4.86</u>	<u>9.51</u>	<u>0.01</u>	<u>175</u>

Final:
 Time 1135 Temp 16.62 DO 0.37 SC 587 pH 7.20 ORP -143.5 Turb. 9.79 DTW 9.51 Drawdown 0.01 Flow Rate 175

Comments: PUMP SET AT 25 PSI, 3 CPM, REFILL=5.0, DISCHARGE = 15.00. GROUNDWATER DESCRIPTION: CLEAR, SOME VISIBLE PARTICULATES (ORANGE IN COLOR)

Sample Name ATR-MW26(58.2)-G072018 Time 1135

Analyses (check)	Bottle #/Type	Preservative	Bottle #/Type	Preservative
VOCs <input checked="" type="checkbox"/>	<u>3/G</u>	_____	Dissolved Gasses <input checked="" type="checkbox"/>	<u>3/G</u>
TOC + NO₃ <input checked="" type="checkbox"/>	<u>1/P</u>	_____	VFA <input type="checkbox"/>	_____
Fe/Mn <input type="checkbox"/>	_____	_____	DHC <input type="checkbox"/>	_____
Other: <input type="checkbox"/>	_____	Alkalinity + Anions (Cl-, SO4) <input type="checkbox"/>	Other: <input type="checkbox"/>	_____

MS/MSD _____ Blind Dup _____ Blind Dup Name _____ TB _____

Bottle Type:
 G = Glass
 P = Poly
 Preservative Codes:
 1 = HCL 4 = NaOH
 2 = HNO₃ 5 = BAC
 3 = H₂SO₄ 6 = Na₃PO₄

1750

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location TFS Rochester Surface Water Groundwater Sample ID ATR-~~1750~~ ZVI-2 (17.5)
 Project Number 3359-15-1040 (Use: Well name)
 Sampling Personnel GLD Date 7/19/18 Start Time 1650 Weather Sunny 86°F

MEASUREMENT SUMMARY:

Measuring Point TDC Depth to Water 9.19 Depth to Product _____ Product Thickness _____
 Total Casing Depth 17.25 Borehole Diameter _____ Approx. Pump Depth 10 Feet
 Screen Interval top _____ bottom _____ Feet

SAMPLING SUMMARY:

Sampling Method: Grab Composite Grundfos Bladder Pump Peristaltic Pump Bailer

Pump Started 1700 Pump Stopped _____ Total 10 gal/Liter

Time (24-hr)	Temp (°C) ±3%	DO (mg/L) ±10%	SC (uS/cm) ±3%	pH (S.U.) ±0.1	ORP (mV) ±10	Turb. (NTU) ±10	DTW (ft) ±3%	Drawdown (ft)	Flow Rate (ml/min) <250
1705	15.33	0.24	1247	6.84	-144.3	39.45	9.19	0	200
1710	16.24	0.40	1261	6.80	-132.5	34.05	9.19	0	
1715	16.37	0.30	1261	6.83	-141.2	27.11	9.19	0	
1720	16.34	0.35	1260	6.83	-141.0	27.76	9.19	0	
1725	16.50	0.30	1261	6.83	-140.3	39.16	9.20	0.01	
1730	16.41	0.37	1258	6.83	-139.5	35.19	9.20	0.01	
1735	16.34	0.37	1258	6.83	-138.2	49.42	9.20	0.01	
1740	16.35	0.37	1258	6.83	-138.0	43.04	9.20	0.01	
1745	16.30	0.37	1259	6.83	-137.7	40.44	9.20	0.01	
1750	16.15	0.37	1258	6.83	-137.4	39.59	9.20	0.01	

Final:

Time 1750 Temp 16.15 DO 0.37 SC 1258 pH 6.83 ORP -137.4 Turb. 39.59 DTW 9.20 Drawdown 0.01 Flow Rate 200

Comments: _____

Sample Name ATR-~~1750~~ ZVI-2 (17.5) - 6071918 Time 1750

Analyses (check) Bottle #/Type Preservative Bottle #/Type Preservative
 VOCs 316 1 Dissolved Gasses 316 6
 TOC + NO₃ 11P 3 VFA _____
 Fe/Mn _____ DHC _____
 Alkalinity + Anions (Cl-, SO₄) _____
 Other: _____ Other: _____

Bottle Type:
 G = Glass
 P = Poly
 Preservative Codes:
 1 = HCL 4 = NaOH
 2 = HNO₃ 5 = BAC
 3 = H₂SO₄ 6 = Na₃PO₄

MS/MSD _____ Blind Dup _____ Blind Dup Name _____ TB _____

GROUNDWATER/SURFACE WATER SAMPLING FORM



Wood Environment & Infrastructure Solutions, Inc.

VTD

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location TFS Rochester Surface Water Groundwater Sample ID ATR-~~100~~ ZVI-2(32.5)
 Project Number 3359-15-1040 (Use: Well name)
 Sampling Personnel CCW Date 7/19/18 Start Time 1555 Weather Sunny 80°F

MEASUREMENT SUMMARY:
 Measuring Point TOC Depth to Water 9.07 Depth to Product _____ Product Thickness _____
 Total Casing Depth 32.2 Borehole Diameter _____ Approx. Pump Depth 30 Feet
 Screen Interval top bottom Feet

SAMPLING SUMMARY:
 Sampling Method: Grab Composite Grundfos Bladder Pump Peristaltic Pump Baller

Pump Started 1600 Pump Stopped 1643 Total 8 gal / Liter

Time (24-hr)	Temp (°C) ±3%	DO (mg/L) ±10%	SC (uS/cm) ±3%	pH (S.U.) ±0.1	ORP (mV) ±10	Turb. (NTU) ±10	DTW (ft) ±3%	Drawdown (ft)	Flow Rate (ml/min) <250
1600	16.00	0.68	1368	6.16	-104.4	4.59	9.07	0.0	200
1610	15.82	0.69	1359	6.16	-104.3	4.63	9.07	0.0	
1615	15.75	0.71	1347	6.16	-103.9	4.77	9.07	0.0	
1620	15.86	0.81	1342	6.16	-102.4	4.79	9.07	0.0	
1625	15.72	0.89	1329	6.16	-101.7	5.08	9.07	0.0	
1630	15.43	0.99	1322	6.16	-99.7	5.24	9.07	0.0	
1635	15.44	1.01	1317	6.16	-98.8	5.30	9.07	0.0	
1640	15.36	1.05	1322	6.16	-97.9	5.68	9.07	0.0	

Final:
 Time 1640 Temp 15.36 DO 1.09 SC 1322 pH 6.16 ORP -97.9 Turb. 5.68 DTW 9.07 Drawdown 0.0 Flow Rate 200

Comments: _____

Sample Name ATR-~~100~~ ZVI-2(32.5)-61071918 Time 1640

Analyses (check) Bottle #/Type Preservative

VOCs <input checked="" type="checkbox"/> <u>3/G</u>	1	Dissolved Gasses <input checked="" type="checkbox"/> <u>3/G</u>	6
TOC + NO ₃ <input checked="" type="checkbox"/> <u>P/1</u>	3	VFA <input type="checkbox"/>	
Fe/Mn <input type="checkbox"/>		DHC <input type="checkbox"/>	
		Alkalinity + Anions (Cl-, SO ₄) <input type="checkbox"/>	

Other: Other:

MS/MSD _____ Blind Dup _____ Blind Dup Name _____ TB _____

Bottle Type:
 G = Glass
 P = Poly

Preservative Codes:
 1 = HCL 4 = NaOH
 2 = HNO₃ 5 = BAC
 3 = H₂SO₄ 6 = Na₃PO₄

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location TFS Rochester Surface Water Groundwater Sample ID ATR-~~1145~~ 0205(16)
 Project Number 3359-15-1040 (Use: Well name)
 Sampling Personnel CLC Date 7/23/18 Start Time 1100 Weather Partly Cloudy 71°F

MEASUREMENT SUMMARY:

Measuring Point TOC Depth to Water 8.31 Depth to Product _____ Product Thickness _____
 Total Casing Depth 16.25 Borehole Diameter _____ Approx. Pump Depth 14 Feet
 Screen Interval top _____ bottom _____ Feet

SAMPLING SUMMARY:

Sampling Method: Grab Composite Grundfos Bladder Pump Peristaltic Pump Baller

Pump Started 1105 Pump Stopped 1148 Total 8 gal / Liter

Time (24-hr)	Temp (°C) ±3%	DO (mg/L) ±10%	SC (uS/cm) ±3%	pH (S.U.) ±0.1	ORP (mV) ±10	Turb. (NTU) ±10	DTW (ft) ±3%	Drawdown (ft)	Flow Rate (ml/min) <250
1110	16.73	0.116	736	6.94	-150.6	15.04	8.35	1.04	200
1115	17.21	0.11	742	6.95	-153.5	15.77	8.33	1.02	200
1120	17.13	0.106	741	6.96	-156.2	13.45	8.33	1.02	200
1125	17.37	0.104	743	6.97	-157.7	13.54	8.31	0.0	200
1130	17.28	0.101	742	6.97	-158.4	10.12	8.32	0.01	200
1135	16.52	0.10	739	6.97	-158.3	10.25	8.33	0.02	200
1140	17.23	0.10	738	6.97	-158.5	9.33	8.33	0.02	200
1145	17.14	0.10	739	6.97	-158.5	7.44	8.33	0.02	200

Final:
 Time 1145 Temp 17.14 DO 0.100 SC 739 pH 6.97 ORP -158.5 Turb. 9.44 DTW 8.33 Drawdown 0.02 Flow Rate 200

Comments: _____

Sample Name ATR-~~1145~~ 0205(16)-G072318 Time 1145

Analyses (check) Bottle #/Type Preservative Bottle #/Type Preservative

VOCs 3/G 1 Dissolved Gasses 3/G 6

TOC + NO₃ 1/P 3 VFA _____

Fe/Mn _____ DHC _____

Alkalinity + Anions (Cl-, SO₄) _____

Other: _____ Other: _____

MS/MSD _____ Blind Dup _____ Blind Dup Name _____ TB _____

Bottle Type:
 G = Glass
 P = Poly

Preservative Codes:
 1 = HCL 4 = NaOH
 2 = HNO₃ 5 = BAC
 3 = H₂SO₄ 6 = Na₃PO₄

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location TFS Rochester Surface Water Groundwater Sample ID ATR-~~111~~ 5(35)
 Project Number 3359-15-1040 (Use: Well name)
 Sampling Personnel Cal Date 7/23/18 Start Time 1155 Weather Cloudy 75°F

MEASUREMENT SUMMARY:
 Measuring Point TOC Depth to Water 7.44 Depth to Product _____ Product Thickness _____
 Total Casing Depth 35.46 Borehole Diameter _____ Approx. Pump Depth 33.5 Feet
 Screen Interval top bottom _____ Feet

SAMPLING SUMMARY:
 Sampling Method: Grab Composite Grundfos Bladder Pump Peristaltic Pump Bailor

Pump Started 1200 Pump Stopped _____ Total 14 gal Liter

Time (24-hr)	Temp (°C) ±3%	DO (mg/L) ±10%	SC (uS/cm) ±3%	pH (S.U.) ±0.1	ORP (mV) ±10	Turb. (NTU) ±10	DTW (ft) ±3%	Drawdown (ft)	Flow Rate (ml/min) <250
1205	17.06	0.52	923	6.65	-118.1	2.45	7.44	0.0	200
1210	15.58	0.36	918	6.63	-114.6	2.37	7.43	1.01	
1215	15.58	0.23	920	6.64	-118.3	2.92	7.43	1.01	
1220	16.05	0.34	921	6.65	-117.4	2.58	7.43	1.01	
1225	16.16	0.46	918	6.65	-115.9	2.76	7.43	1.01	
1230	16.19	0.58	915	6.65	-113.2	2.95	7.43	1.01	
1235	16.35	0.68	914	6.65	-111.2	2.85	7.43	1.01	
1240	16.37	0.73	915	6.65	-106.9	3.25	7.43	1.01	
1245	16.47	0.97	914	6.65	-106.2	3.45	7.43	1.01	
1250	16.39	1.11	908	6.65	-104.0	3.49	7.43	1.01	
1255	16.61	1.20	915	6.65	-103.4	3.55	7.43	1.01	
1300	16.50	1.34	926	6.65	-100.5	4.07	7.43	1.01	
1305	16.60	1.35	910	6.65	-100.4	4.22	7.43	1.01	
1310	16.66	1.43	909	6.65	-99.5	4.18	7.43	1.01	

Final:
 Time 1310 Temp 16.66 DO 1.43 SC 909 pH 6.65 ORP -99.5 Turb. 4.18 DTW 7.43 Drawdown 1.01 Flow Rate 200

Comments: _____

Sample Name ATR-~~111~~ 5(35)-G011318 Time 1310

Analyses (check) Bottle #/Type Preservative Bottle #/Type Preservative

VOCs 3/G 1 Dissolved Gasses 3/G Le

TOC + NO₃ 1/P 3 VFA _____

Fe/Mn _____ DHC _____

Alkalinity + Anions (Cl-, SO₄) _____

Other: _____ Other: _____

MS/MSD _____ Blind Dup _____ Blind Dup Name _____ TB _____

Bottle Type:
 G = Glass
 P = Poly

Preservative Codes:
 1 = HCL 4 = NaOH
 2 = HNO₃ 5 = BAC
 3 = H₂SO₄ 6 = Na₃PO₄



GROUNDWATER/SURFACE WATER SAMPLING FORM

GROUND-WATER/SURFACE WATER SAMPLING FORM

Project Location TFS Rochester Surface Water Groundwater Sample ID ATR-~~100~~ 5(44)
 Project Number 3359-15-1040 (Use: Well name)
 Sampling Personnel GLD Date 7/23/18 Start Time 1320 Weather Cloudy 75°F

MEASUREMENT SUMMARY:

Measuring Point 10C Depth to Water 7.41 Depth to Product _____ Product Thickness _____
 Total Casing Depth 43.95 Borehole Diameter _____ Approx. Pump Depth 41.5 Feet
 Screen Interval top _____ bottom _____ Feet

SAMPLING SUMMARY:

Sampling Method: Grab Composite Grundfos Bladder Pump Peristaltic Pump Baller

Pump Started 1325 Pump Stopped 1435 Total 16 gal Liter

Time (24-hr)	Temp (°C) ±3%	DO (mg/L) ±10%	SC (uS/cm) ±3%	pH (S.U.) ±0.1	ORP (mV) ±10	Turb. (NTU) ±10	DTW (ft) ±3%	Drawdown (ft)	Flow Rate (ml/min) <250
1330	17.21	0.90	1265	6.53	-95.3	8.45	7.41	0.0	250
1335	15.10	0.38	1290	6.48	-89.5	5.00	7.41	0.0	
1340	14.89	0.37	1297	6.47	-89.1	5.16	7.48	0.07	
1345	15.06	0.47	1360	6.45	-89.4	7.79	7.52	0.15	
1350	15.94	0.28	1361	6.45	-90.7	15.87	7.55	0.14	
1355	15.34	0.56	1391	6.45	-88.0	7.14	7.55	0.04	
1400	15.15	0.70	1421	6.44	-86.5	9.08	7.49	0.08	
1405	17.03	1.35	1421	6.44	-84.6	9.20	7.41	0.00	
1410	17.10	1.04	1438	6.44	-85.1	9.95	7.41	0.00	
1415	18.60	0.88	1477	6.44	-84.6	9.75	7.43	0.02	
1420	15.77	1.09	1461	6.44	-82.2	9.57	7.49	0.08	
1425	15.45	1.00	1461	6.44	-82.0	9.33	7.45	0.04	
1430	15.22	0.94	1472	6.43	-81.3	9.12	7.48	0.07	

Final:

Time 1430 Temp 15.22 DO 0.94 SC 1472 pH 6.43 ORP -81.3 Turb. 9.12 DTW 7.48 Drawdown 0.07 Flow Rate 250

Comments: _____

Sample Name ATR-~~100~~ 5(44)-G072318 Time 1430

Analyses (check) Bottle #/Type Preservative Bottle #/Type Preservative
 VOCs 3/6 1 Dissolved Gasses 3/6 6
 TOC + NO₃ 1/8 3 VFA _____
 Fe/Mn _____ DHC _____
 Alkalinity + Anions (Cl⁻, SO₄) _____

Other: _____ Other: _____
 MS/MSD _____ Blind Dup _____ Blind Dup Name _____ TB _____

Bottle Type:

G = Glass

P = Poly

Preservative Codes:

1 = HCL 4 = NaOH

2 = HNO₃ 5 = BAC

3 = H₂SO₄ 6 = Na₃PO₄





Textron, Inc.
TORX Facility Remediation
Report of Performance Monitoring

APPENDIX B

LABORATORY REPORTS AND DATA VALIDATION REPORT



30-Jul-2018

Paul Stork
Wood Environment & Infrastructure Solutions, Inc.
521 Byers Road, Suite 204
Miamisburg, OH 45342

Re: **TFS Rochester (3359-15-1040)**

Work Order: **18071390**

Dear Paul,

ALS Environmental received 10 samples on 21-Jul-2018 for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 36.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

A handwritten signature in black ink, appearing to read "Tom Beamish".

Electronically approved by: Tom Beamish

Tom Beamish
Senior Project Manager

Report of Laboratory Analysis

Certificate No: IN: C-MI-08

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental ALS Environmental

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RIGHT SOLUTIONS RIGHT PARTNER

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040)
Work Order: 18071390

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
18071390-01	ATR-MW16-G071918-1445	Water		07/19/18 14:45	07/21/18 10:00	<input type="checkbox"/>
18071390-02	ATR-MW17-G071918-R	Water		07/19/18 15:30	07/21/18 10:00	<input type="checkbox"/>
18071390-03	ATR-MW17-G071918	Water		07/19/18 15:30	07/21/18 10:00	<input type="checkbox"/>
18071390-04	ATR-ZVI-2(32.5)-G071918	Water		07/19/18 16:40	07/21/18 10:00	<input type="checkbox"/>
18071390-05	ATR-ZVI-2(17.5)-G071918	Water		07/19/18 17:50	07/21/18 10:00	<input type="checkbox"/>
18071390-06	ATR-MW26(17.5)-G072018	Water		07/20/18 09:10	07/21/18 10:00	<input type="checkbox"/>
18071390-07	ATR-MW26(28.8)-G072018	Water		07/20/18 10:35	07/21/18 10:00	<input type="checkbox"/>
18071390-08	ATR-MW26(58.2)-G072018	Water		07/20/18 11:35	07/21/18 10:00	<input type="checkbox"/>
18071390-09	ATR-G072018-TB-03	Water		07/20/18 13:40	07/21/18 10:00	<input type="checkbox"/>
18071390-10	Field Blank	Water		07/19/18 14:10	07/21/18 10:00	<input type="checkbox"/>

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040)
WorkOrder: 18071390

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCS D	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
µg/L	Micrograms per Liter
mg/L	Milligrams per Liter

Client: Wood Environment & Infrastructure Solutions, Inc
Project: TFS Rochester (3359-15-1040)
Work Order: 18071390

Case Narrative

Samples for the above noted Work Order were received on 07/21/18. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting. A copy of the laboratory's scope of accreditation is available upon request.

With the following exceptions, all sample analyses achieved analytical criteria.

Volatile Organics:

No deviations or anomalies were noted.

Wet Chemistry:

No deviations or anomalies were noted.

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040)

Work Order: 18071390

Sample ID: ATR-MW16-G071918-1445

Lab ID: 18071390-01

Collection Date: 07/19/18 02:45 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260C		Analyst: BG	
1,1,1-Trichloroethane	ND		1.0	µg/L	1	07/26/18 03:30 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	07/26/18 03:30 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	07/26/18 03:30 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	07/26/18 03:30 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	07/26/18 03:30 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	07/26/18 03:30 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	07/26/18 03:30 PM
2-Butanone	5.6		5.0	µg/L	1	07/26/18 03:30 PM
2-Hexanone	ND		5.0	µg/L	1	07/26/18 03:30 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	07/26/18 03:30 PM
Acetone	ND		10	µg/L	1	07/26/18 03:30 PM
Benzene	ND		1.0	µg/L	1	07/26/18 03:30 PM
Bromodichloromethane	ND		1.0	µg/L	1	07/26/18 03:30 PM
Bromoform	ND		1.0	µg/L	1	07/26/18 03:30 PM
Bromomethane	ND		1.0	µg/L	1	07/26/18 03:30 PM
Carbon disulfide	ND		1.0	µg/L	1	07/26/18 03:30 PM
Carbon tetrachloride	ND		1.0	µg/L	1	07/26/18 03:30 PM
Chlorobenzene	ND		1.0	µg/L	1	07/26/18 03:30 PM
Chloroethane	ND		1.0	µg/L	1	07/26/18 03:30 PM
Chloroform	ND		1.0	µg/L	1	07/26/18 03:30 PM
Chloromethane	ND		1.0	µg/L	1	07/26/18 03:30 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	07/26/18 03:30 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	07/26/18 03:30 PM
Dibromochloromethane	ND		1.0	µg/L	1	07/26/18 03:30 PM
Ethylbenzene	ND		1.0	µg/L	1	07/26/18 03:30 PM
m,p-Xylene	ND		2.0	µg/L	1	07/26/18 03:30 PM
Methylene chloride	ND		5.0	µg/L	1	07/26/18 03:30 PM
o-Xylene	ND		1.0	µg/L	1	07/26/18 03:30 PM
Styrene	ND		1.0	µg/L	1	07/26/18 03:30 PM
Tetrachloroethene	ND		1.0	µg/L	1	07/26/18 03:30 PM
Toluene	ND		1.0	µg/L	1	07/26/18 03:30 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	07/26/18 03:30 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	07/26/18 03:30 PM
Trichloroethene	ND		1.0	µg/L	1	07/26/18 03:30 PM
Vinyl chloride	ND		1.0	µg/L	1	07/26/18 03:30 PM
Xylenes, Total	ND		3.0	µg/L	1	07/26/18 03:30 PM
Surr: 1,2-Dichloroethane-d4	93.7		75-120	%REC	1	07/26/18 03:30 PM
Surr: 4-Bromofluorobenzene	97.6		80-110	%REC	1	07/26/18 03:30 PM
Surr: Dibromofluoromethane	89.9		85-115	%REC	1	07/26/18 03:30 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 30-Jul-18

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040)

Work Order: 18071390

Sample ID: ATR-MW16-G071918-1445

Lab ID: 18071390-01

Collection Date: 07/19/18 02:45 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: Toluene-d8</i>	93.0		85-110	%REC	1	07/26/18 03:30 PM
ORGANIC CARBON, TOTAL			SW9060A			Analyst: JJG
Organic Carbon, Total	13		10	mg/L	20	07/24/18 03:28 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040)

Work Order: 18071390

Sample ID: ATR-MW17-G071918-R

Lab ID: 18071390-02

Collection Date: 07/19/18 03:30 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260C		Analyst: EMR	
1,1,1-Trichloroethane	ND		1.0	µg/L	1	07/26/18 01:32 AM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	07/26/18 01:32 AM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	07/26/18 01:32 AM
1,1-Dichloroethane	ND		1.0	µg/L	1	07/26/18 01:32 AM
1,1-Dichloroethene	ND		1.0	µg/L	1	07/26/18 01:32 AM
1,2-Dichloroethane	ND		1.0	µg/L	1	07/26/18 01:32 AM
1,2-Dichloropropane	ND		1.0	µg/L	1	07/26/18 01:32 AM
2-Butanone	ND		5.0	µg/L	1	07/26/18 01:32 AM
2-Hexanone	ND		5.0	µg/L	1	07/26/18 01:32 AM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	07/26/18 01:32 AM
Acetone	ND		10	µg/L	1	07/26/18 01:32 AM
Benzene	ND		1.0	µg/L	1	07/26/18 01:32 AM
Bromodichloromethane	ND		1.0	µg/L	1	07/26/18 01:32 AM
Bromoform	ND		1.0	µg/L	1	07/26/18 01:32 AM
Bromomethane	ND		1.0	µg/L	1	07/26/18 01:32 AM
Carbon disulfide	ND		1.0	µg/L	1	07/26/18 01:32 AM
Carbon tetrachloride	ND		1.0	µg/L	1	07/26/18 01:32 AM
Chlorobenzene	ND		1.0	µg/L	1	07/26/18 01:32 AM
Chloroethane	ND		1.0	µg/L	1	07/26/18 01:32 AM
Chloroform	ND		1.0	µg/L	1	07/26/18 01:32 AM
Chloromethane	ND		1.0	µg/L	1	07/26/18 01:32 AM
cis-1,2-Dichloroethene	31		1.0	µg/L	1	07/26/18 01:32 AM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	07/26/18 01:32 AM
Dibromochloromethane	ND		1.0	µg/L	1	07/26/18 01:32 AM
Ethylbenzene	ND		1.0	µg/L	1	07/26/18 01:32 AM
m,p-Xylene	ND		2.0	µg/L	1	07/26/18 01:32 AM
Methylene chloride	ND		5.0	µg/L	1	07/26/18 01:32 AM
o-Xylene	ND		1.0	µg/L	1	07/26/18 01:32 AM
Styrene	ND		1.0	µg/L	1	07/26/18 01:32 AM
Tetrachloroethene	ND		1.0	µg/L	1	07/26/18 01:32 AM
Toluene	ND		1.0	µg/L	1	07/26/18 01:32 AM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	07/26/18 01:32 AM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	07/26/18 01:32 AM
Trichloroethene	67		1.0	µg/L	1	07/26/18 01:32 AM
Vinyl chloride	ND		1.0	µg/L	1	07/26/18 01:32 AM
Xylenes, Total	ND		3.0	µg/L	1	07/26/18 01:32 AM
Surr: 1,2-Dichloroethane-d4	95.6		75-120	%REC	1	07/26/18 01:32 AM
Surr: 4-Bromofluorobenzene	98.5		80-110	%REC	1	07/26/18 01:32 AM
Surr: Dibromofluoromethane	92.8		85-115	%REC	1	07/26/18 01:32 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 30-Jul-18

Client: Wood Environment & Infrastructure Solutions, Inc.**Project:** TFS Rochester (3359-15-1040)**Work Order:** 18071390**Sample ID:** ATR-MW17-G071918-R**Lab ID:** 18071390-02**Collection Date:** 07/19/18 03:30 PM**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: Toluene-d8</i>	94.3		85-110	%REC	1	07/26/18 01:32 AM
ORGANIC CARBON, TOTAL			SW9060A			Analyst: JJG
Organic Carbon, Total	4.0		2.0	mg/L	4	07/24/18 03:28 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040)

Work Order: 18071390

Sample ID: ATR-MW17-G071918

Lab ID: 18071390-03

Collection Date: 07/19/18 03:30 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260C			Analyst: EMR
1,1,1-Trichloroethane	ND		1.0	µg/L	1	07/26/18 01:54 AM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	07/26/18 01:54 AM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	07/26/18 01:54 AM
1,1-Dichloroethane	ND		1.0	µg/L	1	07/26/18 01:54 AM
1,1-Dichloroethene	ND		1.0	µg/L	1	07/26/18 01:54 AM
1,2-Dichloroethane	ND		1.0	µg/L	1	07/26/18 01:54 AM
1,2-Dichloropropane	ND		1.0	µg/L	1	07/26/18 01:54 AM
2-Butanone	ND		5.0	µg/L	1	07/26/18 01:54 AM
2-Hexanone	ND		5.0	µg/L	1	07/26/18 01:54 AM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	07/26/18 01:54 AM
Acetone	ND		10	µg/L	1	07/26/18 01:54 AM
Benzene	ND		1.0	µg/L	1	07/26/18 01:54 AM
Bromodichloromethane	ND		1.0	µg/L	1	07/26/18 01:54 AM
Bromoform	ND		1.0	µg/L	1	07/26/18 01:54 AM
Bromomethane	ND		1.0	µg/L	1	07/26/18 01:54 AM
Carbon disulfide	ND		1.0	µg/L	1	07/26/18 01:54 AM
Carbon tetrachloride	ND		1.0	µg/L	1	07/26/18 01:54 AM
Chlorobenzene	ND		1.0	µg/L	1	07/26/18 01:54 AM
Chloroethane	ND		1.0	µg/L	1	07/26/18 01:54 AM
Chloroform	ND		1.0	µg/L	1	07/26/18 01:54 AM
Chloromethane	ND		1.0	µg/L	1	07/26/18 01:54 AM
cis-1,2-Dichloroethene	30		1.0	µg/L	1	07/26/18 01:54 AM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	07/26/18 01:54 AM
Dibromochloromethane	ND		1.0	µg/L	1	07/26/18 01:54 AM
Ethylbenzene	ND		1.0	µg/L	1	07/26/18 01:54 AM
m,p-Xylene	ND		2.0	µg/L	1	07/26/18 01:54 AM
Methylene chloride	ND		5.0	µg/L	1	07/26/18 01:54 AM
o-Xylene	ND		1.0	µg/L	1	07/26/18 01:54 AM
Styrene	ND		1.0	µg/L	1	07/26/18 01:54 AM
Tetrachloroethene	ND		1.0	µg/L	1	07/26/18 01:54 AM
Toluene	ND		1.0	µg/L	1	07/26/18 01:54 AM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	07/26/18 01:54 AM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	07/26/18 01:54 AM
Trichloroethene	70		1.0	µg/L	1	07/26/18 01:54 AM
Vinyl chloride	ND		1.0	µg/L	1	07/26/18 01:54 AM
Xylenes, Total	ND		3.0	µg/L	1	07/26/18 01:54 AM
Surr: 1,2-Dichloroethane-d4	96.0		75-120	%REC	1	07/26/18 01:54 AM
Surr: 4-Bromofluorobenzene	101		80-110	%REC	1	07/26/18 01:54 AM
Surr: Dibromofluoromethane	95.0		85-115	%REC	1	07/26/18 01:54 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 30-Jul-18

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040)
Sample ID: ATR-MW17-G071918
Collection Date: 07/19/18 03:30 PM

Work Order: 18071390
Lab ID: 18071390-03
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: Toluene-d8</i>	94.4		85-110	%REC	1	07/26/18 01:54 AM
ORGANIC CARBON, TOTAL			SW9060A			Analyst: JJG
Organic Carbon, Total	4.0		2.0	mg/L	4	07/24/18 03:28 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040)

Work Order: 18071390

Sample ID: ATR-ZVI-2(32.5)-G071918

Lab ID: 18071390-04

Collection Date: 07/19/18 04:40 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260C		Analyst: BG	
1,1,1-Trichloroethane	ND		1.0	µg/L	1	07/26/18 03:53 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	07/26/18 03:53 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	07/26/18 03:53 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	07/26/18 03:53 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	07/26/18 03:53 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	07/26/18 03:53 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	07/26/18 03:53 PM
2-Butanone	ND		5.0	µg/L	1	07/26/18 03:53 PM
2-Hexanone	ND		5.0	µg/L	1	07/26/18 03:53 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	07/26/18 03:53 PM
Acetone	ND		10	µg/L	1	07/26/18 03:53 PM
Benzene	ND		1.0	µg/L	1	07/26/18 03:53 PM
Bromodichloromethane	ND		1.0	µg/L	1	07/26/18 03:53 PM
Bromoform	ND		1.0	µg/L	1	07/26/18 03:53 PM
Bromomethane	ND		1.0	µg/L	1	07/26/18 03:53 PM
Carbon disulfide	ND		1.0	µg/L	1	07/26/18 03:53 PM
Carbon tetrachloride	ND		1.0	µg/L	1	07/26/18 03:53 PM
Chlorobenzene	ND		1.0	µg/L	1	07/26/18 03:53 PM
Chloroethane	ND		1.0	µg/L	1	07/26/18 03:53 PM
Chloroform	ND		1.0	µg/L	1	07/26/18 03:53 PM
Chloromethane	ND		1.0	µg/L	1	07/26/18 03:53 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	07/26/18 03:53 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	07/26/18 03:53 PM
Dibromochloromethane	ND		1.0	µg/L	1	07/26/18 03:53 PM
Ethylbenzene	ND		1.0	µg/L	1	07/26/18 03:53 PM
m,p-Xylene	ND		2.0	µg/L	1	07/26/18 03:53 PM
Methylene chloride	ND		5.0	µg/L	1	07/26/18 03:53 PM
o-Xylene	ND		1.0	µg/L	1	07/26/18 03:53 PM
Styrene	ND		1.0	µg/L	1	07/26/18 03:53 PM
Tetrachloroethene	ND		1.0	µg/L	1	07/26/18 03:53 PM
Toluene	ND		1.0	µg/L	1	07/26/18 03:53 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	07/26/18 03:53 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	07/26/18 03:53 PM
Trichloroethene	ND		1.0	µg/L	1	07/26/18 03:53 PM
Vinyl chloride	ND		1.0	µg/L	1	07/26/18 03:53 PM
Xylenes, Total	ND		3.0	µg/L	1	07/26/18 03:53 PM
Surr: 1,2-Dichloroethane-d4	93.0		75-120	%REC	1	07/26/18 03:53 PM
Surr: 4-Bromofluorobenzene	100		80-110	%REC	1	07/26/18 03:53 PM
Surr: Dibromofluoromethane	93.0		85-115	%REC	1	07/26/18 03:53 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 30-Jul-18

Client: Wood Environment & Infrastructure Solutions, Inc.**Project:** TFS Rochester (3359-15-1040)**Work Order:** 18071390**Sample ID:** ATR-ZVI-2(32.5)-G071918**Lab ID:** 18071390-04**Collection Date:** 07/19/18 04:40 PM**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: Toluene-d8</i>	92.3		85-110	%REC	1	07/26/18 03:53 PM
ORGANIC CARBON, TOTAL			SW9060A			Analyst: JJG
Organic Carbon, Total	3.5		0.50	mg/L	1	07/25/18 04:04 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040)

Work Order: 18071390

Sample ID: ATR-ZVI-2(17.5)-G071918

Lab ID: 18071390-05

Collection Date: 07/19/18 05:50 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260C			Analyst: BG
1,1,1-Trichloroethane	ND		1.0	µg/L	1	07/26/18 04:16 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	07/26/18 04:16 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	07/26/18 04:16 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	07/26/18 04:16 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	07/26/18 04:16 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	07/26/18 04:16 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	07/26/18 04:16 PM
2-Butanone	ND		5.0	µg/L	1	07/26/18 04:16 PM
2-Hexanone	ND		5.0	µg/L	1	07/26/18 04:16 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	07/26/18 04:16 PM
Acetone	ND		10	µg/L	1	07/26/18 04:16 PM
Benzene	ND		1.0	µg/L	1	07/26/18 04:16 PM
Bromodichloromethane	ND		1.0	µg/L	1	07/26/18 04:16 PM
Bromoform	ND		1.0	µg/L	1	07/26/18 04:16 PM
Bromomethane	ND		1.0	µg/L	1	07/26/18 04:16 PM
Carbon disulfide	ND		1.0	µg/L	1	07/26/18 04:16 PM
Carbon tetrachloride	ND		1.0	µg/L	1	07/26/18 04:16 PM
Chlorobenzene	ND		1.0	µg/L	1	07/26/18 04:16 PM
Chloroethane	ND		1.0	µg/L	1	07/26/18 04:16 PM
Chloroform	ND		1.0	µg/L	1	07/26/18 04:16 PM
Chloromethane	ND		1.0	µg/L	1	07/26/18 04:16 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	07/26/18 04:16 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	07/26/18 04:16 PM
Dibromochloromethane	ND		1.0	µg/L	1	07/26/18 04:16 PM
Ethylbenzene	ND		1.0	µg/L	1	07/26/18 04:16 PM
m,p-Xylene	ND		2.0	µg/L	1	07/26/18 04:16 PM
Methylene chloride	ND		5.0	µg/L	1	07/26/18 04:16 PM
o-Xylene	ND		1.0	µg/L	1	07/26/18 04:16 PM
Styrene	ND		1.0	µg/L	1	07/26/18 04:16 PM
Tetrachloroethene	ND		1.0	µg/L	1	07/26/18 04:16 PM
Toluene	ND		1.0	µg/L	1	07/26/18 04:16 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	07/26/18 04:16 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	07/26/18 04:16 PM
Trichloroethene	ND		1.0	µg/L	1	07/26/18 04:16 PM
Vinyl chloride	ND		1.0	µg/L	1	07/26/18 04:16 PM
Xylenes, Total	ND		3.0	µg/L	1	07/26/18 04:16 PM
Surr: 1,2-Dichloroethane-d4	94.0		75-120	%REC	1	07/26/18 04:16 PM
Surr: 4-Bromofluorobenzene	99.0		80-110	%REC	1	07/26/18 04:16 PM
Surr: Dibromofluoromethane	92.4		85-115	%REC	1	07/26/18 04:16 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 30-Jul-18

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040)

Work Order: 18071390

Sample ID: ATR-ZVI-2(17.5)-G071918

Lab ID: 18071390-05

Collection Date: 07/19/18 05:50 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: Toluene-d8</i>	92.6		85-110	%REC	1	07/26/18 04:16 PM
ORGANIC CARBON, TOTAL			SW9060A			Analyst: JJG
Organic Carbon, Total	3.3		0.50	mg/L	1	07/25/18 04:04 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040)

Work Order: 18071390

Sample ID: ATR-MW26(17.5)-G072018

Lab ID: 18071390-06

Collection Date: 07/20/18 09:10 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260C		Analyst: EMR	
1,1,1-Trichloroethane	ND		1.0	µg/L	1	07/26/18 03:01 AM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	07/26/18 03:01 AM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	07/26/18 03:01 AM
1,1-Dichloroethane	ND		1.0	µg/L	1	07/26/18 03:01 AM
1,1-Dichloroethene	ND		1.0	µg/L	1	07/26/18 03:01 AM
1,2-Dichloroethane	ND		1.0	µg/L	1	07/26/18 03:01 AM
1,2-Dichloropropane	ND		1.0	µg/L	1	07/26/18 03:01 AM
2-Butanone	ND		5.0	µg/L	1	07/26/18 03:01 AM
2-Hexanone	ND		5.0	µg/L	1	07/26/18 03:01 AM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	07/26/18 03:01 AM
Acetone	ND		10	µg/L	1	07/26/18 03:01 AM
Benzene	ND		1.0	µg/L	1	07/26/18 03:01 AM
Bromodichloromethane	ND		1.0	µg/L	1	07/26/18 03:01 AM
Bromoform	ND		1.0	µg/L	1	07/26/18 03:01 AM
Bromomethane	ND		1.0	µg/L	1	07/26/18 03:01 AM
Carbon disulfide	ND		1.0	µg/L	1	07/26/18 03:01 AM
Carbon tetrachloride	ND		1.0	µg/L	1	07/26/18 03:01 AM
Chlorobenzene	ND		1.0	µg/L	1	07/26/18 03:01 AM
Chloroethane	ND		1.0	µg/L	1	07/26/18 03:01 AM
Chloroform	ND		1.0	µg/L	1	07/26/18 03:01 AM
Chloromethane	ND		1.0	µg/L	1	07/26/18 03:01 AM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	07/26/18 03:01 AM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	07/26/18 03:01 AM
Dibromochloromethane	ND		1.0	µg/L	1	07/26/18 03:01 AM
Ethylbenzene	ND		1.0	µg/L	1	07/26/18 03:01 AM
m,p-Xylene	ND		2.0	µg/L	1	07/26/18 03:01 AM
Methylene chloride	ND		5.0	µg/L	1	07/26/18 03:01 AM
o-Xylene	ND		1.0	µg/L	1	07/26/18 03:01 AM
Styrene	ND		1.0	µg/L	1	07/26/18 03:01 AM
Tetrachloroethene	ND		1.0	µg/L	1	07/26/18 03:01 AM
Toluene	ND		1.0	µg/L	1	07/26/18 03:01 AM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	07/26/18 03:01 AM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	07/26/18 03:01 AM
Trichloroethene	ND		1.0	µg/L	1	07/26/18 03:01 AM
Vinyl chloride	ND		1.0	µg/L	1	07/26/18 03:01 AM
Xylenes, Total	ND		3.0	µg/L	1	07/26/18 03:01 AM
Surr: 1,2-Dichloroethane-d4	96.2		75-120	%REC	1	07/26/18 03:01 AM
Surr: 4-Bromofluorobenzene	98.4		80-110	%REC	1	07/26/18 03:01 AM
Surr: Dibromofluoromethane	90.8		85-115	%REC	1	07/26/18 03:01 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 30-Jul-18

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040)

Work Order: 18071390

Sample ID: ATR-MW26(17.5)-G072018

Lab ID: 18071390-06

Collection Date: 07/20/18 09:10 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: Toluene-d8</i>	93.2		85-110	%REC	1	07/26/18 03:01 AM
ORGANIC CARBON, TOTAL			SW9060A			Analyst: JJG
Organic Carbon, Total	3.6		0.50	mg/L	1	07/24/18 03:28 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040)

Work Order: 18071390

Sample ID: ATR-MW26(28.8)-G072018

Lab ID: 18071390-07

Collection Date: 07/20/18 10:35 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260C		Analyst: EMR	
1,1,1-Trichloroethane	ND		1.0	µg/L	1	07/26/18 03:23 AM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	07/26/18 03:23 AM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	07/26/18 03:23 AM
1,1-Dichloroethane	ND		1.0	µg/L	1	07/26/18 03:23 AM
1,1-Dichloroethene	ND		1.0	µg/L	1	07/26/18 03:23 AM
1,2-Dichloroethane	ND		1.0	µg/L	1	07/26/18 03:23 AM
1,2-Dichloropropane	ND		1.0	µg/L	1	07/26/18 03:23 AM
2-Butanone	ND		5.0	µg/L	1	07/26/18 03:23 AM
2-Hexanone	ND		5.0	µg/L	1	07/26/18 03:23 AM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	07/26/18 03:23 AM
Acetone	ND		10	µg/L	1	07/26/18 03:23 AM
Benzene	ND		1.0	µg/L	1	07/26/18 03:23 AM
Bromodichloromethane	ND		1.0	µg/L	1	07/26/18 03:23 AM
Bromoform	ND		1.0	µg/L	1	07/26/18 03:23 AM
Bromomethane	ND		1.0	µg/L	1	07/26/18 03:23 AM
Carbon disulfide	ND		1.0	µg/L	1	07/26/18 03:23 AM
Carbon tetrachloride	ND		1.0	µg/L	1	07/26/18 03:23 AM
Chlorobenzene	ND		1.0	µg/L	1	07/26/18 03:23 AM
Chloroethane	ND		1.0	µg/L	1	07/26/18 03:23 AM
Chloroform	ND		1.0	µg/L	1	07/26/18 03:23 AM
Chloromethane	ND		1.0	µg/L	1	07/26/18 03:23 AM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	07/26/18 03:23 AM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	07/26/18 03:23 AM
Dibromochloromethane	ND		1.0	µg/L	1	07/26/18 03:23 AM
Ethylbenzene	ND		1.0	µg/L	1	07/26/18 03:23 AM
m,p-Xylene	ND		2.0	µg/L	1	07/26/18 03:23 AM
Methylene chloride	ND		5.0	µg/L	1	07/26/18 03:23 AM
o-Xylene	ND		1.0	µg/L	1	07/26/18 03:23 AM
Styrene	ND		1.0	µg/L	1	07/26/18 03:23 AM
Tetrachloroethene	ND		1.0	µg/L	1	07/26/18 03:23 AM
Toluene	ND		1.0	µg/L	1	07/26/18 03:23 AM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	07/26/18 03:23 AM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	07/26/18 03:23 AM
Trichloroethene	ND		1.0	µg/L	1	07/26/18 03:23 AM
Vinyl chloride	ND		1.0	µg/L	1	07/26/18 03:23 AM
Xylenes, Total	ND		3.0	µg/L	1	07/26/18 03:23 AM
Surr: 1,2-Dichloroethane-d4	96.7		75-120	%REC	1	07/26/18 03:23 AM
Surr: 4-Bromofluorobenzene	99.6		80-110	%REC	1	07/26/18 03:23 AM
Surr: Dibromofluoromethane	93.4		85-115	%REC	1	07/26/18 03:23 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 30-Jul-18

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040)

Work Order: 18071390

Sample ID: ATR-MW26(28.8)-G072018

Lab ID: 18071390-07

Collection Date: 07/20/18 10:35 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: Toluene-d8</i>	93.9		85-110	%REC	1	07/26/18 03:23 AM
ORGANIC CARBON, TOTAL			SW9060A			Analyst: JJG
Organic Carbon, Total	3.9		0.50	mg/L	1	07/25/18 04:04 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040)

Work Order: 18071390

Sample ID: ATR-MW26(58.2)-G072018

Lab ID: 18071390-08

Collection Date: 07/20/18 11:35 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260C		Analyst: EMR	
1,1,1-Trichloroethane	ND		1.0	µg/L	1	07/26/18 03:45 AM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	07/26/18 03:45 AM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	07/26/18 03:45 AM
1,1-Dichloroethane	ND		1.0	µg/L	1	07/26/18 03:45 AM
1,1-Dichloroethene	ND		1.0	µg/L	1	07/26/18 03:45 AM
1,2-Dichloroethane	ND		1.0	µg/L	1	07/26/18 03:45 AM
1,2-Dichloropropane	ND		1.0	µg/L	1	07/26/18 03:45 AM
2-Butanone	ND		5.0	µg/L	1	07/26/18 03:45 AM
2-Hexanone	ND		5.0	µg/L	1	07/26/18 03:45 AM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	07/26/18 03:45 AM
Acetone	ND		10	µg/L	1	07/26/18 03:45 AM
Benzene	ND		1.0	µg/L	1	07/26/18 03:45 AM
Bromodichloromethane	ND		1.0	µg/L	1	07/26/18 03:45 AM
Bromoform	ND		1.0	µg/L	1	07/26/18 03:45 AM
Bromomethane	ND		1.0	µg/L	1	07/26/18 03:45 AM
Carbon disulfide	ND		1.0	µg/L	1	07/26/18 03:45 AM
Carbon tetrachloride	ND		1.0	µg/L	1	07/26/18 03:45 AM
Chlorobenzene	ND		1.0	µg/L	1	07/26/18 03:45 AM
Chloroethane	ND		1.0	µg/L	1	07/26/18 03:45 AM
Chloroform	ND		1.0	µg/L	1	07/26/18 03:45 AM
Chloromethane	ND		1.0	µg/L	1	07/26/18 03:45 AM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	07/26/18 03:45 AM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	07/26/18 03:45 AM
Dibromochloromethane	ND		1.0	µg/L	1	07/26/18 03:45 AM
Ethylbenzene	ND		1.0	µg/L	1	07/26/18 03:45 AM
m,p-Xylene	ND		2.0	µg/L	1	07/26/18 03:45 AM
Methylene chloride	ND		5.0	µg/L	1	07/26/18 03:45 AM
o-Xylene	ND		1.0	µg/L	1	07/26/18 03:45 AM
Styrene	ND		1.0	µg/L	1	07/26/18 03:45 AM
Tetrachloroethene	ND		1.0	µg/L	1	07/26/18 03:45 AM
Toluene	ND		1.0	µg/L	1	07/26/18 03:45 AM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	07/26/18 03:45 AM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	07/26/18 03:45 AM
Trichloroethene	ND		1.0	µg/L	1	07/26/18 03:45 AM
Vinyl chloride	ND		1.0	µg/L	1	07/26/18 03:45 AM
Xylenes, Total	ND		3.0	µg/L	1	07/26/18 03:45 AM
Surr: 1,2-Dichloroethane-d4	96.3		75-120	%REC	1	07/26/18 03:45 AM
Surr: 4-Bromofluorobenzene	100		80-110	%REC	1	07/26/18 03:45 AM
Surr: Dibromofluoromethane	96.1		85-115	%REC	1	07/26/18 03:45 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 30-Jul-18

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040)

Work Order: 18071390

Sample ID: ATR-MW26(58.2)-G072018

Lab ID: 18071390-08

Collection Date: 07/20/18 11:35 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: Toluene-d8</i>	93.6		85-110	%REC	1	07/26/18 03:45 AM
ORGANIC CARBON, TOTAL			SW9060A			Analyst: JJG
Organic Carbon, Total	1.4		0.50	mg/L	1	07/25/18 04:04 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040)

Work Order: 18071390

Sample ID: ATR-G072018-TB-03

Lab ID: 18071390-09

Collection Date: 07/20/18 01:40 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260C			Analyst: EMR
1,1,1-Trichloroethane	ND		1.0	µg/L	1	07/26/18 04:08 AM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	07/26/18 04:08 AM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	07/26/18 04:08 AM
1,1-Dichloroethane	ND		1.0	µg/L	1	07/26/18 04:08 AM
1,1-Dichloroethene	ND		1.0	µg/L	1	07/26/18 04:08 AM
1,2-Dichloroethane	ND		1.0	µg/L	1	07/26/18 04:08 AM
1,2-Dichloropropane	ND		1.0	µg/L	1	07/26/18 04:08 AM
2-Butanone	ND		5.0	µg/L	1	07/26/18 04:08 AM
2-Hexanone	ND		5.0	µg/L	1	07/26/18 04:08 AM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	07/26/18 04:08 AM
Acetone	ND		10	µg/L	1	07/26/18 04:08 AM
Benzene	ND		1.0	µg/L	1	07/26/18 04:08 AM
Bromodichloromethane	ND		1.0	µg/L	1	07/26/18 04:08 AM
Bromoform	ND		1.0	µg/L	1	07/26/18 04:08 AM
Bromomethane	ND		1.0	µg/L	1	07/26/18 04:08 AM
Carbon disulfide	ND		1.0	µg/L	1	07/26/18 04:08 AM
Carbon tetrachloride	ND		1.0	µg/L	1	07/26/18 04:08 AM
Chlorobenzene	ND		1.0	µg/L	1	07/26/18 04:08 AM
Chloroethane	ND		1.0	µg/L	1	07/26/18 04:08 AM
Chloroform	ND		1.0	µg/L	1	07/26/18 04:08 AM
Chloromethane	ND		1.0	µg/L	1	07/26/18 04:08 AM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	07/26/18 04:08 AM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	07/26/18 04:08 AM
Dibromochloromethane	ND		1.0	µg/L	1	07/26/18 04:08 AM
Ethylbenzene	ND		1.0	µg/L	1	07/26/18 04:08 AM
m,p-Xylene	ND		2.0	µg/L	1	07/26/18 04:08 AM
Methylene chloride	ND		5.0	µg/L	1	07/26/18 04:08 AM
o-Xylene	ND		1.0	µg/L	1	07/26/18 04:08 AM
Styrene	ND		1.0	µg/L	1	07/26/18 04:08 AM
Tetrachloroethene	ND		1.0	µg/L	1	07/26/18 04:08 AM
Toluene	ND		1.0	µg/L	1	07/26/18 04:08 AM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	07/26/18 04:08 AM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	07/26/18 04:08 AM
Trichloroethene	ND		1.0	µg/L	1	07/26/18 04:08 AM
Vinyl chloride	ND		1.0	µg/L	1	07/26/18 04:08 AM
Xylenes, Total	ND		3.0	µg/L	1	07/26/18 04:08 AM
Surr: 1,2-Dichloroethane-d4	96.7		75-120	%REC	1	07/26/18 04:08 AM
Surr: 4-Bromofluorobenzene	99.1		80-110	%REC	1	07/26/18 04:08 AM
Surr: Dibromofluoromethane	92.7		85-115	%REC	1	07/26/18 04:08 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 30-Jul-18

Client: Wood Environment & Infrastructure Solutions, Inc.**Project:** TFS Rochester (3359-15-1040)**Work Order:** 18071390**Sample ID:** ATR-G072018-TB-03**Lab ID:** 18071390-09**Collection Date:** 07/20/18 01:40 PM**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: Toluene-d8</i>	93.2		85-110	%REC	1	07/26/18 04:08 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 30-Jul-18

Client: Wood Environment & Infrastructure Solutions, Inc.**Project:** TFS Rochester (3359-15-1040)**Work Order:** 18071390**Sample ID:** Field Blank**Lab ID:** 18071390-10**Collection Date:** 07/19/18 02:10 PM**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
ORGANIC CARBON, TOTAL			SW9060A			Analyst: JJG
Organic Carbon, Total	ND		0.50	mg/L	1	07/24/18 03:28 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Work Order: 18071390
Project: TFS Rochester (3359-15-1040)

QC BATCH REPORT

Batch ID: **R240906a** Instrument ID **VMS11** Method: **SW8260C**

MBLK		Sample ID: VBK2-180725-R240906a				Units: µg/L		Analysis Date: 07/25/18 11:18 PM		
Client ID:		Run ID: VMS11_180725B				SeqNo: 5169122		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloroethane	ND	1.0								
1,2-Dichloropropane	ND	1.0								
2-Butanone	ND	5.0								
2-Hexanone	ND	5.0								
4-Methyl-2-pentanone	ND	1.0								
Acetone	ND	10								
Benzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	1.0								
Carbon disulfide	ND	1.0								
Carbon tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	1.0								
Chloroform	ND	1.0								
Chloromethane	ND	1.0								
cis-1,2-Dichloroethene	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
Dibromochloromethane	ND	1.0								
Ethylbenzene	ND	1.0								
m,p-Xylene	ND	2.0								
Methylene chloride	ND	5.0								
o-Xylene	ND	1.0								
Styrene	ND	1.0								
Tetrachloroethene	ND	1.0								
Toluene	ND	1.0								
trans-1,2-Dichloroethene	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
Trichloroethene	ND	1.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	3.0								
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>18.8</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>94</i>	<i>75-120</i>	<i>0</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>19.62</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>98.1</i>	<i>80-110</i>	<i>0</i>			
<i>Surr: Dibromofluoromethane</i>	<i>18.79</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>94</i>	<i>85-115</i>	<i>0</i>			
<i>Surr: Toluene-d8</i>	<i>18.78</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>93.9</i>	<i>85-110</i>	<i>0</i>			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Wood Environment & Infrastructure Solutions, Inc.
 Work Order: 18071390
 Project: TFS Rochester (3359-15-1040)

QC BATCH REPORT

Batch ID: **R240906a** Instrument ID **VMS11** Method: **SW8260C**

LCS		Sample ID: VLCSW2-180725-R240906a				Units: µg/L		Analysis Date: 07/25/18 10:33 PM		
Client ID:		Run ID: VMS11_180725B			SeqNo: 5169120		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	25.07	1.0	20	0	125	75-130	0			
1,1,2,2-Tetrachloroethane	22.67	1.0	20	0	113	75-130	0			
1,1,2-Trichloroethane	22.11	1.0	20	0	111	75-125	0			
1,1-Dichloroethane	23.98	1.0	20	0	120	68-142	0			
1,1-Dichloroethene	25.4	1.0	20	0	127	70-145	0			
1,2-Dichloroethane	21.06	1.0	20	0	105	78-125	0			
1,2-Dichloropropane	21.83	1.0	20	0	109	75-125	0			
2-Butanone	22.8	5.0	20	0	114	55-150	0			
2-Hexanone	21.61	5.0	20	0	108	60-135	0			
4-Methyl-2-pentanone	30.18	1.0	20	0	151	77-178	0			
Acetone	22.15	10	20	0	111	60-160	0			
Benzene	22.97	1.0	20	0	115	85-125	0			
Bromodichloromethane	22.69	1.0	20	0	113	75-125	0			
Bromoform	18.6	1.0	20	0	93	60-125	0			
Bromomethane	30.5	1.0	20	0	152	30-185	0			
Carbon disulfide	27.15	1.0	20	0	136	60-165	0			
Carbon tetrachloride	24.52	1.0	20	0	123	65-140	0			
Chlorobenzene	21.06	1.0	20	0	105	80-120	0			
Chloroethane	22.86	1.0	20	0	114	50-140	0			
Chloroform	22.66	1.0	20	0	113	80-130	0			
Chloromethane	22.42	1.0	20	0	112	46-148	0			
cis-1,2-Dichloroethene	22.87	1.0	20	0	114	75-134	0			
cis-1,3-Dichloropropene	23.97	1.0	20	0	120	70-130	0			
Dibromochloromethane	17.98	1.0	20	0	89.9	60-115	0			
Ethylbenzene	22.01	1.0	20	0	110	76-123	0			
m,p-Xylene	43.85	2.0	40	0	110	75-130	0			
Methylene chloride	22.62	5.0	20	0	113	75-140	0			
o-Xylene	22.08	1.0	20	0	110	76-127	0			
Styrene	22.52	1.0	20	0	113	83-137	0			
Tetrachloroethene	22.59	1.0	20	0	113	68-166	0			
Toluene	21.53	1.0	20	0	108	76-125	0			
trans-1,2-Dichloroethene	23.64	1.0	20	0	118	80-140	0			
trans-1,3-Dichloropropene	18.86	1.0	20	0	94.3	56-132	0			
Trichloroethene	24.18	1.0	20	0	121	84-130	0			
Vinyl chloride	22.9	1.0	20	0	114	50-136	0			
Xylenes, Total	65.93	3.0	60	0	110	76-127	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	18.86	0	20	0	94.3	75-120	0			
<i>Surr: 4-Bromofluorobenzene</i>	20.93	0	20	0	105	80-110	0			
<i>Surr: Dibromofluoromethane</i>	20.11	0	20	0	101	85-115	0			
<i>Surr: Toluene-d8</i>	19.02	0	20	0	95.1	85-110	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Wood Environment & Infrastructure Solutions, Inc.
 Work Order: 18071390
 Project: TFS Rochester (3359-15-1040)

QC BATCH REPORT

Batch ID: **R240906a** Instrument ID **VMS11** Method: **SW8260C**

MS		Sample ID: 18071390-04A MS				Units: µg/L		Analysis Date: 07/26/18 07:06 AM		
Client ID: ATR-ZVI-2(32.5)-G071918		Run ID: VMS11_180725B		SeqNo: 5169136		Prep Date:		DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	232.6	10	200	0	116	75-130	0			
1,1,2,2-Tetrachloroethane	203.8	10	200	0	102	75-130	0			
1,1,2-Trichloroethane	199.5	10	200	0	99.8	75-125	0			
1,1-Dichloroethane	229.3	10	200	0	115	68-142	0			
1,1-Dichloroethene	243.6	10	200	0	122	70-145	0			
1,2-Dichloroethane	201.1	10	200	0	101	78-125	0			
1,2-Dichloropropane	209.4	10	200	0	105	75-125	0			
2-Butanone	215.7	50	200	0	108	55-150	0			
2-Hexanone	199.9	50	200	0	100	60-135	0			
4-Methyl-2-pentanone	275.2	10	200	0	138	77-178	0			
Acetone	232	100	200	0	116	60-160	0			
Benzene	222.2	10	200	0	111	85-125	0			
Bromodichloromethane	197.1	10	200	0	98.6	75-125	0			
Bromoform	153.2	10	200	0	76.6	60-125	0			
Bromomethane	222.2	10	200	0	111	30-185	0			
Carbon disulfide	235.3	10	200	0	118	60-165	0			
Carbon tetrachloride	219.7	10	200	0	110	65-140	0			
Chlorobenzene	197.2	10	200	0	98.6	80-120	0			
Chloroethane	231.9	10	200	0	116	50-140	0			
Chloroform	208.1	10	200	0	104	80-130	0			
Chloromethane	218.9	10	200	0	109	46-148	0			
cis-1,2-Dichloroethene	211.5	10	200	0	106	75-134	0			
cis-1,3-Dichloropropene	201.2	10	200	0	101	70-130	0			
Dibromochloromethane	154.2	10	200	0	77.1	60-115	0			
Ethylbenzene	200.6	10	200	0	100	76-123	0			
m,p-Xylene	400.5	20	400	0	100	75-130	0			
Methylene chloride	215.7	50	200	0	108	75-140	0			
o-Xylene	200.2	10	200	0	100	76-127	0			
Styrene	198.8	10	200	0	99.4	83-137	0			
Tetrachloroethene	215.3	10	200	0	108	68-166	0			
Toluene	197.7	10	200	0	98.8	76-125	0			
trans-1,2-Dichloroethene	227.7	10	200	0	114	80-140	0			
trans-1,3-Dichloropropene	150.5	10	200	0	75.2	56-132	0			
Trichloroethene	229.5	10	200	0	115	84-130	0			
Vinyl chloride	226.7	10	200	0	113	50-136	0			
Xylenes, Total	600.7	30	600	0	100	76-127	0			
Surr: 1,2-Dichloroethane-d4	186.3	0	200	0	93.2	75-120	0			
Surr: 4-Bromofluorobenzene	205.5	0	200	0	103	80-110	0			
Surr: Dibromofluoromethane	195.4	0	200	0	97.7	85-115	0			
Surr: Toluene-d8	190.6	0	200	0	95.3	85-110	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Wood Environment & Infrastructure Solutions, Inc.
 Work Order: 18071390
 Project: TFS Rochester (3359-15-1040)

QC BATCH REPORT

Batch ID: **R240906a** Instrument ID **VMS11** Method: **SW8260C**

MSD		Sample ID: 18071390-04A MSD				Units: µg/L		Analysis Date: 07/26/18 07:28 AM		
Client ID: ATR-ZVI-2(32.5)-G071918		Run ID: VMS11_180725B		SeqNo: 5169137		Prep Date:		DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	245.2	10	200	0	123	75-130	232.6	5.27	30	
1,1,2,2-Tetrachloroethane	213	10	200	0	106	75-130	203.8	4.41	30	
1,1,2-Trichloroethane	210.7	10	200	0	105	75-125	199.5	5.46	30	
1,1-Dichloroethane	239.1	10	200	0	120	68-142	229.3	4.18	30	
1,1-Dichloroethene	248.9	10	200	0	124	70-145	243.6	2.15	30	
1,2-Dichloroethane	206.6	10	200	0	103	78-125	201.1	2.7	30	
1,2-Dichloropropane	212.3	10	200	0	106	75-125	209.4	1.38	30	
2-Butanone	217.1	50	200	0	109	55-150	215.7	0.647	30	
2-Hexanone	206	50	200	0	103	60-135	199.9	3.01	30	
4-Methyl-2-pentanone	282.9	10	200	0	141	77-178	275.2	2.76	30	
Acetone	233.2	100	200	0	117	60-160	232	0.516	30	
Benzene	227.5	10	200	0	114	85-125	222.2	2.36	30	
Bromodichloromethane	213	10	200	0	106	75-125	197.1	7.75	30	
Bromoform	162	10	200	0	81	60-125	153.2	5.58	30	
Bromomethane	246.7	10	200	0	123	30-185	222.2	10.4	30	
Carbon disulfide	255.7	10	200	0	128	60-165	235.3	8.31	30	
Carbon tetrachloride	236.5	10	200	0	118	65-140	219.7	7.37	30	
Chlorobenzene	207	10	200	0	104	80-120	197.2	4.85	30	
Chloroethane	230.3	10	200	0	115	50-140	231.9	0.692	30	
Chloroform	218.2	10	200	0	109	80-130	208.1	4.74	30	
Chloromethane	220.5	10	200	0	110	46-148	218.9	0.728	30	
cis-1,2-Dichloroethene	222.5	10	200	0	111	75-134	211.5	5.07	30	
cis-1,3-Dichloropropene	209.4	10	200	0	105	70-130	201.2	3.99	30	
Dibromochloromethane	162.7	10	200	0	81.4	60-115	154.2	5.36	30	
Ethylbenzene	211.1	10	200	0	106	76-123	200.6	5.1	30	
m,p-Xylene	422.8	20	400	0	106	75-130	400.5	5.42	30	
Methylene chloride	223.1	50	200	0	112	75-140	215.7	3.37	30	
o-Xylene	211.2	10	200	0	106	76-127	200.2	5.35	30	
Styrene	214.9	10	200	0	107	83-137	198.8	7.78	30	
Tetrachloroethene	225.7	10	200	0	113	68-166	215.3	4.72	30	
Toluene	207.5	10	200	0	104	76-125	197.7	4.84	30	
trans-1,2-Dichloroethene	229.1	10	200	0	115	80-140	227.7	0.613	30	
trans-1,3-Dichloropropene	162.1	10	200	0	81	56-132	150.5	7.42	30	
Trichloroethene	236.2	10	200	0	118	84-130	229.5	2.88	30	
Vinyl chloride	238.8	10	200	0	119	50-136	226.7	5.2	30	
Xylenes, Total	634	30	600	0	106	76-127	600.7	5.39	30	
Surr: 1,2-Dichloroethane-d4	190.4	0	200	0	95.2	75-120	186.3	2.18	30	
Surr: 4-Bromofluorobenzene	206.4	0	200	0	103	80-110	205.5	0.437	30	
Surr: Dibromofluoromethane	200.4	0	200	0	100	85-115	195.4	2.53	30	
Surr: Toluene-d8	191	0	200	0	95.5	85-110	190.6	0.21	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Wood Environment & Infrastructure Solutions, Inc.

QC BATCH REPORT

Work Order: 18071390

Project: TFS Rochester (3359-15-1040)

Batch ID: **R240906a**

Instrument ID **VMS11**

Method: **SW8260C**

The following samples were analyzed in this batch:

18071390-01A	18071390-02A	18071390-03A
18071390-04A	18071390-05A	18071390-06A
18071390-07A	18071390-08A	18071390-09A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Wood Environment & Infrastructure Solutions, Inc.
Work Order: 18071390
Project: TFS Rochester (3359-15-1040)

QC BATCH REPORT

Batch ID: **R240930A** Instrument ID **VMS11** Method: **SW8260C**

MBLK		Sample ID: VBLKW1-180726-R240930A				Units: µg/L		Analysis Date: 07/26/18 10:33 AM		
Client ID:		Run ID: VMS11_180726A		SeqNo: 5171563		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloroethane	ND	1.0								
1,2-Dichloropropane	ND	1.0								
2-Butanone	ND	5.0								
2-Hexanone	ND	5.0								
4-Methyl-2-pentanone	ND	1.0								
Acetone	ND	10								
Benzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	1.0								
Carbon disulfide	ND	1.0								
Carbon tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	1.0								
Chloroform	ND	1.0								
Chloromethane	ND	1.0								
cis-1,2-Dichloroethene	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
Dibromochloromethane	ND	1.0								
Ethylbenzene	ND	1.0								
m,p-Xylene	ND	2.0								
Methylene chloride	ND	5.0								
o-Xylene	ND	1.0								
Styrene	ND	1.0								
Tetrachloroethene	ND	1.0								
Toluene	ND	1.0								
trans-1,2-Dichloroethene	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
Trichloroethene	ND	1.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	3.0								
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>19.41</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>97</i>	<i>75-120</i>	<i>0</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>20.27</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>101</i>	<i>80-110</i>	<i>0</i>			
<i>Surr: Dibromofluoromethane</i>	<i>19.44</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>97.2</i>	<i>85-115</i>	<i>0</i>			
<i>Surr: Toluene-d8</i>	<i>18.5</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>92.5</i>	<i>85-110</i>	<i>0</i>			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Wood Environment & Infrastructure Solutions, Inc.
 Work Order: 18071390
 Project: TFS Rochester (3359-15-1040)

QC BATCH REPORT

Batch ID: **R240930A** Instrument ID **VMS11** Method: **SW8260C**

LCS		Sample ID: VLCSW1-180726-R240930A				Units: µg/L		Analysis Date: 07/26/18 09:48 AM		
Client ID:		Run ID: VMS11_180726A		SeqNo: 5171562		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	22.61	1.0	20	0	113	75-130	0			
1,1,2,2-Tetrachloroethane	20.56	1.0	20	0	103	75-130	0			
1,1,2-Trichloroethane	20.29	1.0	20	0	101	75-125	0			
1,1-Dichloroethane	21.81	1.0	20	0	109	68-142	0			
1,1-Dichloroethene	22.4	1.0	20	0	112	70-145	0			
1,2-Dichloroethane	19.44	1.0	20	0	97.2	78-125	0			
1,2-Dichloropropane	19.69	1.0	20	0	98.4	75-125	0			
2-Butanone	20.71	5.0	20	0	104	55-150	0			
2-Hexanone	20.04	5.0	20	0	100	60-135	0			
4-Methyl-2-pentanone	28.05	1.0	20	0	140	77-178	0			
Acetone	18.53	10	20	0	92.6	60-160	0			
Benzene	21.09	1.0	20	0	105	85-125	0			
Bromodichloromethane	20.93	1.0	20	0	105	75-125	0			
Bromoform	17.11	1.0	20	0	85.6	60-125	0			
Bromomethane	28.4	1.0	20	0	142	30-185	0			
Carbon disulfide	24.74	1.0	20	0	124	60-165	0			
Carbon tetrachloride	21.99	1.0	20	0	110	65-140	0			
Chlorobenzene	19.46	1.0	20	0	97.3	80-120	0			
Chloroethane	19.86	1.0	20	0	99.3	50-140	0			
Chloroform	20.57	1.0	20	0	103	80-130	0			
Chloromethane	19.05	1.0	20	0	95.2	46-148	0			
cis-1,2-Dichloroethene	21.21	1.0	20	0	106	75-134	0			
cis-1,3-Dichloropropene	21.62	1.0	20	0	108	70-130	0			
Dibromochloromethane	16.35	1.0	20	0	81.8	60-115	0			
Ethylbenzene	19.59	1.0	20	0	98	76-123	0			
m,p-Xylene	39.11	2.0	40	0	97.8	75-130	0			
Methylene chloride	20.87	5.0	20	0	104	75-140	0			
o-Xylene	19.73	1.0	20	0	98.6	76-127	0			
Styrene	20.1	1.0	20	0	100	83-137	0			
Tetrachloroethene	20.63	1.0	20	0	103	68-166	0			
Toluene	19.44	1.0	20	0	97.2	76-125	0			
trans-1,2-Dichloroethene	20.98	1.0	20	0	105	80-140	0			
trans-1,3-Dichloropropene	17.16	1.0	20	0	85.8	56-132	0			
Trichloroethene	21.79	1.0	20	0	109	84-130	0			
Vinyl chloride	19.86	1.0	20	0	99.3	50-136	0			
Xylenes, Total	58.84	3.0	60	0	98.1	76-127	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>19.1</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>95.5</i>	<i>75-120</i>	<i>0</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>21.29</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>106</i>	<i>80-110</i>	<i>0</i>			
<i>Surr: Dibromofluoromethane</i>	<i>20.81</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>104</i>	<i>85-115</i>	<i>0</i>			
<i>Surr: Toluene-d8</i>	<i>18.97</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>94.8</i>	<i>85-110</i>	<i>0</i>			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Wood Environment & Infrastructure Solutions, Inc.
 Work Order: 18071390
 Project: TFS Rochester (3359-15-1040)

QC BATCH REPORT

Batch ID: **R240930A** Instrument ID **VMS11** Method: **SW8260C**

MS		Sample ID: 18071635-05A MS				Units: µg/L		Analysis Date: 07/26/18 06:55 PM		
Client ID:		Run ID: VMS11_180726A		SeqNo: 5171575		Prep Date:		DF: 50		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1076	50	1000	0	108	75-130	0			
1,1,2,2-Tetrachloroethane	985	50	1000	0	98.5	75-130	0			
1,1,2-Trichloroethane	955.5	50	1000	0	95.6	75-125	0			
1,1-Dichloroethane	1067	50	1000	0	107	68-142	0			
1,1-Dichloroethene	1104	50	1000	0	110	70-145	0			
1,2-Dichloroethane	959.5	50	1000	0	96	78-125	0			
1,2-Dichloropropane	974	50	1000	0	97.4	75-125	0			
2-Butanone	1044	250	1000	0	104	55-150	0			
2-Hexanone	926.5	250	1000	0	92.6	60-135	0			
4-Methyl-2-pentanone	1304	50	1000	0	130	77-178	0			
Acetone	981.5	500	1000	0	98.2	60-160	0			
Benzene	1015	50	1000	0	102	85-125	0			
Bromodichloromethane	959.5	50	1000	0	96	75-125	0			
Bromoform	717.5	50	1000	0	71.8	60-125	0			
Bromomethane	1342	50	1000	0	134	30-185	0			
Carbon disulfide	1030	50	1000	0	103	60-165	0			
Carbon tetrachloride	1016	50	1000	0	102	65-140	0			
Chlorobenzene	955	50	1000	0	95.5	80-120	0			
Chloroethane	1006	50	1000	0	101	50-140	0			
Chloroform	1002	50	1000	0	100	80-130	0			
Chloromethane	954	50	1000	0	95.4	46-148	0			
cis-1,2-Dichloroethene	1037	50	1000	0	104	75-134	0			
cis-1,3-Dichloropropene	1008	50	1000	0	101	70-130	0			
Dibromochloromethane	727	50	1000	0	72.7	60-115	0			
Ethylbenzene	1308	50	1000	338.5	96.9	76-123	0			
m,p-Xylene	2863	100	2000	940.5	96.1	75-130	0			
Methylene chloride	998.5	250	1000	0	99.8	75-140	0			
o-Xylene	992	50	1000	30.5	96.2	76-127	0			
Styrene	988.5	50	1000	0	98.8	83-137	0			
Tetrachloroethene	1011	50	1000	0	101	68-166	0			
Toluene	950.5	50	1000	0	95	76-125	0			
trans-1,2-Dichloroethene	1036	50	1000	0	104	80-140	0			
trans-1,3-Dichloropropene	764	50	1000	0	76.4	56-132	0			
Trichloroethene	1077	50	1000	0	108	84-130	0			
Vinyl chloride	984.5	50	1000	0	98.4	50-136	0			
Xylenes, Total	3855	150	3000	971	96.1	76-127	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>954.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>95.4</i>	<i>75-120</i>	<i>0</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>1024</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>102</i>	<i>80-110</i>	<i>0</i>			
<i>Surr: Dibromofluoromethane</i>	<i>955.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>95.6</i>	<i>85-115</i>	<i>0</i>			
<i>Surr: Toluene-d8</i>	<i>930.5</i>	<i>0</i>	<i>1000</i>	<i>0</i>	<i>93</i>	<i>85-110</i>	<i>0</i>			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Wood Environment & Infrastructure Solutions, Inc.
 Work Order: 18071390
 Project: TFS Rochester (3359-15-1040)

QC BATCH REPORT

Batch ID: **R240930A** Instrument ID **VMS11** Method: **SW8260C**

MSD		Sample ID: 18071635-05A MSD				Units: µg/L		Analysis Date: 07/26/18 07:17 PM		
Client ID:		Run ID: VMS11_180726A		SeqNo: 5171577		Prep Date:		DF: 50		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	1082	50	1000	0	108	75-130	1076	0.556	30	
1,1,2,2-Tetrachloroethane	1037	50	1000	0	104	75-130	985	5.14	30	
1,1,2-Trichloroethane	1011	50	1000	0	101	75-125	955.5	5.64	30	
1,1-Dichloroethane	1082	50	1000	0	108	68-142	1067	1.35	30	
1,1-Dichloroethene	1115	50	1000	0	112	70-145	1104	0.946	30	
1,2-Dichloroethane	970	50	1000	0	97	78-125	959.5	1.09	30	
1,2-Dichloropropane	971	50	1000	0	97.1	75-125	974	0.308	30	
2-Butanone	1096	250	1000	0	110	55-150	1044	4.86	30	
2-Hexanone	983	250	1000	0	98.3	60-135	926.5	5.92	30	
4-Methyl-2-pentanone	1353	50	1000	0	135	77-178	1304	3.65	30	
Acetone	1028	500	1000	0	103	60-160	981.5	4.63	30	
Benzene	1008	50	1000	0	101	85-125	1015	0.642	30	
Bromodichloromethane	970	50	1000	0	97	75-125	959.5	1.09	30	
Bromoform	784.5	50	1000	0	78.4	60-125	717.5	8.92	30	
Bromomethane	1474	50	1000	0	147	30-185	1342	9.34	30	
Carbon disulfide	1078	50	1000	0	108	60-165	1030	4.51	30	
Carbon tetrachloride	1020	50	1000	0	102	65-140	1016	0.491	30	
Chlorobenzene	947	50	1000	0	94.7	80-120	955	0.841	30	
Chloroethane	1038	50	1000	0	104	50-140	1006	3.13	30	
Chloroform	1017	50	1000	0	102	80-130	1002	1.44	30	
Chloromethane	947	50	1000	0	94.7	46-148	954	0.736	30	
cis-1,2-Dichloroethene	1052	50	1000	0	105	75-134	1037	1.48	30	
cis-1,3-Dichloropropene	1022	50	1000	0	102	70-130	1008	1.33	30	
Dibromochloromethane	773.5	50	1000	0	77.4	60-115	727	6.2	30	
Ethylbenzene	1312	50	1000	338.5	97.4	76-123	1308	0.344	30	
m,p-Xylene	2856	100	2000	940.5	95.8	75-130	2863	0.227	30	
Methylene chloride	1064	250	1000	0	106	75-140	998.5	6.35	30	
o-Xylene	995	50	1000	30.5	96.4	76-127	992	0.302	30	
Styrene	1008	50	1000	0	101	83-137	988.5	1.9	30	
Tetrachloroethene	1032	50	1000	0	103	68-166	1011	2.1	30	
Toluene	938	50	1000	0	93.8	76-125	950.5	1.32	30	
trans-1,2-Dichloroethene	1062	50	1000	0	106	80-140	1036	2.43	30	
trans-1,3-Dichloropropene	801	50	1000	0	80.1	56-132	764	4.73	30	
Trichloroethene	1059	50	1000	0	106	84-130	1077	1.69	30	
Vinyl chloride	988	50	1000	0	98.8	50-136	984.5	0.355	30	
Xylenes, Total	3852	150	3000	971	96	76-127	3855	0.0908	30	
Surr: 1,2-Dichloroethane-d4	942	0	1000	0	94.2	75-120	954.5	1.32	30	
Surr: 4-Bromofluorobenzene	1040	0	1000	0	104	80-110	1024	1.45	30	
Surr: Dibromofluoromethane	995.5	0	1000	0	99.6	85-115	955.5	4.1	30	
Surr: Toluene-d8	941.5	0	1000	0	94.2	85-110	930.5	1.18	30	

The following samples were analyzed in this batch:

18071390-01A	18071390-04A	18071390-05A
--------------	--------------	--------------

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Wood Environment & Infrastructure Solutions, Inc.
Work Order: 18071390
Project: TFS Rochester (3359-15-1040)

QC BATCH REPORT

Batch ID: **R240866** Instrument ID **TOC3** Method: **SW9060A**

MBLK		Sample ID: MBLK-R240866				Units: mg/L		Analysis Date: 07/24/18 03:28 PM		
Client ID:		Run ID: TOC3_180724A		SeqNo: 5166707		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	ND	0.50								

LCS		Sample ID: LCS-R240866				Units: mg/L		Analysis Date: 07/24/18 03:28 PM		
Client ID:		Run ID: TOC3_180724A		SeqNo: 5166708		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	5.287	0.50	5	0	106	91-110	0			

MS		Sample ID: 18071390-06B MS				Units: mg/L		Analysis Date: 07/24/18 03:28 PM		
Client ID: ATR-MW26(17.5)-G072018		Run ID: TOC3_180724A		SeqNo: 5166738		Prep Date:		DF: 4		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	23.97	2.0	20	3.601	102	87-120	0			

MSD		Sample ID: 18071390-06B MSD				Units: mg/L		Analysis Date: 07/24/18 03:28 PM		
Client ID: ATR-MW26(17.5)-G072018		Run ID: TOC3_180724A		SeqNo: 5166739		Prep Date:		DF: 4		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	23.96	2.0	20	3.601	102	87-120	23.97	0.0167	10	

The following samples were analyzed in this batch:

18071390-01B	18071390-02B	18071390-03B
18071390-04B	18071390-05B	18071390-06B
18071390-07B	18071390-08B	18071390-10A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Wood Environment & Infrastructure Solutions, Inc.
Work Order: 18071390
Project: TFS Rochester (3359-15-1040)

QC BATCH REPORT

Batch ID: **R241130B** Instrument ID **TOC3** Method: **SW9060A**

MBLK		Sample ID: MBLK-R241130B				Units: mg/L		Analysis Date: 07/25/18 04:04 PM			
Client ID:		Run ID: TOC3_180725A				SeqNo: 5173420		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Organic Carbon, Total	ND	0.50									

LCS		Sample ID: LCS-R241130B				Units: mg/L		Analysis Date: 07/25/18 04:04 PM			
Client ID:		Run ID: TOC3_180725A				SeqNo: 5173421		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Organic Carbon, Total	5.12	0.50	5	0	102	91-110	0				

MS		Sample ID: 18071390-04B MS				Units: mg/L		Analysis Date: 07/25/18 04:04 PM			
Client ID: ATR-ZVI-2(32.5)-G071918		Run ID: TOC3_180725A				SeqNo: 5173410		Prep Date:		DF: 4	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Organic Carbon, Total	23.62	2.0	20	3.529	100	87-120	0				

MSD		Sample ID: 18071390-04B MSD				Units: mg/L		Analysis Date: 07/25/18 04:04 PM			
Client ID: ATR-ZVI-2(32.5)-G071918		Run ID: TOC3_180725A				SeqNo: 5173411		Prep Date:		DF: 4	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Organic Carbon, Total	23.72	2.0	20	3.529	101	87-120	23.62	0.456	10		

The following samples were analyzed in this batch:

18071390-04B	18071390-05B	18071390-07B
18071390-08B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



Ship To: **ALS Environmental**
 4388 Glendale Milford Rd.
 Cincinnati, Ohio 45242
 Phone: (513) 733-5336
 Fax: (513) 733-5347

Field Chain-of-Custody Record

Page 1 of 1

18071390
 46573

REV 10/2017

Date: 7/20/2018 Purchase Order No.: CO126 05142
 Company Name: Wood E & IS Project No.: 3359-15-1040.15
 Address: 521 Byers Rd., Suite 204 Sampling Site: Textron, Inc.
Miamisburg OH 45432
 City State Zip
 Person to Contact: Paul Stork Billing Address (if different): _____
 Email Address: paul.stork@woodplc.com
 Telephone (937): 859-3600
 Alternate Contact: Russell Dornbusch

REGULAR Status RUSH Status RESULTS REQUIRED BY: (Date) _____
 CONTACT ALS ENVIRONMENTAL PRIOR TO SENDING SAMPLES
 OH VAP: YES NO BUSTR: YES NO NELAC: YES NO

ALS Lab ID	Sample ID / Description	Date	Time	Preservation Key #	Sample Type / Matrix Key Abbr.	# of Sample Containers	ANALYSIS REQUESTED													
							VOC	8260B	TOC											
1	ATR-MW16-G071918-1445	7/19/18	1445	1,3,9 W	4	X	X													
2	ATR-MW17-G071918R		1530	1,3,9 W	4	X	X													
3	ATR-MW17-G071918		1530	1,3,9 W	4	X	X													
4	ATR-ZVI-2(32.5)-G071918		1640	1,3,9 W	4	X	X													
5	ATR-ZVI-2(17.5)-G071918		1750	1,3,9 W	4	X	X													
6	ATR-MW26(17.5)-G072018	7/20/18	0910	1,3,9 W	4	X	X													
7	ATR-MW26(28.8)-G072018		1035	1,3,9 W	4	X	X													
8	ATR-MW26(58.2)-G072018		1135	1,3,9 W	4	X	X													
9	ATR-G072018-TB-03	7/20/18	1340	1,9 W	1	X	X													

Notes: 10 FIELD BLANK 07/19/18 1410 X

Preservation Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₈ 6-NaHSO₃ 7-NaOH/ZnAcetate 8-Other 9-4°C Matrix Key: A-Air B-Bulk S-Soil W-Water

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.

Relinquished By: <u>[Signature]</u>	Time / Date: <u>7/20/18</u>	Received By: <u>[Signature]</u>	Time / Date: <u>7/20/18 MBO</u>
Relinquished By: <u>[Signature]</u>	Time / Date: <u>7/20/18 1540</u>	Received By: <u>[Signature]</u>	Time / Date: <u>7/21/18 1000</u>
Relinquished By: _____	Time / Date: _____	Received By: _____	Time / Date: _____

ALS LAB USE ONLY

COOLER TEMP: 4.0 °C TAKEN WITH IR#: 119063 119059

COOLING METHOD: NONE COOLER WET ICE DRY ICE ICE PACK

DELIVERY METHOD: CLIENT DROP BOX FEDEX UPS
 STD MAIL PRY MAIL ALS COURIER OTHER: _____

CUSTODY SEALS: NOT REQUIRED COOLER PACKAGE SAMPLES

pH ADJUSTMENTS: _____

Sample Receipt Checklist

Client Name: **AMEC - DAYTON**

Date/Time Received: **21-Jul-18 10:00**

Work Order: **18071390**

Received by: **DS**

Checklist completed by Diane Shaw 23-Jul-18
eSignature Date

Reviewed by: Tom Bramish 23-Jul-18
eSignature Date

Matrices: Water

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<input type="text" value="4.0/4.0 c"/>		<input type="text" value="SR2"/>
Cooler(s)/Kit(s):	<input type="text"/>		
Date/Time sample(s) sent to storage:	<input type="text" value="7/23/2018 1:22:48 PM"/>		
Water - VOA vials have zero headspace?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted by:	<input type="text"/>		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:



06-Aug-2018

Paul Stork
Wood Environment & Infrastructure Solutions, Inc.
521 Byers Road, Suite 204
Miamisburg, OH 45342

Re: **TFS Rochester (3359-15-1040.15)**

Work Order: **18071884**

Dear Paul,

ALS Environmental received 45 samples on 28-Jul-2018 for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 126.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

A handwritten signature in black ink, appearing to read "Tom Beamish".

Electronically approved by: Tom Beamish

Tom Beamish
Senior Project Manager

Report of Laboratory Analysis

Certificate No: IN: C-MI-08

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.15)
Work Order: 18071884

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
18071884-01	ATR-MW25(16.4)-G072318	Water		07/23/18 11:55	07/28/18 10:30	<input type="checkbox"/>
18071884-02	ATR-MW25(32.6)-G072318	Water		07/23/18 12:45	07/28/18 10:30	<input type="checkbox"/>
18071884-03	ATR-MW15-G072318	Water		07/23/18 14:35	07/28/18 10:30	<input type="checkbox"/>
18071884-04	ATR-MW15-G072318-EB	Water		07/23/18 15:00	07/28/18 10:30	<input type="checkbox"/>
18071884-05	ATR-OW5(44)-G072318	Water		07/23/18 14:30	07/28/18 10:30	<input type="checkbox"/>
18071884-06	ATR-OW5(35)-G072318	Water		07/23/18 13:10	07/28/18 10:30	<input type="checkbox"/>
18071884-07	ATR-OW5(16)-G072318	Water		07/23/18 11:45	07/28/18 10:30	<input type="checkbox"/>
18071884-08	ATR-MW24(55.4)-G072318-1410	Water		07/23/18 14:10	07/28/18 10:30	<input type="checkbox"/>
18071884-09	ATR-MW24(55.4)-G072318-1410-R	Water		07/23/18 14:10	07/28/18 10:30	<input type="checkbox"/>
18071884-10	ATR-MW24(24.9)-G072318-1315	Water		07/23/18 13:15	07/28/18 10:30	<input type="checkbox"/>
18071884-11	ATR-OW2(55)-G072318-1145	Water		07/23/18 11:45	07/28/18 10:30	<input type="checkbox"/>
18071884-12	ATR-OW2(33)-G072318-1610	Water		07/23/18 16:10	07/28/18 10:30	<input type="checkbox"/>
18071884-13	ATR-OW4(35)-G072318	Water		07/23/18 15:45	07/28/18 10:30	<input type="checkbox"/>
18071884-14	ATR-MW59(29)-G072418	Water		07/24/18 16:35	07/28/18 10:30	<input type="checkbox"/>
18071884-15	ATR-MW59(29)-G072418-R	Water		07/24/18 16:35	07/28/18 10:30	<input type="checkbox"/>
18071884-16	ATR-MW81(27)-G072418	Water		07/24/18 15:30	07/28/18 10:30	<input type="checkbox"/>
18071884-17	ATR-PM2-G072418	Water		07/24/18 14:20	07/28/18 10:30	<input type="checkbox"/>
18071884-18	ATR-OW1(28)-G072418	Water		07/24/18 11:25	07/28/18 10:30	<input type="checkbox"/>
18071884-19	ATR-OW1(28)-G072418-EB	Water		07/24/18 11:40	07/28/18 10:30	<input type="checkbox"/>
18071884-20	ATR-OW1(39)-G072418	Water		07/24/18 10:15	07/28/18 10:30	<input type="checkbox"/>
18071884-21	ATR-OW4(54)-G072418	Water		07/24/18 09:10	07/28/18 10:30	<input type="checkbox"/>
18071884-22	ATR-MW82(58)-G072418	Water		07/24/18 16:55	07/28/18 10:30	<input type="checkbox"/>
18071884-23	ATR-MW25(45.2)-G072418	Water		07/24/18 09:15	07/28/18 10:30	<input type="checkbox"/>
18071884-24	ATR-MW14-G072418	Water		07/24/18 11:35	07/28/18 10:30	<input type="checkbox"/>
18071884-25	ATR-PM-3-G072418	Water		07/24/18 14:15	07/28/18 10:30	<input type="checkbox"/>
18071884-26	ATR-PM-3-G072418-R	Water		07/24/18 14:15	07/28/18 10:30	<input type="checkbox"/>
18071884-27	ATR-MW62(36)-G072418-1740	Water		07/24/18 17:40	07/28/18 10:30	<input type="checkbox"/>
18071884-28	ATR-OW3(35)-G072418-0925	Water		07/24/18 09:25	07/28/18 10:30	<input type="checkbox"/>
18071884-29	ATR-OW3(55)-G072418-1050	Water		07/24/18 10:50	07/28/18 10:30	<input type="checkbox"/>
18071884-30	ATR-MW20(35)-G072418-1455	Water		07/24/18 14:55	07/28/18 10:30	<input type="checkbox"/>
18071884-31	ATR-MW20(51)-G0724718-1615	Water		07/24/18 16:15	07/28/18 10:30	<input type="checkbox"/>
18071884-32	ATR-MW72(32)-G072518	Water		07/25/18 10:25	07/28/18 10:30	<input type="checkbox"/>
18071884-33	ATR-MW71(33)-G072518	Water		07/25/18 11:30	07/28/18 10:30	<input type="checkbox"/>
18071884-34	ATR-MW67(30)-G072518	Water		07/25/18 12:25	07/28/18 10:30	<input type="checkbox"/>
18071884-35	ATR-MW68(32)-G072518	Water		07/25/18 13:25	07/28/18 10:30	<input type="checkbox"/>
18071884-36	ATR-MW77(41)-G072518	Water		07/25/18 15:40	07/28/18 10:30	<input type="checkbox"/>
18071884-37	ATR-MW78(35)-G072518	Water		07/25/18 14:05	07/28/18 10:30	<input type="checkbox"/>
18071884-38	ATR-MW78(35)-G072518-EB	Water		07/25/18 14:35	07/28/18 10:30	<input type="checkbox"/>
18071884-39	ATR-MW76(30)-G072518	Water		07/25/18 12:40	07/28/18 10:30	<input type="checkbox"/>

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.15)
Work Order: 18071884

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
18071884-40	ATR-MW76(30)-G072518-R	Water		07/25/18 12:40	07/28/18 10:30	<input type="checkbox"/>
18071884-41	ATR-MW12-G072618	Water		07/26/18 09:10	07/28/18 10:30	<input type="checkbox"/>
18071884-42	ATR-MW13-G072618	Water		07/26/18 10:10	07/28/18 10:30	<input type="checkbox"/>
18071884-43	ATR-MW13-G072618-EB	Water		07/26/18 10:00	07/28/18 10:30	<input type="checkbox"/>
18071884-44	ATR-MW6C-G072618	Water		07/26/18 08:45	07/28/18 10:30	<input type="checkbox"/>
18071884-45	ATR-072618-TB1	Water		07/26/18 12:15	07/28/18 10:30	<input type="checkbox"/>

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.15)
WorkOrder: 18071884

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCS D	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
µg/L	Micrograms per Liter
mg/L	Milligrams per Liter

Client: Wood Environment & Infrastructure Solutions, Inc
Project: TFS Rochester (3359-15-1040.15)
Work Order: 18071884

Case Narrative

Samples for the above noted Work Order were received on 07/28/18. The attached "Sample Receipt Checklist" documents the status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting. A copy of the laboratory's scope of accreditation is available upon request.

With the following exceptions, all sample analyses achieved analytical criteria.

Volatile Organics:

Batch R241376, Method VOC_8260_W, Sample VLCSW1-180801: The LCS recovery was above the upper control limit. All the sample results in the batch were non-detect. No qualification is necessary for Chloroethane.

Batch R241376, Method VOC_8260_W, Sample 18071884-35A MS and -35A MSD: The MS and/or MSD recovery was above the upper control limit. The corresponding results in the parent sample may be biased high for Bromomethane, Chloroethane, and cis-1,2-Dichloroethene.

Batch R241432a, Method VOC_8260_W, Sample VLCSW1-180802: The LCS recovery was above the upper control limit. All the sample results in the batch were non-detect. No qualification is necessary for Chloroethane.

Batch R241432a, Method VOC_8260_W, Sample 18071884-16A MS and -16A MSD: The MS and/or MSD recovery was above the upper control limit. The corresponding results in the parent sample may be biased high for Chloroethane and cis-1,2-Dichloroethene.

Batch R241432a, Method VOC_8260_W, Sample 18071884-16A MSD: The RPD between the MS and MSD was outside the control limit. The corresponding result in the parent sample should be considered estimated for Bromomethane.

No other deviations or anomalies were noted.

Client: Wood Environment & Infrastructure Solutions, Inc
Project: TFS Rochester (3359-15-1040.15)
Work Order: 18071884

Case Narrative

Wet Chemistry:
No deviations or anomalies were noted.

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040.15)

Work Order: 18071884

Sample ID: ATR-MW25(16.4)-G072318

Lab ID: 18071884-01

Collection Date: 07/23/18 11:55 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260C			Analyst: LSY
1,1,1-Trichloroethane	ND		1.0	µg/L	1	07/31/18 03:12 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	07/31/18 03:12 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	07/31/18 03:12 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	07/31/18 03:12 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	07/31/18 03:12 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	07/31/18 03:12 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	07/31/18 03:12 PM
2-Butanone	ND		5.0	µg/L	1	07/31/18 03:12 PM
2-Hexanone	ND		5.0	µg/L	1	07/31/18 03:12 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	07/31/18 03:12 PM
Acetone	ND		10	µg/L	1	07/31/18 03:12 PM
Benzene	ND		1.0	µg/L	1	07/31/18 03:12 PM
Bromodichloromethane	ND		1.0	µg/L	1	07/31/18 03:12 PM
Bromoform	ND		1.0	µg/L	1	07/31/18 03:12 PM
Bromomethane	ND		1.0	µg/L	1	07/31/18 03:12 PM
Carbon disulfide	ND		1.0	µg/L	1	07/31/18 03:12 PM
Carbon tetrachloride	ND		1.0	µg/L	1	07/31/18 03:12 PM
Chlorobenzene	ND		1.0	µg/L	1	07/31/18 03:12 PM
Chloroethane	ND		1.0	µg/L	1	07/31/18 03:12 PM
Chloroform	ND		1.0	µg/L	1	07/31/18 03:12 PM
Chloromethane	ND		1.0	µg/L	1	07/31/18 03:12 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	07/31/18 03:12 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	07/31/18 03:12 PM
Dibromochloromethane	ND		1.0	µg/L	1	07/31/18 03:12 PM
Ethylbenzene	ND		1.0	µg/L	1	07/31/18 03:12 PM
m,p-Xylene	ND		2.0	µg/L	1	07/31/18 03:12 PM
Methylene chloride	ND		5.0	µg/L	1	07/31/18 03:12 PM
o-Xylene	ND		1.0	µg/L	1	07/31/18 03:12 PM
Styrene	ND		1.0	µg/L	1	07/31/18 03:12 PM
Tetrachloroethene	ND		1.0	µg/L	1	07/31/18 03:12 PM
Toluene	ND		1.0	µg/L	1	07/31/18 03:12 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	07/31/18 03:12 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	07/31/18 03:12 PM
Trichloroethene	ND		1.0	µg/L	1	07/31/18 03:12 PM
Vinyl chloride	ND		1.0	µg/L	1	07/31/18 03:12 PM
Xylenes, Total	ND		3.0	µg/L	1	07/31/18 03:12 PM
Surr: 1,2-Dichloroethane-d4	102		75-120	%REC	1	07/31/18 03:12 PM
Surr: 4-Bromofluorobenzene	96.6		80-110	%REC	1	07/31/18 03:12 PM
Surr: Dibromofluoromethane	99.3		85-115	%REC	1	07/31/18 03:12 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 06-Aug-18

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.15)
Sample ID: ATR-MW25(16.4)-G072318
Collection Date: 07/23/18 11:55 AM

Work Order: 18071884
Lab ID: 18071884-01
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: Toluene-d8</i>	98.6		85-110	%REC	1	07/31/18 03:12 PM
ORGANIC CARBON, TOTAL			SW9060A			Analyst: JJG
Organic Carbon, Total	4.6		0.50	mg/L	1	07/31/18 04:57 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040.15)

Work Order: 18071884

Sample ID: ATR-MW25(32.6)-G072318

Lab ID: 18071884-02

Collection Date: 07/23/18 12:45 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260C		Analyst: LSY	
1,1,1-Trichloroethane	ND		1.0	µg/L	1	07/31/18 03:28 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	07/31/18 03:28 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	07/31/18 03:28 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	07/31/18 03:28 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	07/31/18 03:28 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	07/31/18 03:28 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	07/31/18 03:28 PM
2-Butanone	ND		5.0	µg/L	1	07/31/18 03:28 PM
2-Hexanone	ND		5.0	µg/L	1	07/31/18 03:28 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	07/31/18 03:28 PM
Acetone	ND		10	µg/L	1	07/31/18 03:28 PM
Benzene	ND		1.0	µg/L	1	07/31/18 03:28 PM
Bromodichloromethane	ND		1.0	µg/L	1	07/31/18 03:28 PM
Bromoform	ND		1.0	µg/L	1	07/31/18 03:28 PM
Bromomethane	ND		1.0	µg/L	1	07/31/18 03:28 PM
Carbon disulfide	ND		1.0	µg/L	1	07/31/18 03:28 PM
Carbon tetrachloride	ND		1.0	µg/L	1	07/31/18 03:28 PM
Chlorobenzene	ND		1.0	µg/L	1	07/31/18 03:28 PM
Chloroethane	ND		1.0	µg/L	1	07/31/18 03:28 PM
Chloroform	ND		1.0	µg/L	1	07/31/18 03:28 PM
Chloromethane	ND		1.0	µg/L	1	07/31/18 03:28 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	07/31/18 03:28 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	07/31/18 03:28 PM
Dibromochloromethane	ND		1.0	µg/L	1	07/31/18 03:28 PM
Ethylbenzene	ND		1.0	µg/L	1	07/31/18 03:28 PM
m,p-Xylene	ND		2.0	µg/L	1	07/31/18 03:28 PM
Methylene chloride	ND		5.0	µg/L	1	07/31/18 03:28 PM
o-Xylene	ND		1.0	µg/L	1	07/31/18 03:28 PM
Styrene	ND		1.0	µg/L	1	07/31/18 03:28 PM
Tetrachloroethene	ND		1.0	µg/L	1	07/31/18 03:28 PM
Toluene	ND		1.0	µg/L	1	07/31/18 03:28 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	07/31/18 03:28 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	07/31/18 03:28 PM
Trichloroethene	ND		1.0	µg/L	1	07/31/18 03:28 PM
Vinyl chloride	ND		1.0	µg/L	1	07/31/18 03:28 PM
Xylenes, Total	ND		3.0	µg/L	1	07/31/18 03:28 PM
Surr: 1,2-Dichloroethane-d4	104		75-120	%REC	1	07/31/18 03:28 PM
Surr: 4-Bromofluorobenzene	97.5		80-110	%REC	1	07/31/18 03:28 PM
Surr: Dibromofluoromethane	99.0		85-115	%REC	1	07/31/18 03:28 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 06-Aug-18

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040.15)

Work Order: 18071884

Sample ID: ATR-MW25(32.6)-G072318

Lab ID: 18071884-02

Collection Date: 07/23/18 12:45 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: Toluene-d8</i>	97.3		85-110	%REC	1	07/31/18 03:28 PM
ORGANIC CARBON, TOTAL			SW9060A			Analyst: JJG
Organic Carbon, Total	4.7		0.50	mg/L	1	07/31/18 04:57 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040.15)

Work Order: 18071884

Sample ID: ATR-MW15-G072318

Lab ID: 18071884-03

Collection Date: 07/23/18 02:35 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260C		Analyst: WH	
1,1,1-Trichloroethane	ND		1.0	µg/L	1	08/01/18 07:51 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	08/01/18 07:51 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	08/01/18 07:51 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	08/01/18 07:51 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	08/01/18 07:51 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	08/01/18 07:51 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	08/01/18 07:51 PM
2-Butanone	130		25	µg/L	5	07/31/18 03:55 PM
2-Hexanone	ND		5.0	µg/L	1	08/01/18 07:51 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	08/01/18 07:51 PM
Acetone	12		10	µg/L	1	08/01/18 07:51 PM
Benzene	ND		1.0	µg/L	1	08/01/18 07:51 PM
Bromodichloromethane	ND		1.0	µg/L	1	08/01/18 07:51 PM
Bromoform	ND		1.0	µg/L	1	08/01/18 07:51 PM
Bromomethane	ND		1.0	µg/L	1	08/01/18 07:51 PM
Carbon disulfide	ND		1.0	µg/L	1	08/01/18 07:51 PM
Carbon tetrachloride	ND		1.0	µg/L	1	08/01/18 07:51 PM
Chlorobenzene	ND		1.0	µg/L	1	08/01/18 07:51 PM
Chloroethane	ND		1.0	µg/L	1	08/01/18 07:51 PM
Chloroform	ND		1.0	µg/L	1	08/01/18 07:51 PM
Chloromethane	ND		1.0	µg/L	1	08/01/18 07:51 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	08/01/18 07:51 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	08/01/18 07:51 PM
Dibromochloromethane	ND		1.0	µg/L	1	08/01/18 07:51 PM
Ethylbenzene	ND		1.0	µg/L	1	08/01/18 07:51 PM
m,p-Xylene	ND		2.0	µg/L	1	08/01/18 07:51 PM
Methylene chloride	ND		5.0	µg/L	1	08/01/18 07:51 PM
o-Xylene	ND		1.0	µg/L	1	08/01/18 07:51 PM
Styrene	ND		1.0	µg/L	1	08/01/18 07:51 PM
Tetrachloroethene	ND		1.0	µg/L	1	08/01/18 07:51 PM
Toluene	ND		1.0	µg/L	1	08/01/18 07:51 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	08/01/18 07:51 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	08/01/18 07:51 PM
Trichloroethene	ND		1.0	µg/L	1	08/01/18 07:51 PM
Vinyl chloride	ND		1.0	µg/L	1	08/01/18 07:51 PM
Xylenes, Total	ND		3.0	µg/L	1	08/01/18 07:51 PM
Surr: 1,2-Dichloroethane-d4	105		75-120	%REC	5	07/31/18 03:55 PM
Surr: 1,2-Dichloroethane-d4	95.6		75-120	%REC	1	08/01/18 07:51 PM
Surr: 4-Bromofluorobenzene	97.4		80-110	%REC	5	07/31/18 03:55 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 06-Aug-18

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040.15)

Work Order: 18071884

Sample ID: ATR-MW15-G072318

Lab ID: 18071884-03

Collection Date: 07/23/18 02:35 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: 4-Bromofluorobenzene	96.7		80-110	%REC	1	08/01/18 07:51 PM
Surr: Dibromofluoromethane	98.8		85-115	%REC	5	07/31/18 03:55 PM
Surr: Dibromofluoromethane	99.9		85-115	%REC	1	08/01/18 07:51 PM
Surr: Toluene-d8	98.0		85-110	%REC	1	08/01/18 07:51 PM
Surr: Toluene-d8	96.6		85-110	%REC	5	07/31/18 03:55 PM
ORGANIC CARBON, TOTAL			SW9060A			Analyst: JJG
Organic Carbon, Total	280		50	mg/L	100	07/30/18 03:41 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040.15)

Work Order: 18071884

Sample ID: ATR-MW15-G072318-EB

Lab ID: 18071884-04

Collection Date: 07/23/18 03:00 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260C			Analyst: LSY
1,1,1-Trichloroethane	ND		1.0	µg/L	1	07/31/18 04:11 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	07/31/18 04:11 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	07/31/18 04:11 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	07/31/18 04:11 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	07/31/18 04:11 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	07/31/18 04:11 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	07/31/18 04:11 PM
2-Butanone	ND		5.0	µg/L	1	07/31/18 04:11 PM
2-Hexanone	ND		5.0	µg/L	1	07/31/18 04:11 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	07/31/18 04:11 PM
Acetone	ND		10	µg/L	1	07/31/18 04:11 PM
Benzene	ND		1.0	µg/L	1	07/31/18 04:11 PM
Bromodichloromethane	ND		1.0	µg/L	1	07/31/18 04:11 PM
Bromoform	ND		1.0	µg/L	1	07/31/18 04:11 PM
Bromomethane	ND		1.0	µg/L	1	07/31/18 04:11 PM
Carbon disulfide	ND		1.0	µg/L	1	07/31/18 04:11 PM
Carbon tetrachloride	ND		1.0	µg/L	1	07/31/18 04:11 PM
Chlorobenzene	ND		1.0	µg/L	1	07/31/18 04:11 PM
Chloroethane	ND		1.0	µg/L	1	07/31/18 04:11 PM
Chloroform	ND		1.0	µg/L	1	07/31/18 04:11 PM
Chloromethane	ND		1.0	µg/L	1	07/31/18 04:11 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	07/31/18 04:11 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	07/31/18 04:11 PM
Dibromochloromethane	ND		1.0	µg/L	1	07/31/18 04:11 PM
Ethylbenzene	ND		1.0	µg/L	1	07/31/18 04:11 PM
m,p-Xylene	ND		2.0	µg/L	1	07/31/18 04:11 PM
Methylene chloride	ND		5.0	µg/L	1	07/31/18 04:11 PM
o-Xylene	ND		1.0	µg/L	1	07/31/18 04:11 PM
Styrene	ND		1.0	µg/L	1	07/31/18 04:11 PM
Tetrachloroethene	ND		1.0	µg/L	1	07/31/18 04:11 PM
Toluene	ND		1.0	µg/L	1	07/31/18 04:11 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	07/31/18 04:11 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	07/31/18 04:11 PM
Trichloroethene	ND		1.0	µg/L	1	07/31/18 04:11 PM
Vinyl chloride	ND		1.0	µg/L	1	07/31/18 04:11 PM
Xylenes, Total	ND		3.0	µg/L	1	07/31/18 04:11 PM
Surr: 1,2-Dichloroethane-d4	103		75-120	%REC	1	07/31/18 04:11 PM
Surr: 4-Bromofluorobenzene	95.5		80-110	%REC	1	07/31/18 04:11 PM
Surr: Dibromofluoromethane	100		85-115	%REC	1	07/31/18 04:11 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 06-Aug-18

Client: Wood Environment & Infrastructure Solutions, Inc.**Project:** TFS Rochester (3359-15-1040.15)**Work Order:** 18071884**Sample ID:** ATR-MW15-G072318-EB**Lab ID:** 18071884-04**Collection Date:** 07/23/18 03:00 PM**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: Toluene-d8</i>	97.8		85-110	%REC	1	07/31/18 04:11 PM
ORGANIC CARBON, TOTAL			SW9060A			Analyst: JJG
Organic Carbon, Total	0.52		0.50	mg/L	1	07/30/18 03:41 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040.15)

Work Order: 18071884

Sample ID: ATR-OW5(44)-G072318

Lab ID: 18071884-05

Collection Date: 07/23/18 02:30 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260C		Analyst: WH	
1,1,1-Trichloroethane	ND		1.0	µg/L	1	08/01/18 04:20 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	08/01/18 04:20 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	08/01/18 04:20 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	08/01/18 04:20 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	08/01/18 04:20 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	08/01/18 04:20 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	08/01/18 04:20 PM
2-Butanone	12		5.0	µg/L	1	08/01/18 04:20 PM
2-Hexanone	ND		5.0	µg/L	1	08/01/18 04:20 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	08/01/18 04:20 PM
Acetone	ND		10	µg/L	1	08/01/18 04:20 PM
Benzene	ND		1.0	µg/L	1	08/01/18 04:20 PM
Bromodichloromethane	ND		1.0	µg/L	1	08/01/18 04:20 PM
Bromoform	ND		1.0	µg/L	1	08/01/18 04:20 PM
Bromomethane	ND		1.0	µg/L	1	08/01/18 04:20 PM
Carbon disulfide	ND		1.0	µg/L	1	08/01/18 04:20 PM
Carbon tetrachloride	ND		1.0	µg/L	1	08/01/18 04:20 PM
Chlorobenzene	ND		1.0	µg/L	1	08/01/18 04:20 PM
Chloroethane	ND		1.0	µg/L	1	08/01/18 04:20 PM
Chloroform	ND		1.0	µg/L	1	08/01/18 04:20 PM
Chloromethane	ND		1.0	µg/L	1	08/01/18 04:20 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	08/01/18 04:20 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	08/01/18 04:20 PM
Dibromochloromethane	ND		1.0	µg/L	1	08/01/18 04:20 PM
Ethylbenzene	ND		1.0	µg/L	1	08/01/18 04:20 PM
m,p-Xylene	ND		2.0	µg/L	1	08/01/18 04:20 PM
Methylene chloride	ND		5.0	µg/L	1	08/01/18 04:20 PM
o-Xylene	ND		1.0	µg/L	1	08/01/18 04:20 PM
Styrene	ND		1.0	µg/L	1	08/01/18 04:20 PM
Tetrachloroethene	ND		1.0	µg/L	1	08/01/18 04:20 PM
Toluene	ND		1.0	µg/L	1	08/01/18 04:20 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	08/01/18 04:20 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	08/01/18 04:20 PM
Trichloroethene	ND		1.0	µg/L	1	08/01/18 04:20 PM
Vinyl chloride	ND		1.0	µg/L	1	08/01/18 04:20 PM
Xylenes, Total	ND		3.0	µg/L	1	08/01/18 04:20 PM
Surr: 1,2-Dichloroethane-d4	96.5		75-120	%REC	1	08/01/18 04:20 PM
Surr: 4-Bromofluorobenzene	95.1		80-110	%REC	1	08/01/18 04:20 PM
Surr: Dibromofluoromethane	101		85-115	%REC	1	08/01/18 04:20 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 06-Aug-18

Client: Wood Environment & Infrastructure Solutions, Inc.**Project:** TFS Rochester (3359-15-1040.15)**Work Order:** 18071884**Sample ID:** ATR-OW5(44)-G072318**Lab ID:** 18071884-05**Collection Date:** 07/23/18 02:30 PM**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: Toluene-d8</i>	98.4		85-110	%REC	1	08/01/18 04:20 PM
ORGANIC CARBON, TOTAL			SW9060A			Analyst: JJG
Organic Carbon, Total	17		2.0	mg/L	4	07/31/18 04:57 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040.15)

Work Order: 18071884

Sample ID: ATR-OW5(35)-G072318

Lab ID: 18071884-06

Collection Date: 07/23/18 01:10 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260C			Analyst: LSY
1,1,1-Trichloroethane	ND		1.0	µg/L	1	07/31/18 04:44 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	07/31/18 04:44 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	07/31/18 04:44 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	07/31/18 04:44 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	07/31/18 04:44 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	07/31/18 04:44 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	07/31/18 04:44 PM
2-Butanone	ND		5.0	µg/L	1	07/31/18 04:44 PM
2-Hexanone	ND		5.0	µg/L	1	07/31/18 04:44 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	07/31/18 04:44 PM
Acetone	ND		10	µg/L	1	07/31/18 04:44 PM
Benzene	ND		1.0	µg/L	1	07/31/18 04:44 PM
Bromodichloromethane	ND		1.0	µg/L	1	07/31/18 04:44 PM
Bromoform	ND		1.0	µg/L	1	07/31/18 04:44 PM
Bromomethane	ND		1.0	µg/L	1	07/31/18 04:44 PM
Carbon disulfide	ND		1.0	µg/L	1	07/31/18 04:44 PM
Carbon tetrachloride	ND		1.0	µg/L	1	07/31/18 04:44 PM
Chlorobenzene	ND		1.0	µg/L	1	07/31/18 04:44 PM
Chloroethane	ND		1.0	µg/L	1	07/31/18 04:44 PM
Chloroform	ND		1.0	µg/L	1	07/31/18 04:44 PM
Chloromethane	ND		1.0	µg/L	1	07/31/18 04:44 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	07/31/18 04:44 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	07/31/18 04:44 PM
Dibromochloromethane	ND		1.0	µg/L	1	07/31/18 04:44 PM
Ethylbenzene	ND		1.0	µg/L	1	07/31/18 04:44 PM
m,p-Xylene	ND		2.0	µg/L	1	07/31/18 04:44 PM
Methylene chloride	ND		5.0	µg/L	1	07/31/18 04:44 PM
o-Xylene	ND		1.0	µg/L	1	07/31/18 04:44 PM
Styrene	ND		1.0	µg/L	1	07/31/18 04:44 PM
Tetrachloroethene	ND		1.0	µg/L	1	07/31/18 04:44 PM
Toluene	ND		1.0	µg/L	1	07/31/18 04:44 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	07/31/18 04:44 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	07/31/18 04:44 PM
Trichloroethene	ND		1.0	µg/L	1	07/31/18 04:44 PM
Vinyl chloride	ND		1.0	µg/L	1	07/31/18 04:44 PM
Xylenes, Total	ND		3.0	µg/L	1	07/31/18 04:44 PM
Surr: 1,2-Dichloroethane-d4	105		75-120	%REC	1	07/31/18 04:44 PM
Surr: 4-Bromofluorobenzene	96.7		80-110	%REC	1	07/31/18 04:44 PM
Surr: Dibromofluoromethane	98.8		85-115	%REC	1	07/31/18 04:44 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 06-Aug-18

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.15)
Sample ID: ATR-OW5(35)-G072318
Collection Date: 07/23/18 01:10 PM

Work Order: 18071884
Lab ID: 18071884-06
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: Toluene-d8</i>	97.2		85-110	%REC	1	07/31/18 04:44 PM
ORGANIC CARBON, TOTAL			SW9060A			Analyst: JJG
Organic Carbon, Total	4.4		0.50	mg/L	1	07/31/18 04:57 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040.15)

Work Order: 18071884

Sample ID: ATR-OW5(16)-G072318

Lab ID: 18071884-07

Collection Date: 07/23/18 11:45 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260C		Analyst: LSY	
1,1,1-Trichloroethane	ND		1.0	µg/L	1	07/31/18 05:01 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	07/31/18 05:01 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	07/31/18 05:01 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	07/31/18 05:01 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	07/31/18 05:01 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	07/31/18 05:01 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	07/31/18 05:01 PM
2-Butanone	ND		5.0	µg/L	1	07/31/18 05:01 PM
2-Hexanone	ND		5.0	µg/L	1	07/31/18 05:01 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	07/31/18 05:01 PM
Acetone	ND		10	µg/L	1	07/31/18 05:01 PM
Benzene	ND		1.0	µg/L	1	07/31/18 05:01 PM
Bromodichloromethane	ND		1.0	µg/L	1	07/31/18 05:01 PM
Bromoform	ND		1.0	µg/L	1	07/31/18 05:01 PM
Bromomethane	ND		1.0	µg/L	1	07/31/18 05:01 PM
Carbon disulfide	ND		1.0	µg/L	1	07/31/18 05:01 PM
Carbon tetrachloride	ND		1.0	µg/L	1	07/31/18 05:01 PM
Chlorobenzene	ND		1.0	µg/L	1	07/31/18 05:01 PM
Chloroethane	ND		1.0	µg/L	1	07/31/18 05:01 PM
Chloroform	ND		1.0	µg/L	1	07/31/18 05:01 PM
Chloromethane	ND		1.0	µg/L	1	07/31/18 05:01 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	07/31/18 05:01 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	07/31/18 05:01 PM
Dibromochloromethane	ND		1.0	µg/L	1	07/31/18 05:01 PM
Ethylbenzene	ND		1.0	µg/L	1	07/31/18 05:01 PM
m,p-Xylene	ND		2.0	µg/L	1	07/31/18 05:01 PM
Methylene chloride	ND		5.0	µg/L	1	07/31/18 05:01 PM
o-Xylene	ND		1.0	µg/L	1	07/31/18 05:01 PM
Styrene	ND		1.0	µg/L	1	07/31/18 05:01 PM
Tetrachloroethene	ND		1.0	µg/L	1	07/31/18 05:01 PM
Toluene	ND		1.0	µg/L	1	07/31/18 05:01 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	07/31/18 05:01 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	07/31/18 05:01 PM
Trichloroethene	ND		1.0	µg/L	1	07/31/18 05:01 PM
Vinyl chloride	ND		1.0	µg/L	1	07/31/18 05:01 PM
Xylenes, Total	ND		3.0	µg/L	1	07/31/18 05:01 PM
Surr: 1,2-Dichloroethane-d4	104		75-120	%REC	1	07/31/18 05:01 PM
Surr: 4-Bromofluorobenzene	97.1		80-110	%REC	1	07/31/18 05:01 PM
Surr: Dibromofluoromethane	98.1		85-115	%REC	1	07/31/18 05:01 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 06-Aug-18

Client: Wood Environment & Infrastructure Solutions, Inc.**Project:** TFS Rochester (3359-15-1040.15)**Work Order:** 18071884**Sample ID:** ATR-OW5(16)-G072318**Lab ID:** 18071884-07**Collection Date:** 07/23/18 11:45 AM**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: Toluene-d8</i>	98.2		85-110	%REC	1	07/31/18 05:01 PM
ORGANIC CARBON, TOTAL			SW9060A			Analyst: JJG
Organic Carbon, Total	3.8		0.50	mg/L	1	07/31/18 04:57 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.15)
Sample ID: ATR-MW24(55.4)-G072318-1410
Collection Date: 07/23/18 02:10 PM

Work Order: 18071884
Lab ID: 18071884-08
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260C		Analyst: WH	
1,1,1-Trichloroethane	ND		1.0	µg/L	1	08/01/18 04:36 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	08/01/18 04:36 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	08/01/18 04:36 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	08/01/18 04:36 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	08/01/18 04:36 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	08/01/18 04:36 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	08/01/18 04:36 PM
2-Butanone	ND		5.0	µg/L	1	08/01/18 04:36 PM
2-Hexanone	ND		5.0	µg/L	1	08/01/18 04:36 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	08/01/18 04:36 PM
Acetone	ND		10	µg/L	1	08/01/18 04:36 PM
Benzene	ND		1.0	µg/L	1	08/01/18 04:36 PM
Bromodichloromethane	ND		1.0	µg/L	1	08/01/18 04:36 PM
Bromoform	ND		1.0	µg/L	1	08/01/18 04:36 PM
Bromomethane	ND		1.0	µg/L	1	08/01/18 04:36 PM
Carbon disulfide	ND		1.0	µg/L	1	08/01/18 04:36 PM
Carbon tetrachloride	ND		1.0	µg/L	1	08/01/18 04:36 PM
Chlorobenzene	ND		1.0	µg/L	1	08/01/18 04:36 PM
Chloroethane	ND		1.0	µg/L	1	08/01/18 04:36 PM
Chloroform	ND		1.0	µg/L	1	08/01/18 04:36 PM
Chloromethane	ND		1.0	µg/L	1	08/01/18 04:36 PM
cis-1,2-Dichloroethene	8.6		1.0	µg/L	1	08/01/18 04:36 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	08/01/18 04:36 PM
Dibromochloromethane	ND		1.0	µg/L	1	08/01/18 04:36 PM
Ethylbenzene	ND		1.0	µg/L	1	08/01/18 04:36 PM
m,p-Xylene	ND		2.0	µg/L	1	08/01/18 04:36 PM
Methylene chloride	ND		5.0	µg/L	1	08/01/18 04:36 PM
o-Xylene	ND		1.0	µg/L	1	08/01/18 04:36 PM
Styrene	ND		1.0	µg/L	1	08/01/18 04:36 PM
Tetrachloroethene	ND		1.0	µg/L	1	08/01/18 04:36 PM
Toluene	ND		1.0	µg/L	1	08/01/18 04:36 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	08/01/18 04:36 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	08/01/18 04:36 PM
Trichloroethene	ND		1.0	µg/L	1	08/01/18 04:36 PM
Vinyl chloride	26		1.0	µg/L	1	08/01/18 04:36 PM
Xylenes, Total	ND		3.0	µg/L	1	08/01/18 04:36 PM
Surr: 1,2-Dichloroethane-d4	96.6		75-120	%REC	1	08/01/18 04:36 PM
Surr: 4-Bromofluorobenzene	96.9		80-110	%REC	1	08/01/18 04:36 PM
Surr: Dibromofluoromethane	101		85-115	%REC	1	08/01/18 04:36 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 06-Aug-18

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.15)
Sample ID: ATR-MW24(55.4)-G072318-1410
Collection Date: 07/23/18 02:10 PM

Work Order: 18071884
Lab ID: 18071884-08
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: Toluene-d8</i>	101		85-110	%REC	1	08/01/18 04:36 PM
ORGANIC CARBON, TOTAL			SW9060A			Analyst: JJG
Organic Carbon, Total	2.7		0.50	mg/L	1	07/31/18 04:57 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040.15)

Work Order: 18071884

Sample ID: ATR-MW24(55.4)-G072318-1410-R

Lab ID: 18071884-09

Collection Date: 07/23/18 02:10 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260C		Analyst: WH	
1,1,1-Trichloroethane	ND		1.0	µg/L	1	08/01/18 04:51 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	08/01/18 04:51 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	08/01/18 04:51 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	08/01/18 04:51 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	08/01/18 04:51 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	08/01/18 04:51 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	08/01/18 04:51 PM
2-Butanone	ND		5.0	µg/L	1	08/01/18 04:51 PM
2-Hexanone	ND		5.0	µg/L	1	08/01/18 04:51 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	08/01/18 04:51 PM
Acetone	ND		10	µg/L	1	08/01/18 04:51 PM
Benzene	ND		1.0	µg/L	1	08/01/18 04:51 PM
Bromodichloromethane	ND		1.0	µg/L	1	08/01/18 04:51 PM
Bromoform	ND		1.0	µg/L	1	08/01/18 04:51 PM
Bromomethane	ND		1.0	µg/L	1	08/01/18 04:51 PM
Carbon disulfide	ND		1.0	µg/L	1	08/01/18 04:51 PM
Carbon tetrachloride	ND		1.0	µg/L	1	08/01/18 04:51 PM
Chlorobenzene	ND		1.0	µg/L	1	08/01/18 04:51 PM
Chloroethane	ND		1.0	µg/L	1	08/01/18 04:51 PM
Chloroform	ND		1.0	µg/L	1	08/01/18 04:51 PM
Chloromethane	ND		1.0	µg/L	1	08/01/18 04:51 PM
cis-1,2-Dichloroethene	10		1.0	µg/L	1	08/01/18 04:51 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	08/01/18 04:51 PM
Dibromochloromethane	ND		1.0	µg/L	1	08/01/18 04:51 PM
Ethylbenzene	ND		1.0	µg/L	1	08/01/18 04:51 PM
m,p-Xylene	ND		2.0	µg/L	1	08/01/18 04:51 PM
Methylene chloride	ND		5.0	µg/L	1	08/01/18 04:51 PM
o-Xylene	ND		1.0	µg/L	1	08/01/18 04:51 PM
Styrene	ND		1.0	µg/L	1	08/01/18 04:51 PM
Tetrachloroethene	ND		1.0	µg/L	1	08/01/18 04:51 PM
Toluene	ND		1.0	µg/L	1	08/01/18 04:51 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	08/01/18 04:51 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	08/01/18 04:51 PM
Trichloroethene	ND		1.0	µg/L	1	08/01/18 04:51 PM
Vinyl chloride	29		1.0	µg/L	1	08/01/18 04:51 PM
Xylenes, Total	ND		3.0	µg/L	1	08/01/18 04:51 PM
Surr: 1,2-Dichloroethane-d4	98.3		75-120	%REC	1	08/01/18 04:51 PM
Surr: 4-Bromofluorobenzene	95.8		80-110	%REC	1	08/01/18 04:51 PM
Surr: Dibromofluoromethane	102		85-115	%REC	1	08/01/18 04:51 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 06-Aug-18

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040.15)

Work Order: 18071884

Sample ID: ATR-MW24(55.4)-G072318-1410-R

Lab ID: 18071884-09

Collection Date: 07/23/18 02:10 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: Toluene-d8</i>	97.5		85-110	%REC	1	08/01/18 04:51 PM
ORGANIC CARBON, TOTAL			SW9060A			Analyst: JJG
Organic Carbon, Total	2.7		0.50	mg/L	1	07/31/18 04:57 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040.15)

Work Order: 18071884

Sample ID: ATR-MW24(24.9)-G072318-1315

Lab ID: 18071884-10

Collection Date: 07/23/18 01:15 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260C			Analyst: LSY
1,1,1-Trichloroethane	ND		1.0	µg/L	1	07/31/18 05:51 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	07/31/18 05:51 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	07/31/18 05:51 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	07/31/18 05:51 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	07/31/18 05:51 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	07/31/18 05:51 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	07/31/18 05:51 PM
2-Butanone	ND		5.0	µg/L	1	07/31/18 05:51 PM
2-Hexanone	ND		5.0	µg/L	1	07/31/18 05:51 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	07/31/18 05:51 PM
Acetone	ND		10	µg/L	1	07/31/18 05:51 PM
Benzene	ND		1.0	µg/L	1	07/31/18 05:51 PM
Bromodichloromethane	ND		1.0	µg/L	1	07/31/18 05:51 PM
Bromoform	ND		1.0	µg/L	1	07/31/18 05:51 PM
Bromomethane	ND		1.0	µg/L	1	07/31/18 05:51 PM
Carbon disulfide	ND		1.0	µg/L	1	07/31/18 05:51 PM
Carbon tetrachloride	ND		1.0	µg/L	1	07/31/18 05:51 PM
Chlorobenzene	ND		1.0	µg/L	1	07/31/18 05:51 PM
Chloroethane	ND		1.0	µg/L	1	07/31/18 05:51 PM
Chloroform	ND		1.0	µg/L	1	07/31/18 05:51 PM
Chloromethane	ND		1.0	µg/L	1	07/31/18 05:51 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	07/31/18 05:51 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	07/31/18 05:51 PM
Dibromochloromethane	ND		1.0	µg/L	1	07/31/18 05:51 PM
Ethylbenzene	ND		1.0	µg/L	1	07/31/18 05:51 PM
m,p-Xylene	ND		2.0	µg/L	1	07/31/18 05:51 PM
Methylene chloride	ND		5.0	µg/L	1	07/31/18 05:51 PM
o-Xylene	ND		1.0	µg/L	1	07/31/18 05:51 PM
Styrene	ND		1.0	µg/L	1	07/31/18 05:51 PM
Tetrachloroethene	ND		1.0	µg/L	1	07/31/18 05:51 PM
Toluene	ND		1.0	µg/L	1	07/31/18 05:51 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	07/31/18 05:51 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	07/31/18 05:51 PM
Trichloroethene	ND		1.0	µg/L	1	07/31/18 05:51 PM
Vinyl chloride	ND		1.0	µg/L	1	07/31/18 05:51 PM
Xylenes, Total	ND		3.0	µg/L	1	07/31/18 05:51 PM
Surr: 1,2-Dichloroethane-d4	106		75-120	%REC	1	07/31/18 05:51 PM
Surr: 4-Bromofluorobenzene	95.2		80-110	%REC	1	07/31/18 05:51 PM
Surr: Dibromofluoromethane	99.8		85-115	%REC	1	07/31/18 05:51 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 06-Aug-18

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.15)
Sample ID: ATR-MW24(24.9)-G072318-1315
Collection Date: 07/23/18 01:15 PM

Work Order: 18071884
Lab ID: 18071884-10
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: Toluene-d8</i>	97.0		85-110	%REC	1	07/31/18 05:51 PM
ORGANIC CARBON, TOTAL			SW9060A			Analyst: JJG
Organic Carbon, Total	2.0		0.50	mg/L	1	07/30/18 03:41 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040.15)

Work Order: 18071884

Sample ID: ATR-OW2(55)-G072318-1145

Lab ID: 18071884-11

Collection Date: 07/23/18 11:45 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260C		Analyst: WH	
1,1,1-Trichloroethane	ND		1.0	µg/L	1	08/01/18 05:06 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	08/01/18 05:06 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	08/01/18 05:06 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	08/01/18 05:06 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	08/01/18 05:06 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	08/01/18 05:06 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	08/01/18 05:06 PM
2-Butanone	ND		5.0	µg/L	1	08/01/18 05:06 PM
2-Hexanone	ND		5.0	µg/L	1	08/01/18 05:06 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	08/01/18 05:06 PM
Acetone	ND		10	µg/L	1	08/01/18 05:06 PM
Benzene	ND		1.0	µg/L	1	08/01/18 05:06 PM
Bromodichloromethane	ND		1.0	µg/L	1	08/01/18 05:06 PM
Bromoform	ND		1.0	µg/L	1	08/01/18 05:06 PM
Bromomethane	ND		1.0	µg/L	1	08/01/18 05:06 PM
Carbon disulfide	ND		1.0	µg/L	1	08/01/18 05:06 PM
Carbon tetrachloride	ND		1.0	µg/L	1	08/01/18 05:06 PM
Chlorobenzene	ND		1.0	µg/L	1	08/01/18 05:06 PM
Chloroethane	ND		1.0	µg/L	1	08/01/18 05:06 PM
Chloroform	ND		1.0	µg/L	1	08/01/18 05:06 PM
Chloromethane	ND		1.0	µg/L	1	08/01/18 05:06 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	08/01/18 05:06 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	08/01/18 05:06 PM
Dibromochloromethane	ND		1.0	µg/L	1	08/01/18 05:06 PM
Ethylbenzene	ND		1.0	µg/L	1	08/01/18 05:06 PM
m,p-Xylene	ND		2.0	µg/L	1	08/01/18 05:06 PM
Methylene chloride	ND		5.0	µg/L	1	08/01/18 05:06 PM
o-Xylene	ND		1.0	µg/L	1	08/01/18 05:06 PM
Styrene	ND		1.0	µg/L	1	08/01/18 05:06 PM
Tetrachloroethene	ND		1.0	µg/L	1	08/01/18 05:06 PM
Toluene	ND		1.0	µg/L	1	08/01/18 05:06 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	08/01/18 05:06 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	08/01/18 05:06 PM
Trichloroethene	ND		1.0	µg/L	1	08/01/18 05:06 PM
Vinyl chloride	ND		1.0	µg/L	1	08/01/18 05:06 PM
Xylenes, Total	ND		3.0	µg/L	1	08/01/18 05:06 PM
Surr: 1,2-Dichloroethane-d4	96.6		75-120	%REC	1	08/01/18 05:06 PM
Surr: 4-Bromofluorobenzene	95.8		80-110	%REC	1	08/01/18 05:06 PM
Surr: Dibromofluoromethane	101		85-115	%REC	1	08/01/18 05:06 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 06-Aug-18

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.15)
Sample ID: ATR-OW2(55)-G072318-1145
Collection Date: 07/23/18 11:45 AM

Work Order: 18071884
Lab ID: 18071884-11
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: Toluene-d8</i>	99.4		85-110	%REC	1	08/01/18 05:06 PM
ORGANIC CARBON, TOTAL			SW9060A			Analyst: JJG
Organic Carbon, Total	2.6		0.50	mg/L	1	07/31/18 04:57 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040.15)

Work Order: 18071884

Sample ID: ATR-OW2(33)-G072318-1610

Lab ID: 18071884-12

Collection Date: 07/23/18 04:10 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260C		Analyst: LSY	
1,1,1-Trichloroethane	ND		1.0	µg/L	1	07/31/18 06:24 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	07/31/18 06:24 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	07/31/18 06:24 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	07/31/18 06:24 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	07/31/18 06:24 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	07/31/18 06:24 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	07/31/18 06:24 PM
2-Butanone	ND		5.0	µg/L	1	07/31/18 06:24 PM
2-Hexanone	ND		5.0	µg/L	1	07/31/18 06:24 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	07/31/18 06:24 PM
Acetone	ND		10	µg/L	1	07/31/18 06:24 PM
Benzene	ND		1.0	µg/L	1	07/31/18 06:24 PM
Bromodichloromethane	ND		1.0	µg/L	1	07/31/18 06:24 PM
Bromoform	ND		1.0	µg/L	1	07/31/18 06:24 PM
Bromomethane	ND		1.0	µg/L	1	07/31/18 06:24 PM
Carbon disulfide	ND		1.0	µg/L	1	07/31/18 06:24 PM
Carbon tetrachloride	ND		1.0	µg/L	1	07/31/18 06:24 PM
Chlorobenzene	ND		1.0	µg/L	1	07/31/18 06:24 PM
Chloroethane	ND		1.0	µg/L	1	07/31/18 06:24 PM
Chloroform	ND		1.0	µg/L	1	07/31/18 06:24 PM
Chloromethane	ND		1.0	µg/L	1	07/31/18 06:24 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	07/31/18 06:24 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	07/31/18 06:24 PM
Dibromochloromethane	ND		1.0	µg/L	1	07/31/18 06:24 PM
Ethylbenzene	ND		1.0	µg/L	1	07/31/18 06:24 PM
m,p-Xylene	ND		2.0	µg/L	1	07/31/18 06:24 PM
Methylene chloride	ND		5.0	µg/L	1	07/31/18 06:24 PM
o-Xylene	ND		1.0	µg/L	1	07/31/18 06:24 PM
Styrene	ND		1.0	µg/L	1	07/31/18 06:24 PM
Tetrachloroethene	ND		1.0	µg/L	1	07/31/18 06:24 PM
Toluene	ND		1.0	µg/L	1	07/31/18 06:24 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	07/31/18 06:24 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	07/31/18 06:24 PM
Trichloroethene	ND		1.0	µg/L	1	07/31/18 06:24 PM
Vinyl chloride	ND		1.0	µg/L	1	07/31/18 06:24 PM
Xylenes, Total	ND		3.0	µg/L	1	07/31/18 06:24 PM
Surr: 1,2-Dichloroethane-d4	105		75-120	%REC	1	07/31/18 06:24 PM
Surr: 4-Bromofluorobenzene	96.4		80-110	%REC	1	07/31/18 06:24 PM
Surr: Dibromofluoromethane	100		85-115	%REC	1	07/31/18 06:24 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 06-Aug-18

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.15)
Sample ID: ATR-OW2(33)-G072318-1610
Collection Date: 07/23/18 04:10 PM

Work Order: 18071884
Lab ID: 18071884-12
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: Toluene-d8</i>	98.2		85-110	%REC	1	07/31/18 06:24 PM
ORGANIC CARBON, TOTAL			SW9060A			Analyst: JJG
Organic Carbon, Total	5.7		5.0	mg/L	10	07/30/18 03:41 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040.15)

Work Order: 18071884

Sample ID: ATR-OW4(35)-G072318

Lab ID: 18071884-13

Collection Date: 07/23/18 03:45 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260C		Analyst: WH	
1,1,1-Trichloroethane	ND		1.0	µg/L	1	08/01/18 05:21 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	08/01/18 05:21 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	08/01/18 05:21 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	08/01/18 05:21 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	08/01/18 05:21 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	08/01/18 05:21 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	08/01/18 05:21 PM
2-Butanone	17		5.0	µg/L	1	08/01/18 05:21 PM
2-Hexanone	ND		5.0	µg/L	1	08/01/18 05:21 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	08/01/18 05:21 PM
Acetone	ND		10	µg/L	1	08/01/18 05:21 PM
Benzene	ND		1.0	µg/L	1	08/01/18 05:21 PM
Bromodichloromethane	ND		1.0	µg/L	1	08/01/18 05:21 PM
Bromoform	ND		1.0	µg/L	1	08/01/18 05:21 PM
Bromomethane	ND		1.0	µg/L	1	08/01/18 05:21 PM
Carbon disulfide	ND		1.0	µg/L	1	08/01/18 05:21 PM
Carbon tetrachloride	ND		1.0	µg/L	1	08/01/18 05:21 PM
Chlorobenzene	ND		1.0	µg/L	1	08/01/18 05:21 PM
Chloroethane	ND		1.0	µg/L	1	08/01/18 05:21 PM
Chloroform	ND		1.0	µg/L	1	08/01/18 05:21 PM
Chloromethane	ND		1.0	µg/L	1	08/01/18 05:21 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	08/01/18 05:21 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	08/01/18 05:21 PM
Dibromochloromethane	ND		1.0	µg/L	1	08/01/18 05:21 PM
Ethylbenzene	ND		1.0	µg/L	1	08/01/18 05:21 PM
m,p-Xylene	ND		2.0	µg/L	1	08/01/18 05:21 PM
Methylene chloride	ND		5.0	µg/L	1	08/01/18 05:21 PM
o-Xylene	ND		1.0	µg/L	1	08/01/18 05:21 PM
Styrene	ND		1.0	µg/L	1	08/01/18 05:21 PM
Tetrachloroethene	ND		1.0	µg/L	1	08/01/18 05:21 PM
Toluene	1.4		1.0	µg/L	1	08/01/18 05:21 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	08/01/18 05:21 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	08/01/18 05:21 PM
Trichloroethene	ND		1.0	µg/L	1	08/01/18 05:21 PM
Vinyl chloride	ND		1.0	µg/L	1	08/01/18 05:21 PM
Xylenes, Total	ND		3.0	µg/L	1	08/01/18 05:21 PM
Surr: 1,2-Dichloroethane-d4	98.4		75-120	%REC	1	08/01/18 05:21 PM
Surr: 4-Bromofluorobenzene	95.2		80-110	%REC	1	08/01/18 05:21 PM
Surr: Dibromofluoromethane	101		85-115	%REC	1	08/01/18 05:21 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 06-Aug-18

Client: Wood Environment & Infrastructure Solutions, Inc.**Project:** TFS Rochester (3359-15-1040.15)**Work Order:** 18071884**Sample ID:** ATR-OW4(35)-G072318**Lab ID:** 18071884-13**Collection Date:** 07/23/18 03:45 PM**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: Toluene-d8</i>	96.6		85-110	%REC	1	08/01/18 05:21 PM
ORGANIC CARBON, TOTAL			SW9060A			Analyst: JJG
Organic Carbon, Total	50		5.0	mg/L	10	07/31/18 04:57 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.15)
Sample ID: ATR-MW59(29)-G072418
Collection Date: 07/24/18 04:35 PM

Work Order: 18071884
Lab ID: 18071884-14
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260C			Analyst: LSY
1,1,1-Trichloroethane	ND		1.0	µg/L	1	07/31/18 06:57 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	07/31/18 06:57 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	07/31/18 06:57 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	07/31/18 06:57 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	07/31/18 06:57 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	07/31/18 06:57 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	07/31/18 06:57 PM
2-Butanone	ND		5.0	µg/L	1	07/31/18 06:57 PM
2-Hexanone	ND		5.0	µg/L	1	07/31/18 06:57 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	07/31/18 06:57 PM
Acetone	ND		10	µg/L	1	07/31/18 06:57 PM
Benzene	ND		1.0	µg/L	1	07/31/18 06:57 PM
Bromodichloromethane	ND		1.0	µg/L	1	07/31/18 06:57 PM
Bromoform	ND		1.0	µg/L	1	07/31/18 06:57 PM
Bromomethane	ND		1.0	µg/L	1	07/31/18 06:57 PM
Carbon disulfide	ND		1.0	µg/L	1	07/31/18 06:57 PM
Carbon tetrachloride	ND		1.0	µg/L	1	07/31/18 06:57 PM
Chlorobenzene	ND		1.0	µg/L	1	07/31/18 06:57 PM
Chloroethane	2.5		1.0	µg/L	1	07/31/18 06:57 PM
Chloroform	ND		1.0	µg/L	1	07/31/18 06:57 PM
Chloromethane	ND		1.0	µg/L	1	07/31/18 06:57 PM
cis-1,2-Dichloroethene	1.7		1.0	µg/L	1	07/31/18 06:57 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	07/31/18 06:57 PM
Dibromochloromethane	ND		1.0	µg/L	1	07/31/18 06:57 PM
Ethylbenzene	2.4		1.0	µg/L	1	07/31/18 06:57 PM
m,p-Xylene	4.4		2.0	µg/L	1	07/31/18 06:57 PM
Methylene chloride	ND		5.0	µg/L	1	07/31/18 06:57 PM
o-Xylene	2.4		1.0	µg/L	1	07/31/18 06:57 PM
Styrene	ND		1.0	µg/L	1	07/31/18 06:57 PM
Tetrachloroethene	ND		1.0	µg/L	1	07/31/18 06:57 PM
Toluene	11		1.0	µg/L	1	07/31/18 06:57 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	07/31/18 06:57 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	07/31/18 06:57 PM
Trichloroethene	ND		1.0	µg/L	1	07/31/18 06:57 PM
Vinyl chloride	5.7		1.0	µg/L	1	07/31/18 06:57 PM
Xylenes, Total	6.8		3.0	µg/L	1	07/31/18 06:57 PM
Surr: 1,2-Dichloroethane-d4	107		75-120	%REC	1	07/31/18 06:57 PM
Surr: 4-Bromofluorobenzene	99.0		80-110	%REC	1	07/31/18 06:57 PM
Surr: Dibromofluoromethane	101		85-115	%REC	1	07/31/18 06:57 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 06-Aug-18

Client: Wood Environment & Infrastructure Solutions, Inc.**Project:** TFS Rochester (3359-15-1040.15)**Work Order:** 18071884**Sample ID:** ATR-MW59(29)-G072418**Lab ID:** 18071884-14**Collection Date:** 07/24/18 04:35 PM**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: Toluene-d8</i>	98.8		85-110	%REC	1	07/31/18 06:57 PM
ORGANIC CARBON, TOTAL			SW9060A			Analyst: JJG
Organic Carbon, Total	11		10	mg/L	20	07/30/18 03:41 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.15)
Sample ID: ATR-MW59(29)-G072418-R
Collection Date: 07/24/18 04:35 PM

Work Order: 18071884
Lab ID: 18071884-15
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260C		Analyst: LSY	
1,1,1-Trichloroethane	ND		1.0	µg/L	1	07/31/18 07:14 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	07/31/18 07:14 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	07/31/18 07:14 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	07/31/18 07:14 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	07/31/18 07:14 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	07/31/18 07:14 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	07/31/18 07:14 PM
2-Butanone	ND		5.0	µg/L	1	07/31/18 07:14 PM
2-Hexanone	ND		5.0	µg/L	1	07/31/18 07:14 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	07/31/18 07:14 PM
Acetone	ND		10	µg/L	1	07/31/18 07:14 PM
Benzene	ND		1.0	µg/L	1	07/31/18 07:14 PM
Bromodichloromethane	ND		1.0	µg/L	1	07/31/18 07:14 PM
Bromoform	ND		1.0	µg/L	1	07/31/18 07:14 PM
Bromomethane	ND		1.0	µg/L	1	07/31/18 07:14 PM
Carbon disulfide	ND		1.0	µg/L	1	07/31/18 07:14 PM
Carbon tetrachloride	ND		1.0	µg/L	1	07/31/18 07:14 PM
Chlorobenzene	ND		1.0	µg/L	1	07/31/18 07:14 PM
Chloroethane	2.7		1.0	µg/L	1	07/31/18 07:14 PM
Chloroform	ND		1.0	µg/L	1	07/31/18 07:14 PM
Chloromethane	ND		1.0	µg/L	1	07/31/18 07:14 PM
cis-1,2-Dichloroethene	1.6		1.0	µg/L	1	07/31/18 07:14 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	07/31/18 07:14 PM
Dibromochloromethane	ND		1.0	µg/L	1	07/31/18 07:14 PM
Ethylbenzene	2.2		1.0	µg/L	1	07/31/18 07:14 PM
m,p-Xylene	3.8		2.0	µg/L	1	07/31/18 07:14 PM
Methylene chloride	ND		5.0	µg/L	1	07/31/18 07:14 PM
o-Xylene	2.1		1.0	µg/L	1	07/31/18 07:14 PM
Styrene	ND		1.0	µg/L	1	07/31/18 07:14 PM
Tetrachloroethene	ND		1.0	µg/L	1	07/31/18 07:14 PM
Toluene	10		1.0	µg/L	1	07/31/18 07:14 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	07/31/18 07:14 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	07/31/18 07:14 PM
Trichloroethene	ND		1.0	µg/L	1	07/31/18 07:14 PM
Vinyl chloride	ND		1.0	µg/L	1	07/31/18 07:14 PM
Xylenes, Total	5.8		3.0	µg/L	1	07/31/18 07:14 PM
Surr: 1,2-Dichloroethane-d4	105		75-120	%REC	1	07/31/18 07:14 PM
Surr: 4-Bromofluorobenzene	98.8		80-110	%REC	1	07/31/18 07:14 PM
Surr: Dibromofluoromethane	101		85-115	%REC	1	07/31/18 07:14 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 06-Aug-18

Client: Wood Environment & Infrastructure Solutions, Inc.**Project:** TFS Rochester (3359-15-1040.15)**Work Order:** 18071884**Sample ID:** ATR-MW59(29)-G072418-R**Lab ID:** 18071884-15**Collection Date:** 07/24/18 04:35 PM**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: Toluene-d8</i>	97.7		85-110	%REC	1	07/31/18 07:14 PM
ORGANIC CARBON, TOTAL			SW9060A			Analyst: JJG
Organic Carbon, Total	12		10	mg/L	20	07/30/18 03:41 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.15)
Sample ID: ATR-MW81(27)-G072418
Collection Date: 07/24/18 03:30 PM

Work Order: 18071884
Lab ID: 18071884-16
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260C		Analyst: WH	
1,1,1-Trichloroethane	ND		1.0	µg/L	1	08/01/18 06:36 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	08/01/18 06:36 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	08/01/18 06:36 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	08/01/18 06:36 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	08/01/18 06:36 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	08/01/18 06:36 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	08/01/18 06:36 PM
2-Butanone	ND		5.0	µg/L	1	08/01/18 06:36 PM
2-Hexanone	ND		5.0	µg/L	1	08/01/18 06:36 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	08/01/18 06:36 PM
Acetone	ND		10	µg/L	1	08/01/18 06:36 PM
Benzene	ND		1.0	µg/L	1	08/01/18 06:36 PM
Bromodichloromethane	ND		1.0	µg/L	1	08/01/18 06:36 PM
Bromoform	ND		1.0	µg/L	1	08/01/18 06:36 PM
Bromomethane	ND		1.0	µg/L	1	08/01/18 06:36 PM
Carbon disulfide	ND		1.0	µg/L	1	08/01/18 06:36 PM
Carbon tetrachloride	ND		1.0	µg/L	1	08/01/18 06:36 PM
Chlorobenzene	ND		1.0	µg/L	1	08/01/18 06:36 PM
Chloroethane	ND		1.0	µg/L	1	08/01/18 06:36 PM
Chloroform	ND		1.0	µg/L	1	08/01/18 06:36 PM
Chloromethane	ND		1.0	µg/L	1	08/01/18 06:36 PM
cis-1,2-Dichloroethene	460		10	µg/L	10	08/02/18 11:53 AM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	08/01/18 06:36 PM
Dibromochloromethane	ND		1.0	µg/L	1	08/01/18 06:36 PM
Ethylbenzene	3.2		1.0	µg/L	1	08/01/18 06:36 PM
m,p-Xylene	5.2		2.0	µg/L	1	08/01/18 06:36 PM
Methylene chloride	ND		5.0	µg/L	1	08/01/18 06:36 PM
o-Xylene	2.3		1.0	µg/L	1	08/01/18 06:36 PM
Styrene	ND		1.0	µg/L	1	08/01/18 06:36 PM
Tetrachloroethene	ND		1.0	µg/L	1	08/01/18 06:36 PM
Toluene	11		1.0	µg/L	1	08/01/18 06:36 PM
trans-1,2-Dichloroethene	3.9		1.0	µg/L	1	08/01/18 06:36 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	08/01/18 06:36 PM
Trichloroethene	ND		1.0	µg/L	1	08/01/18 06:36 PM
Vinyl chloride	410		10	µg/L	10	08/02/18 11:53 AM
Xylenes, Total	7.5		3.0	µg/L	1	08/01/18 06:36 PM
Surr: 1,2-Dichloroethane-d4	95.4		75-120	%REC	1	08/01/18 06:36 PM
Surr: 1,2-Dichloroethane-d4	96.8		75-120	%REC	10	08/02/18 11:53 AM
Surr: 4-Bromofluorobenzene	96.8		80-110	%REC	1	08/01/18 06:36 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 06-Aug-18

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040.15)

Work Order: 18071884

Sample ID: ATR-MW81(27)-G072418

Lab ID: 18071884-16

Collection Date: 07/24/18 03:30 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: 4-Bromofluorobenzene	96.2		80-110	%REC	10	08/02/18 11:53 AM
Surr: Dibromofluoromethane	99.2		85-115	%REC	1	08/01/18 06:36 PM
Surr: Dibromofluoromethane	101		85-115	%REC	10	08/02/18 11:53 AM
Surr: Toluene-d8	96.7		85-110	%REC	10	08/02/18 11:53 AM
Surr: Toluene-d8	98.1		85-110	%REC	1	08/01/18 06:36 PM
ORGANIC CARBON, TOTAL			SW9060A			Analyst: JJG
Organic Carbon, Total	82		20	mg/L	40	07/30/18 03:41 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
 Project: TFS Rochester (3359-15-1040.15)
 Sample ID: ATR-PM2-G072418
 Collection Date: 07/24/18 02:20 PM

Work Order: 18071884
 Lab ID: 18071884-17
 Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260C		Analyst: WH	
1,1,1-Trichloroethane	ND		1.0	µg/L	1	08/01/18 05:36 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	08/01/18 05:36 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	08/01/18 05:36 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	08/01/18 05:36 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	08/01/18 05:36 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	08/01/18 05:36 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	08/01/18 05:36 PM
2-Butanone	25		5.0	µg/L	1	08/01/18 05:36 PM
2-Hexanone	ND		5.0	µg/L	1	08/01/18 05:36 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	08/01/18 05:36 PM
Acetone	67		10	µg/L	1	08/01/18 05:36 PM
Benzene	ND		1.0	µg/L	1	08/01/18 05:36 PM
Bromodichloromethane	ND		1.0	µg/L	1	08/01/18 05:36 PM
Bromoform	ND		1.0	µg/L	1	08/01/18 05:36 PM
Bromomethane	ND		1.0	µg/L	1	08/01/18 05:36 PM
Carbon disulfide	ND		1.0	µg/L	1	08/01/18 05:36 PM
Carbon tetrachloride	ND		1.0	µg/L	1	08/01/18 05:36 PM
Chlorobenzene	ND		1.0	µg/L	1	08/01/18 05:36 PM
Chloroethane	ND		1.0	µg/L	1	08/01/18 05:36 PM
Chloroform	ND		1.0	µg/L	1	08/01/18 05:36 PM
Chloromethane	ND		1.0	µg/L	1	08/01/18 05:36 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	08/01/18 05:36 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	08/01/18 05:36 PM
Dibromochloromethane	ND		1.0	µg/L	1	08/01/18 05:36 PM
Ethylbenzene	8.1		1.0	µg/L	1	08/01/18 05:36 PM
m,p-Xylene	13		2.0	µg/L	1	08/01/18 05:36 PM
Methylene chloride	ND		5.0	µg/L	1	08/01/18 05:36 PM
o-Xylene	2.9		1.0	µg/L	1	08/01/18 05:36 PM
Styrene	ND		1.0	µg/L	1	08/01/18 05:36 PM
Tetrachloroethene	ND		1.0	µg/L	1	08/01/18 05:36 PM
Toluene	9.8		1.0	µg/L	1	08/01/18 05:36 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	08/01/18 05:36 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	08/01/18 05:36 PM
Trichloroethene	ND		1.0	µg/L	1	08/01/18 05:36 PM
Vinyl chloride	ND		1.0	µg/L	1	08/01/18 05:36 PM
Xylenes, Total	16		3.0	µg/L	1	08/01/18 05:36 PM
Surr: 1,2-Dichloroethane-d4	97.2		75-120	%REC	1	08/01/18 05:36 PM
Surr: 4-Bromofluorobenzene	94.6		80-110	%REC	1	08/01/18 05:36 PM
Surr: Dibromofluoromethane	100		85-115	%REC	1	08/01/18 05:36 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 06-Aug-18

Client: Wood Environment & Infrastructure Solutions, Inc.**Project:** TFS Rochester (3359-15-1040.15)**Work Order:** 18071884**Sample ID:** ATR-PM2-G072418**Lab ID:** 18071884-17**Collection Date:** 07/24/18 02:20 PM**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: Toluene-d8</i>	97.5		85-110	%REC	1	08/01/18 05:36 PM
ORGANIC CARBON, TOTAL			SW9060A			Analyst: JJG
Organic Carbon, Total	53		10	mg/L	20	07/30/18 03:41 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040.15)

Work Order: 18071884

Sample ID: ATR-OW1(28)-G072418

Lab ID: 18071884-18

Collection Date: 07/24/18 11:25 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260C			Analyst: LSY
1,1,1-Trichloroethane	ND		1.0	µg/L	1	07/31/18 08:04 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	07/31/18 08:04 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	07/31/18 08:04 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	07/31/18 08:04 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	07/31/18 08:04 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	07/31/18 08:04 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	07/31/18 08:04 PM
2-Butanone	ND		5.0	µg/L	1	07/31/18 08:04 PM
2-Hexanone	ND		5.0	µg/L	1	07/31/18 08:04 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	07/31/18 08:04 PM
Acetone	ND		10	µg/L	1	07/31/18 08:04 PM
Benzene	ND		1.0	µg/L	1	07/31/18 08:04 PM
Bromodichloromethane	ND		1.0	µg/L	1	07/31/18 08:04 PM
Bromoform	ND		1.0	µg/L	1	07/31/18 08:04 PM
Bromomethane	ND		1.0	µg/L	1	07/31/18 08:04 PM
Carbon disulfide	ND		1.0	µg/L	1	07/31/18 08:04 PM
Carbon tetrachloride	ND		1.0	µg/L	1	07/31/18 08:04 PM
Chlorobenzene	ND		1.0	µg/L	1	07/31/18 08:04 PM
Chloroethane	ND		1.0	µg/L	1	07/31/18 08:04 PM
Chloroform	ND		1.0	µg/L	1	07/31/18 08:04 PM
Chloromethane	ND		1.0	µg/L	1	07/31/18 08:04 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	07/31/18 08:04 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	07/31/18 08:04 PM
Dibromochloromethane	ND		1.0	µg/L	1	07/31/18 08:04 PM
Ethylbenzene	ND		1.0	µg/L	1	07/31/18 08:04 PM
m,p-Xylene	ND		2.0	µg/L	1	07/31/18 08:04 PM
Methylene chloride	ND		5.0	µg/L	1	07/31/18 08:04 PM
o-Xylene	ND		1.0	µg/L	1	07/31/18 08:04 PM
Styrene	ND		1.0	µg/L	1	07/31/18 08:04 PM
Tetrachloroethene	ND		1.0	µg/L	1	07/31/18 08:04 PM
Toluene	ND		1.0	µg/L	1	07/31/18 08:04 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	07/31/18 08:04 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	07/31/18 08:04 PM
Trichloroethene	ND		1.0	µg/L	1	07/31/18 08:04 PM
Vinyl chloride	ND		1.0	µg/L	1	07/31/18 08:04 PM
Xylenes, Total	ND		3.0	µg/L	1	07/31/18 08:04 PM
Surr: 1,2-Dichloroethane-d4	104		75-120	%REC	1	07/31/18 08:04 PM
Surr: 4-Bromofluorobenzene	96.9		80-110	%REC	1	07/31/18 08:04 PM
Surr: Dibromofluoromethane	100		85-115	%REC	1	07/31/18 08:04 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 06-Aug-18

Client: Wood Environment & Infrastructure Solutions, Inc.**Project:** TFS Rochester (3359-15-1040.15)**Work Order:** 18071884**Sample ID:** ATR-OW1(28)-G072418**Lab ID:** 18071884-18**Collection Date:** 07/24/18 11:25 AM**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: Toluene-d8</i>	97.3		85-110	%REC	1	07/31/18 08:04 PM
ORGANIC CARBON, TOTAL			SW9060A			Analyst: JJG
Organic Carbon, Total	4.2		0.50	mg/L	1	07/30/18 03:41 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.15)
Sample ID: ATR-OW1(28)-G072418-EB
Collection Date: 07/24/18 11:40 AM

Work Order: 18071884
Lab ID: 18071884-19
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS

SW8260C

Analyst: **LSY**

1,1,1-Trichloroethane	ND		1.0	µg/L	1	07/31/18 08:20 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	07/31/18 08:20 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	07/31/18 08:20 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	07/31/18 08:20 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	07/31/18 08:20 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	07/31/18 08:20 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	07/31/18 08:20 PM
2-Butanone	ND		5.0	µg/L	1	07/31/18 08:20 PM
2-Hexanone	ND		5.0	µg/L	1	07/31/18 08:20 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	07/31/18 08:20 PM
Acetone	ND		10	µg/L	1	07/31/18 08:20 PM
Benzene	ND		1.0	µg/L	1	07/31/18 08:20 PM
Bromodichloromethane	ND		1.0	µg/L	1	07/31/18 08:20 PM
Bromoform	ND		1.0	µg/L	1	07/31/18 08:20 PM
Bromomethane	ND		1.0	µg/L	1	07/31/18 08:20 PM
Carbon disulfide	ND		1.0	µg/L	1	07/31/18 08:20 PM
Carbon tetrachloride	ND		1.0	µg/L	1	07/31/18 08:20 PM
Chlorobenzene	ND		1.0	µg/L	1	07/31/18 08:20 PM
Chloroethane	ND		1.0	µg/L	1	07/31/18 08:20 PM
Chloroform	ND		1.0	µg/L	1	07/31/18 08:20 PM
Chloromethane	ND		1.0	µg/L	1	07/31/18 08:20 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	07/31/18 08:20 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	07/31/18 08:20 PM
Dibromochloromethane	ND		1.0	µg/L	1	07/31/18 08:20 PM
Ethylbenzene	ND		1.0	µg/L	1	07/31/18 08:20 PM
m,p-Xylene	ND		2.0	µg/L	1	07/31/18 08:20 PM
Methylene chloride	ND		5.0	µg/L	1	07/31/18 08:20 PM
o-Xylene	ND		1.0	µg/L	1	07/31/18 08:20 PM
Styrene	ND		1.0	µg/L	1	07/31/18 08:20 PM
Tetrachloroethene	ND		1.0	µg/L	1	07/31/18 08:20 PM
Toluene	ND		1.0	µg/L	1	07/31/18 08:20 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	07/31/18 08:20 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	07/31/18 08:20 PM
Trichloroethene	ND		1.0	µg/L	1	07/31/18 08:20 PM
Vinyl chloride	ND		1.0	µg/L	1	07/31/18 08:20 PM
Xylenes, Total	ND		3.0	µg/L	1	07/31/18 08:20 PM
Surr: 1,2-Dichloroethane-d4	106		75-120	%REC	1	07/31/18 08:20 PM
Surr: 4-Bromofluorobenzene	96.4		80-110	%REC	1	07/31/18 08:20 PM
Surr: Dibromofluoromethane	100		85-115	%REC	1	07/31/18 08:20 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 06-Aug-18

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.15)
Sample ID: ATR-OW1(28)-G072418-EB
Collection Date: 07/24/18 11:40 AM

Work Order: 18071884
Lab ID: 18071884-19
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: Toluene-d8</i>	96.6		85-110	%REC	1	07/31/18 08:20 PM
ORGANIC CARBON, TOTAL			SW9060A			Analyst: JJG
Organic Carbon, Total	0.60		0.50	mg/L	1	07/31/18 04:57 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040.15)

Work Order: 18071884

Sample ID: ATR-OW1(39)-G072418

Lab ID: 18071884-20

Collection Date: 07/24/18 10:15 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260C			Analyst: LSY
1,1,1-Trichloroethane	ND		1.0	µg/L	1	07/31/18 08:37 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	07/31/18 08:37 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	07/31/18 08:37 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	07/31/18 08:37 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	07/31/18 08:37 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	07/31/18 08:37 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	07/31/18 08:37 PM
2-Butanone	ND		5.0	µg/L	1	07/31/18 08:37 PM
2-Hexanone	ND		5.0	µg/L	1	07/31/18 08:37 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	07/31/18 08:37 PM
Acetone	ND		10	µg/L	1	07/31/18 08:37 PM
Benzene	ND		1.0	µg/L	1	07/31/18 08:37 PM
Bromodichloromethane	ND		1.0	µg/L	1	07/31/18 08:37 PM
Bromoform	ND		1.0	µg/L	1	07/31/18 08:37 PM
Bromomethane	ND		1.0	µg/L	1	07/31/18 08:37 PM
Carbon disulfide	ND		1.0	µg/L	1	07/31/18 08:37 PM
Carbon tetrachloride	ND		1.0	µg/L	1	07/31/18 08:37 PM
Chlorobenzene	ND		1.0	µg/L	1	07/31/18 08:37 PM
Chloroethane	ND		1.0	µg/L	1	07/31/18 08:37 PM
Chloroform	ND		1.0	µg/L	1	07/31/18 08:37 PM
Chloromethane	ND		1.0	µg/L	1	07/31/18 08:37 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	07/31/18 08:37 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	07/31/18 08:37 PM
Dibromochloromethane	ND		1.0	µg/L	1	07/31/18 08:37 PM
Ethylbenzene	ND		1.0	µg/L	1	07/31/18 08:37 PM
m,p-Xylene	ND		2.0	µg/L	1	07/31/18 08:37 PM
Methylene chloride	ND		5.0	µg/L	1	07/31/18 08:37 PM
o-Xylene	ND		1.0	µg/L	1	07/31/18 08:37 PM
Styrene	ND		1.0	µg/L	1	07/31/18 08:37 PM
Tetrachloroethene	ND		1.0	µg/L	1	07/31/18 08:37 PM
Toluene	ND		1.0	µg/L	1	07/31/18 08:37 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	07/31/18 08:37 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	07/31/18 08:37 PM
Trichloroethene	ND		1.0	µg/L	1	07/31/18 08:37 PM
Vinyl chloride	ND		1.0	µg/L	1	07/31/18 08:37 PM
Xylenes, Total	ND		3.0	µg/L	1	07/31/18 08:37 PM
Surr: 1,2-Dichloroethane-d4	105		75-120	%REC	1	07/31/18 08:37 PM
Surr: 4-Bromofluorobenzene	96.1		80-110	%REC	1	07/31/18 08:37 PM
Surr: Dibromofluoromethane	102		85-115	%REC	1	07/31/18 08:37 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 06-Aug-18

Client: Wood Environment & Infrastructure Solutions, Inc.**Project:** TFS Rochester (3359-15-1040.15)**Work Order:** 18071884**Sample ID:** ATR-OW1(39)-G072418**Lab ID:** 18071884-20**Collection Date:** 07/24/18 10:15 AM**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: Toluene-d8</i>	98.6		85-110	%REC	1	07/31/18 08:37 PM
ORGANIC CARBON, TOTAL			SW9060A			Analyst: JJG
Organic Carbon, Total	4.5		0.50	mg/L	1	07/31/18 04:57 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040.15)

Work Order: 18071884

Sample ID: ATR-OW4(54)-G072418

Lab ID: 18071884-21

Collection Date: 07/24/18 09:10 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260C		Analyst: LSY	
1,1,1-Trichloroethane	ND		1.0	µg/L	1	07/31/18 11:39 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	07/31/18 11:39 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	07/31/18 11:39 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	07/31/18 11:39 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	07/31/18 11:39 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	07/31/18 11:39 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	07/31/18 11:39 PM
2-Butanone	75		5.0	µg/L	1	07/31/18 11:39 PM
2-Hexanone	ND		5.0	µg/L	1	07/31/18 11:39 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	07/31/18 11:39 PM
Acetone	ND		10	µg/L	1	07/31/18 11:39 PM
Benzene	ND		1.0	µg/L	1	07/31/18 11:39 PM
Bromodichloromethane	ND		1.0	µg/L	1	07/31/18 11:39 PM
Bromoform	ND		1.0	µg/L	1	07/31/18 11:39 PM
Bromomethane	ND		1.0	µg/L	1	07/31/18 11:39 PM
Carbon disulfide	ND		1.0	µg/L	1	07/31/18 11:39 PM
Carbon tetrachloride	ND		1.0	µg/L	1	07/31/18 11:39 PM
Chlorobenzene	ND		1.0	µg/L	1	07/31/18 11:39 PM
Chloroethane	ND		1.0	µg/L	1	07/31/18 11:39 PM
Chloroform	ND		1.0	µg/L	1	07/31/18 11:39 PM
Chloromethane	ND		1.0	µg/L	1	07/31/18 11:39 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	07/31/18 11:39 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	07/31/18 11:39 PM
Dibromochloromethane	ND		1.0	µg/L	1	07/31/18 11:39 PM
Ethylbenzene	ND		1.0	µg/L	1	07/31/18 11:39 PM
m,p-Xylene	ND		2.0	µg/L	1	07/31/18 11:39 PM
Methylene chloride	ND		5.0	µg/L	1	07/31/18 11:39 PM
o-Xylene	ND		1.0	µg/L	1	07/31/18 11:39 PM
Styrene	ND		1.0	µg/L	1	07/31/18 11:39 PM
Tetrachloroethene	ND		1.0	µg/L	1	07/31/18 11:39 PM
Toluene	ND		1.0	µg/L	1	07/31/18 11:39 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	07/31/18 11:39 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	07/31/18 11:39 PM
Trichloroethene	ND		1.0	µg/L	1	07/31/18 11:39 PM
Vinyl chloride	ND		1.0	µg/L	1	07/31/18 11:39 PM
Xylenes, Total	ND		3.0	µg/L	1	07/31/18 11:39 PM
Surr: 1,2-Dichloroethane-d4	104		75-120	%REC	1	07/31/18 11:39 PM
Surr: 4-Bromofluorobenzene	97.1		80-110	%REC	1	07/31/18 11:39 PM
Surr: Dibromofluoromethane	98.0		85-115	%REC	1	07/31/18 11:39 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 06-Aug-18

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040.15)

Work Order: 18071884

Sample ID: ATR-OW4(54)-G072418

Lab ID: 18071884-21

Collection Date: 07/24/18 09:10 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: Toluene-d8</i>	98.2		85-110	%REC	1	07/31/18 11:39 PM
ORGANIC CARBON, TOTAL			SW9060A			Analyst: JJG
Organic Carbon, Total	110		20	mg/L	40	07/31/18 04:57 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040.15)

Work Order: 18071884

Sample ID: ATR-MW82(58)-G072418

Lab ID: 18071884-22

Collection Date: 07/24/18 04:55 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260C			Analyst: LSY
1,1,1-Trichloroethane	ND		1.0	µg/L	1	07/31/18 11:56 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	07/31/18 11:56 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	07/31/18 11:56 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	07/31/18 11:56 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	07/31/18 11:56 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	07/31/18 11:56 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	07/31/18 11:56 PM
2-Butanone	ND		5.0	µg/L	1	07/31/18 11:56 PM
2-Hexanone	ND		5.0	µg/L	1	07/31/18 11:56 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	07/31/18 11:56 PM
Acetone	ND		10	µg/L	1	07/31/18 11:56 PM
Benzene	ND		1.0	µg/L	1	07/31/18 11:56 PM
Bromodichloromethane	ND		1.0	µg/L	1	07/31/18 11:56 PM
Bromoform	ND		1.0	µg/L	1	07/31/18 11:56 PM
Bromomethane	ND		1.0	µg/L	1	07/31/18 11:56 PM
Carbon disulfide	ND		1.0	µg/L	1	07/31/18 11:56 PM
Carbon tetrachloride	ND		1.0	µg/L	1	07/31/18 11:56 PM
Chlorobenzene	ND		1.0	µg/L	1	07/31/18 11:56 PM
Chloroethane	ND		1.0	µg/L	1	07/31/18 11:56 PM
Chloroform	ND		1.0	µg/L	1	07/31/18 11:56 PM
Chloromethane	ND		1.0	µg/L	1	07/31/18 11:56 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	07/31/18 11:56 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	07/31/18 11:56 PM
Dibromochloromethane	ND		1.0	µg/L	1	07/31/18 11:56 PM
Ethylbenzene	ND		1.0	µg/L	1	07/31/18 11:56 PM
m,p-Xylene	ND		2.0	µg/L	1	07/31/18 11:56 PM
Methylene chloride	ND		5.0	µg/L	1	07/31/18 11:56 PM
o-Xylene	ND		1.0	µg/L	1	07/31/18 11:56 PM
Styrene	ND		1.0	µg/L	1	07/31/18 11:56 PM
Tetrachloroethene	ND		1.0	µg/L	1	07/31/18 11:56 PM
Toluene	ND		1.0	µg/L	1	07/31/18 11:56 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	07/31/18 11:56 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	07/31/18 11:56 PM
Trichloroethene	ND		1.0	µg/L	1	07/31/18 11:56 PM
Vinyl chloride	ND		1.0	µg/L	1	07/31/18 11:56 PM
Xylenes, Total	ND		3.0	µg/L	1	07/31/18 11:56 PM
Surr: 1,2-Dichloroethane-d4	106		75-120	%REC	1	07/31/18 11:56 PM
Surr: 4-Bromofluorobenzene	97.1		80-110	%REC	1	07/31/18 11:56 PM
Surr: Dibromofluoromethane	99.8		85-115	%REC	1	07/31/18 11:56 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 06-Aug-18

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.15)
Sample ID: ATR-MW82(58)-G072418
Collection Date: 07/24/18 04:55 PM

Work Order: 18071884
Lab ID: 18071884-22
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: Toluene-d8</i>	96.6		85-110	%REC	1	07/31/18 11:56 PM
ORGANIC CARBON, TOTAL			SW9060A			Analyst: JJG
Organic Carbon, Total	3.3		0.50	mg/L	1	07/31/18 04:57 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040.15)

Work Order: 18071884

Sample ID: ATR-MW25(45.2)-G072418

Lab ID: 18071884-23

Collection Date: 07/24/18 09:15 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260C		Analyst: WH	
1,1,1-Trichloroethane	ND		1.0	µg/L	1	08/01/18 05:51 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	08/01/18 05:51 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	08/01/18 05:51 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	08/01/18 05:51 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	08/01/18 05:51 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	08/01/18 05:51 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	08/01/18 05:51 PM
2-Butanone	77		5.0	µg/L	1	08/01/18 05:51 PM
2-Hexanone	ND		5.0	µg/L	1	08/01/18 05:51 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	08/01/18 05:51 PM
Acetone	ND		10	µg/L	1	08/01/18 05:51 PM
Benzene	ND		1.0	µg/L	1	08/01/18 05:51 PM
Bromodichloromethane	ND		1.0	µg/L	1	08/01/18 05:51 PM
Bromoform	ND		1.0	µg/L	1	08/01/18 05:51 PM
Bromomethane	ND		1.0	µg/L	1	08/01/18 05:51 PM
Carbon disulfide	ND		1.0	µg/L	1	08/01/18 05:51 PM
Carbon tetrachloride	ND		1.0	µg/L	1	08/01/18 05:51 PM
Chlorobenzene	ND		1.0	µg/L	1	08/01/18 05:51 PM
Chloroethane	ND		1.0	µg/L	1	08/01/18 05:51 PM
Chloroform	ND		1.0	µg/L	1	08/01/18 05:51 PM
Chloromethane	ND		1.0	µg/L	1	08/01/18 05:51 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	08/01/18 05:51 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	08/01/18 05:51 PM
Dibromochloromethane	ND		1.0	µg/L	1	08/01/18 05:51 PM
Ethylbenzene	ND		1.0	µg/L	1	08/01/18 05:51 PM
m,p-Xylene	ND		2.0	µg/L	1	08/01/18 05:51 PM
Methylene chloride	ND		5.0	µg/L	1	08/01/18 05:51 PM
o-Xylene	ND		1.0	µg/L	1	08/01/18 05:51 PM
Styrene	ND		1.0	µg/L	1	08/01/18 05:51 PM
Tetrachloroethene	ND		1.0	µg/L	1	08/01/18 05:51 PM
Toluene	ND		1.0	µg/L	1	08/01/18 05:51 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	08/01/18 05:51 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	08/01/18 05:51 PM
Trichloroethene	ND		1.0	µg/L	1	08/01/18 05:51 PM
Vinyl chloride	ND		1.0	µg/L	1	08/01/18 05:51 PM
Xylenes, Total	ND		3.0	µg/L	1	08/01/18 05:51 PM
Surr: 1,2-Dichloroethane-d4	98.2		75-120	%REC	1	08/01/18 05:51 PM
Surr: 4-Bromofluorobenzene	97.4		80-110	%REC	1	08/01/18 05:51 PM
Surr: Dibromofluoromethane	103		85-115	%REC	1	08/01/18 05:51 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 06-Aug-18

Client: Wood Environment & Infrastructure Solutions, Inc.**Project:** TFS Rochester (3359-15-1040.15)**Work Order:** 18071884**Sample ID:** ATR-MW25(45.2)-G072418**Lab ID:** 18071884-23**Collection Date:** 07/24/18 09:15 AM**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: Toluene-d8</i>	98.6		85-110	%REC	1	08/01/18 05:51 PM
ORGANIC CARBON, TOTAL			SW9060A			Analyst: JJG
Organic Carbon, Total	74		50	mg/L	100	07/31/18 04:57 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040.15)

Work Order: 18071884

Sample ID: ATR-MW14-G072418

Lab ID: 18071884-24

Collection Date: 07/24/18 11:35 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260C		Analyst: LSY	
1,1,1-Trichloroethane	ND		1.0	µg/L	1	08/01/18 12:29 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	08/01/18 12:29 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	08/01/18 12:29 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	08/01/18 12:29 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	08/01/18 12:29 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	08/01/18 12:29 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	08/01/18 12:29 PM
2-Butanone	ND		5.0	µg/L	1	08/01/18 12:29 PM
2-Hexanone	ND		5.0	µg/L	1	08/01/18 12:29 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	08/01/18 12:29 PM
Acetone	ND		10	µg/L	1	08/01/18 12:29 PM
Benzene	ND		1.0	µg/L	1	08/01/18 12:29 PM
Bromodichloromethane	ND		1.0	µg/L	1	08/01/18 12:29 PM
Bromoform	ND		1.0	µg/L	1	08/01/18 12:29 PM
Bromomethane	ND		1.0	µg/L	1	08/01/18 12:29 PM
Carbon disulfide	ND		1.0	µg/L	1	08/01/18 12:29 PM
Carbon tetrachloride	ND		1.0	µg/L	1	08/01/18 12:29 PM
Chlorobenzene	ND		1.0	µg/L	1	08/01/18 12:29 PM
Chloroethane	ND		1.0	µg/L	1	08/01/18 12:29 PM
Chloroform	ND		1.0	µg/L	1	08/01/18 12:29 PM
Chloromethane	ND		1.0	µg/L	1	08/01/18 12:29 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	08/01/18 12:29 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	08/01/18 12:29 PM
Dibromochloromethane	ND		1.0	µg/L	1	08/01/18 12:29 PM
Ethylbenzene	ND		1.0	µg/L	1	08/01/18 12:29 PM
m,p-Xylene	ND		2.0	µg/L	1	08/01/18 12:29 PM
Methylene chloride	ND		5.0	µg/L	1	08/01/18 12:29 PM
o-Xylene	ND		1.0	µg/L	1	08/01/18 12:29 PM
Styrene	ND		1.0	µg/L	1	08/01/18 12:29 PM
Tetrachloroethene	ND		1.0	µg/L	1	08/01/18 12:29 PM
Toluene	ND		1.0	µg/L	1	08/01/18 12:29 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	08/01/18 12:29 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	08/01/18 12:29 PM
Trichloroethene	ND		1.0	µg/L	1	08/01/18 12:29 PM
Vinyl chloride	ND		1.0	µg/L	1	08/01/18 12:29 PM
Xylenes, Total	ND		3.0	µg/L	1	08/01/18 12:29 PM
Surr: 1,2-Dichloroethane-d4	106		75-120	%REC	1	08/01/18 12:29 PM
Surr: 4-Bromofluorobenzene	95.4		80-110	%REC	1	08/01/18 12:29 PM
Surr: Dibromofluoromethane	100		85-115	%REC	1	08/01/18 12:29 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 06-Aug-18

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040.15)

Work Order: 18071884

Sample ID: ATR-MW14-G072418

Lab ID: 18071884-24

Collection Date: 07/24/18 11:35 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: Toluene-d8</i>	98.1		85-110	%REC	1	08/01/18 12:29 PM
ORGANIC CARBON, TOTAL			SW9060A			Analyst: JJG
Organic Carbon, Total	4.4		0.50	mg/L	1	07/31/18 04:57 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.15)
Sample ID: ATR-PM-3-G072418
Collection Date: 07/24/18 02:15 PM

Work Order: 18071884
Lab ID: 18071884-25
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260C		Analyst: WH	
1,1,1-Trichloroethane	ND		50	µg/L	50	08/02/18 01:19 PM
1,1,2,2-Tetrachloroethane	ND		50	µg/L	50	08/02/18 01:19 PM
1,1,2-Trichloroethane	ND		50	µg/L	50	08/02/18 01:19 PM
1,1-Dichloroethane	ND		50	µg/L	50	08/02/18 01:19 PM
1,1-Dichloroethene	ND		50	µg/L	50	08/02/18 01:19 PM
1,2-Dichloroethane	ND		50	µg/L	50	08/02/18 01:19 PM
1,2-Dichloropropane	ND		50	µg/L	50	08/02/18 01:19 PM
2-Butanone	ND		250	µg/L	50	08/02/18 01:19 PM
2-Hexanone	ND		250	µg/L	50	08/02/18 01:19 PM
4-Methyl-2-pentanone	ND		50	µg/L	50	08/02/18 01:19 PM
Acetone	ND		500	µg/L	50	08/02/18 01:19 PM
Benzene	ND		50	µg/L	50	08/02/18 01:19 PM
Bromodichloromethane	ND		50	µg/L	50	08/02/18 01:19 PM
Bromoform	ND		50	µg/L	50	08/02/18 01:19 PM
Bromomethane	ND		50	µg/L	50	08/02/18 01:19 PM
Carbon disulfide	ND		50	µg/L	50	08/02/18 01:19 PM
Carbon tetrachloride	ND		50	µg/L	50	08/02/18 01:19 PM
Chlorobenzene	ND		50	µg/L	50	08/02/18 01:19 PM
Chloroethane	ND		50	µg/L	50	08/02/18 01:19 PM
Chloroform	ND		50	µg/L	50	08/02/18 01:19 PM
Chloromethane	ND		50	µg/L	50	08/02/18 01:19 PM
cis-1,2-Dichloroethene	2,700		50	µg/L	50	08/02/18 01:19 PM
cis-1,3-Dichloropropene	ND		50	µg/L	50	08/02/18 01:19 PM
Dibromochloromethane	ND		50	µg/L	50	08/02/18 01:19 PM
Ethylbenzene	ND		50	µg/L	50	08/02/18 01:19 PM
m,p-Xylene	ND		100	µg/L	50	08/02/18 01:19 PM
Methylene chloride	ND		250	µg/L	50	08/02/18 01:19 PM
o-Xylene	ND		50	µg/L	50	08/02/18 01:19 PM
Styrene	ND		50	µg/L	50	08/02/18 01:19 PM
Tetrachloroethene	ND		50	µg/L	50	08/02/18 01:19 PM
Toluene	ND		50	µg/L	50	08/02/18 01:19 PM
trans-1,2-Dichloroethene	ND		50	µg/L	50	08/02/18 01:19 PM
trans-1,3-Dichloropropene	ND		50	µg/L	50	08/02/18 01:19 PM
Trichloroethene	ND		50	µg/L	50	08/02/18 01:19 PM
Vinyl chloride	22,000		500	µg/L	500	08/01/18 12:46 PM
Xylenes, Total	ND		150	µg/L	50	08/02/18 01:19 PM
Surr: 1,2-Dichloroethane-d4	105		75-120	%REC	500	08/01/18 12:46 PM
Surr: 1,2-Dichloroethane-d4	95.1		75-120	%REC	50	08/02/18 01:19 PM
Surr: 4-Bromofluorobenzene	97.8		80-110	%REC	500	08/01/18 12:46 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 06-Aug-18

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040.15)

Work Order: 18071884

Sample ID: ATR-PM-3-G072418

Lab ID: 18071884-25

Collection Date: 07/24/18 02:15 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: 4-Bromofluorobenzene	94.8		80-110	%REC	50	08/02/18 01:19 PM
Surr: Dibromofluoromethane	99.9		85-115	%REC	500	08/01/18 12:46 PM
Surr: Dibromofluoromethane	99.9		85-115	%REC	50	08/02/18 01:19 PM
Surr: Toluene-d8	98.0		85-110	%REC	50	08/02/18 01:19 PM
Surr: Toluene-d8	97.2		85-110	%REC	500	08/01/18 12:46 PM
ORGANIC CARBON, TOTAL			SW9060A			Analyst: JJG
Organic Carbon, Total	2,100		250	mg/L	500	07/31/18 04:57 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.15)
Sample ID: ATR-PM-3-G072418-R
Collection Date: 07/24/18 02:15 PM

Work Order: 18071884
Lab ID: 18071884-26
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260C		Analyst: WH	
1,1,1-Trichloroethane	ND		50	µg/L	50	08/02/18 01:34 PM
1,1,2,2-Tetrachloroethane	ND		50	µg/L	50	08/02/18 01:34 PM
1,1,2-Trichloroethane	ND		50	µg/L	50	08/02/18 01:34 PM
1,1-Dichloroethane	ND		50	µg/L	50	08/02/18 01:34 PM
1,1-Dichloroethene	ND		50	µg/L	50	08/02/18 01:34 PM
1,2-Dichloroethane	ND		50	µg/L	50	08/02/18 01:34 PM
1,2-Dichloropropane	ND		50	µg/L	50	08/02/18 01:34 PM
2-Butanone	ND		250	µg/L	50	08/02/18 01:34 PM
2-Hexanone	ND		250	µg/L	50	08/02/18 01:34 PM
4-Methyl-2-pentanone	ND		50	µg/L	50	08/02/18 01:34 PM
Acetone	ND		500	µg/L	50	08/02/18 01:34 PM
Benzene	ND		50	µg/L	50	08/02/18 01:34 PM
Bromodichloromethane	ND		50	µg/L	50	08/02/18 01:34 PM
Bromoform	ND		50	µg/L	50	08/02/18 01:34 PM
Bromomethane	ND		50	µg/L	50	08/02/18 01:34 PM
Carbon disulfide	ND		50	µg/L	50	08/02/18 01:34 PM
Carbon tetrachloride	ND		50	µg/L	50	08/02/18 01:34 PM
Chlorobenzene	ND		50	µg/L	50	08/02/18 01:34 PM
Chloroethane	ND		50	µg/L	50	08/02/18 01:34 PM
Chloroform	ND		50	µg/L	50	08/02/18 01:34 PM
Chloromethane	ND		50	µg/L	50	08/02/18 01:34 PM
cis-1,2-Dichloroethene	3,000		50	µg/L	50	08/02/18 01:34 PM
cis-1,3-Dichloropropene	ND		50	µg/L	50	08/02/18 01:34 PM
Dibromochloromethane	ND		50	µg/L	50	08/02/18 01:34 PM
Ethylbenzene	ND		50	µg/L	50	08/02/18 01:34 PM
m,p-Xylene	ND		100	µg/L	50	08/02/18 01:34 PM
Methylene chloride	ND		250	µg/L	50	08/02/18 01:34 PM
o-Xylene	ND		50	µg/L	50	08/02/18 01:34 PM
Styrene	ND		50	µg/L	50	08/02/18 01:34 PM
Tetrachloroethene	ND		50	µg/L	50	08/02/18 01:34 PM
Toluene	ND		50	µg/L	50	08/02/18 01:34 PM
trans-1,2-Dichloroethene	ND		50	µg/L	50	08/02/18 01:34 PM
trans-1,3-Dichloropropene	ND		50	µg/L	50	08/02/18 01:34 PM
Trichloroethene	ND		50	µg/L	50	08/02/18 01:34 PM
Vinyl chloride	19,000		500	µg/L	500	08/01/18 01:02 AM
Xylenes, Total	ND		150	µg/L	50	08/02/18 01:34 PM
Surr: 1,2-Dichloroethane-d4	107		75-120	%REC	500	08/01/18 01:02 AM
Surr: 1,2-Dichloroethane-d4	96.5		75-120	%REC	50	08/02/18 01:34 PM
Surr: 4-Bromofluorobenzene	98.2		80-110	%REC	500	08/01/18 01:02 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 06-Aug-18

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040.15)

Work Order: 18071884

Sample ID: ATR-PM-3-G072418-R

Lab ID: 18071884-26

Collection Date: 07/24/18 02:15 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: 4-Bromofluorobenzene	93.6		80-110	%REC	50	08/02/18 01:34 PM
Surr: Dibromofluoromethane	98.9		85-115	%REC	500	08/01/18 01:02 AM
Surr: Dibromofluoromethane	101		85-115	%REC	50	08/02/18 01:34 PM
Surr: Toluene-d8	98.2		85-110	%REC	50	08/02/18 01:34 PM
Surr: Toluene-d8	96.6		85-110	%REC	500	08/01/18 01:02 AM
ORGANIC CARBON, TOTAL			SW9060A			Analyst: JJG
Organic Carbon, Total	2,100		250	mg/L	500	07/31/18 04:57 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.15)
Sample ID: ATR-MW62(36)-G072418-1740
Collection Date: 07/24/18 05:40 PM

Work Order: 18071884
Lab ID: 18071884-27
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS

SW8260C

Analyst: **LSY**

1,1,1-Trichloroethane	ND		1.0	µg/L	1	08/01/18 01:19 AM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	08/01/18 01:19 AM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	08/01/18 01:19 AM
1,1-Dichloroethane	ND		1.0	µg/L	1	08/01/18 01:19 AM
1,1-Dichloroethene	ND		1.0	µg/L	1	08/01/18 01:19 AM
1,2-Dichloroethane	ND		1.0	µg/L	1	08/01/18 01:19 AM
1,2-Dichloropropane	ND		1.0	µg/L	1	08/01/18 01:19 AM
2-Butanone	ND		5.0	µg/L	1	08/01/18 01:19 AM
2-Hexanone	ND		5.0	µg/L	1	08/01/18 01:19 AM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	08/01/18 01:19 AM
Acetone	ND		10	µg/L	1	08/01/18 01:19 AM
Benzene	ND		1.0	µg/L	1	08/01/18 01:19 AM
Bromodichloromethane	ND		1.0	µg/L	1	08/01/18 01:19 AM
Bromoform	ND		1.0	µg/L	1	08/01/18 01:19 AM
Bromomethane	ND		1.0	µg/L	1	08/01/18 01:19 AM
Carbon disulfide	ND		1.0	µg/L	1	08/01/18 01:19 AM
Carbon tetrachloride	ND		1.0	µg/L	1	08/01/18 01:19 AM
Chlorobenzene	ND		1.0	µg/L	1	08/01/18 01:19 AM
Chloroethane	ND		1.0	µg/L	1	08/01/18 01:19 AM
Chloroform	ND		1.0	µg/L	1	08/01/18 01:19 AM
Chloromethane	ND		1.0	µg/L	1	08/01/18 01:19 AM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	08/01/18 01:19 AM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	08/01/18 01:19 AM
Dibromochloromethane	ND		1.0	µg/L	1	08/01/18 01:19 AM
Ethylbenzene	ND		1.0	µg/L	1	08/01/18 01:19 AM
m,p-Xylene	ND		2.0	µg/L	1	08/01/18 01:19 AM
Methylene chloride	ND		5.0	µg/L	1	08/01/18 01:19 AM
o-Xylene	ND		1.0	µg/L	1	08/01/18 01:19 AM
Styrene	ND		1.0	µg/L	1	08/01/18 01:19 AM
Tetrachloroethene	ND		1.0	µg/L	1	08/01/18 01:19 AM
Toluene	ND		1.0	µg/L	1	08/01/18 01:19 AM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	08/01/18 01:19 AM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	08/01/18 01:19 AM
Trichloroethene	ND		1.0	µg/L	1	08/01/18 01:19 AM
Vinyl chloride	ND		1.0	µg/L	1	08/01/18 01:19 AM
Xylenes, Total	ND		3.0	µg/L	1	08/01/18 01:19 AM
Surr: 1,2-Dichloroethane-d4	104		75-120	%REC	1	08/01/18 01:19 AM
Surr: 4-Bromofluorobenzene	99.2		80-110	%REC	1	08/01/18 01:19 AM
Surr: Dibromofluoromethane	101		85-115	%REC	1	08/01/18 01:19 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 06-Aug-18

Client: Wood Environment & Infrastructure Solutions, Inc.**Project:** TFS Rochester (3359-15-1040.15)**Work Order:** 18071884**Sample ID:** ATR-MW62(36)-G072418-1740**Lab ID:** 18071884-27**Collection Date:** 07/24/18 05:40 PM**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: Toluene-d8</i>	97.9		85-110	%REC	1	08/01/18 01:19 AM
ORGANIC CARBON, TOTAL			SW9060A			Analyst: JJG
Organic Carbon, Total	7.3		5.0	mg/L	10	07/31/18 04:57 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040.15)

Work Order: 18071884

Sample ID: ATR-OW3(35)-G072418-0925

Lab ID: 18071884-28

Collection Date: 07/24/18 09:25 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260C		Analyst: LSY	
1,1,1-Trichloroethane	ND		1.0	µg/L	1	08/01/18 01:36 AM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	08/01/18 01:36 AM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	08/01/18 01:36 AM
1,1-Dichloroethane	ND		1.0	µg/L	1	08/01/18 01:36 AM
1,1-Dichloroethene	ND		1.0	µg/L	1	08/01/18 01:36 AM
1,2-Dichloroethane	ND		1.0	µg/L	1	08/01/18 01:36 AM
1,2-Dichloropropane	ND		1.0	µg/L	1	08/01/18 01:36 AM
2-Butanone	ND		5.0	µg/L	1	08/01/18 01:36 AM
2-Hexanone	ND		5.0	µg/L	1	08/01/18 01:36 AM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	08/01/18 01:36 AM
Acetone	ND		10	µg/L	1	08/01/18 01:36 AM
Benzene	ND		1.0	µg/L	1	08/01/18 01:36 AM
Bromodichloromethane	ND		1.0	µg/L	1	08/01/18 01:36 AM
Bromoform	ND		1.0	µg/L	1	08/01/18 01:36 AM
Bromomethane	ND		1.0	µg/L	1	08/01/18 01:36 AM
Carbon disulfide	ND		1.0	µg/L	1	08/01/18 01:36 AM
Carbon tetrachloride	ND		1.0	µg/L	1	08/01/18 01:36 AM
Chlorobenzene	ND		1.0	µg/L	1	08/01/18 01:36 AM
Chloroethane	ND		1.0	µg/L	1	08/01/18 01:36 AM
Chloroform	ND		1.0	µg/L	1	08/01/18 01:36 AM
Chloromethane	ND		1.0	µg/L	1	08/01/18 01:36 AM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	08/01/18 01:36 AM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	08/01/18 01:36 AM
Dibromochloromethane	ND		1.0	µg/L	1	08/01/18 01:36 AM
Ethylbenzene	ND		1.0	µg/L	1	08/01/18 01:36 AM
m,p-Xylene	ND		2.0	µg/L	1	08/01/18 01:36 AM
Methylene chloride	ND		5.0	µg/L	1	08/01/18 01:36 AM
o-Xylene	ND		1.0	µg/L	1	08/01/18 01:36 AM
Styrene	ND		1.0	µg/L	1	08/01/18 01:36 AM
Tetrachloroethene	ND		1.0	µg/L	1	08/01/18 01:36 AM
Toluene	ND		1.0	µg/L	1	08/01/18 01:36 AM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	08/01/18 01:36 AM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	08/01/18 01:36 AM
Trichloroethene	ND		1.0	µg/L	1	08/01/18 01:36 AM
Vinyl chloride	ND		1.0	µg/L	1	08/01/18 01:36 AM
Xylenes, Total	ND		3.0	µg/L	1	08/01/18 01:36 AM
Surr: 1,2-Dichloroethane-d4	108		75-120	%REC	1	08/01/18 01:36 AM
Surr: 4-Bromofluorobenzene	97.8		80-110	%REC	1	08/01/18 01:36 AM
Surr: Dibromofluoromethane	100		85-115	%REC	1	08/01/18 01:36 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 06-Aug-18

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.15)
Sample ID: ATR-OW3(35)-G072418-0925
Collection Date: 07/24/18 09:25 AM

Work Order: 18071884
Lab ID: 18071884-28
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: Toluene-d8</i>	97.1		85-110	%REC	1	08/01/18 01:36 AM
ORGANIC CARBON, TOTAL			SW9060A			Analyst: JJG
Organic Carbon, Total	3.6		0.50	mg/L	1	07/31/18 04:57 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040.15)

Work Order: 18071884

Sample ID: ATR-OW3(55)-G072418-1050

Lab ID: 18071884-29

Collection Date: 07/24/18 10:50 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260C		Analyst: WH	
1,1,1-Trichloroethane	ND		1.0	µg/L	1	08/01/18 06:06 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	08/01/18 06:06 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	08/01/18 06:06 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	08/01/18 06:06 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	08/01/18 06:06 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	08/01/18 06:06 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	08/01/18 06:06 PM
2-Butanone	38		5.0	µg/L	1	08/01/18 06:06 PM
2-Hexanone	ND		5.0	µg/L	1	08/01/18 06:06 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	08/01/18 06:06 PM
Acetone	ND		10	µg/L	1	08/01/18 06:06 PM
Benzene	ND		1.0	µg/L	1	08/01/18 06:06 PM
Bromodichloromethane	ND		1.0	µg/L	1	08/01/18 06:06 PM
Bromoform	ND		1.0	µg/L	1	08/01/18 06:06 PM
Bromomethane	ND		1.0	µg/L	1	08/01/18 06:06 PM
Carbon disulfide	ND		1.0	µg/L	1	08/01/18 06:06 PM
Carbon tetrachloride	ND		1.0	µg/L	1	08/01/18 06:06 PM
Chlorobenzene	ND		1.0	µg/L	1	08/01/18 06:06 PM
Chloroethane	ND		1.0	µg/L	1	08/01/18 06:06 PM
Chloroform	ND		1.0	µg/L	1	08/01/18 06:06 PM
Chloromethane	ND		1.0	µg/L	1	08/01/18 06:06 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	08/01/18 06:06 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	08/01/18 06:06 PM
Dibromochloromethane	ND		1.0	µg/L	1	08/01/18 06:06 PM
Ethylbenzene	ND		1.0	µg/L	1	08/01/18 06:06 PM
m,p-Xylene	ND		2.0	µg/L	1	08/01/18 06:06 PM
Methylene chloride	ND		5.0	µg/L	1	08/01/18 06:06 PM
o-Xylene	ND		1.0	µg/L	1	08/01/18 06:06 PM
Styrene	ND		1.0	µg/L	1	08/01/18 06:06 PM
Tetrachloroethene	ND		1.0	µg/L	1	08/01/18 06:06 PM
Toluene	ND		1.0	µg/L	1	08/01/18 06:06 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	08/01/18 06:06 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	08/01/18 06:06 PM
Trichloroethene	ND		1.0	µg/L	1	08/01/18 06:06 PM
Vinyl chloride	ND		1.0	µg/L	1	08/01/18 06:06 PM
Xylenes, Total	ND		3.0	µg/L	1	08/01/18 06:06 PM
Surr: 1,2-Dichloroethane-d4	97.8		75-120	%REC	1	08/01/18 06:06 PM
Surr: 4-Bromofluorobenzene	99.8		80-110	%REC	1	08/01/18 06:06 PM
Surr: Dibromofluoromethane	101		85-115	%REC	1	08/01/18 06:06 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 06-Aug-18

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040.15)

Work Order: 18071884

Sample ID: ATR-OW3(55)-G072418-1050

Lab ID: 18071884-29

Collection Date: 07/24/18 10:50 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: Toluene-d8</i>	99.1		85-110	%REC	1	08/01/18 06:06 PM
ORGANIC CARBON, TOTAL			SW9060A			Analyst: JJG
Organic Carbon, Total	120		50	mg/L	100	07/31/18 04:57 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040.15)

Work Order: 18071884

Sample ID: ATR-MW20(35)-G072418-1455

Lab ID: 18071884-30

Collection Date: 07/24/18 02:55 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260C			Analyst: LSY
1,1,1-Trichloroethane	ND		1.0	µg/L	1	08/01/18 02:09 AM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	08/01/18 02:09 AM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	08/01/18 02:09 AM
1,1-Dichloroethane	ND		1.0	µg/L	1	08/01/18 02:09 AM
1,1-Dichloroethene	ND		1.0	µg/L	1	08/01/18 02:09 AM
1,2-Dichloroethane	ND		1.0	µg/L	1	08/01/18 02:09 AM
1,2-Dichloropropane	ND		1.0	µg/L	1	08/01/18 02:09 AM
2-Butanone	ND		5.0	µg/L	1	08/01/18 02:09 AM
2-Hexanone	ND		5.0	µg/L	1	08/01/18 02:09 AM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	08/01/18 02:09 AM
Acetone	ND		10	µg/L	1	08/01/18 02:09 AM
Benzene	ND		1.0	µg/L	1	08/01/18 02:09 AM
Bromodichloromethane	ND		1.0	µg/L	1	08/01/18 02:09 AM
Bromoform	ND		1.0	µg/L	1	08/01/18 02:09 AM
Bromomethane	ND		1.0	µg/L	1	08/01/18 02:09 AM
Carbon disulfide	ND		1.0	µg/L	1	08/01/18 02:09 AM
Carbon tetrachloride	ND		1.0	µg/L	1	08/01/18 02:09 AM
Chlorobenzene	ND		1.0	µg/L	1	08/01/18 02:09 AM
Chloroethane	ND		1.0	µg/L	1	08/01/18 02:09 AM
Chloroform	ND		1.0	µg/L	1	08/01/18 02:09 AM
Chloromethane	ND		1.0	µg/L	1	08/01/18 02:09 AM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	08/01/18 02:09 AM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	08/01/18 02:09 AM
Dibromochloromethane	ND		1.0	µg/L	1	08/01/18 02:09 AM
Ethylbenzene	ND		1.0	µg/L	1	08/01/18 02:09 AM
m,p-Xylene	ND		2.0	µg/L	1	08/01/18 02:09 AM
Methylene chloride	ND		5.0	µg/L	1	08/01/18 02:09 AM
o-Xylene	ND		1.0	µg/L	1	08/01/18 02:09 AM
Styrene	ND		1.0	µg/L	1	08/01/18 02:09 AM
Tetrachloroethene	ND		1.0	µg/L	1	08/01/18 02:09 AM
Toluene	ND		1.0	µg/L	1	08/01/18 02:09 AM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	08/01/18 02:09 AM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	08/01/18 02:09 AM
Trichloroethene	ND		1.0	µg/L	1	08/01/18 02:09 AM
Vinyl chloride	ND		1.0	µg/L	1	08/01/18 02:09 AM
Xylenes, Total	ND		3.0	µg/L	1	08/01/18 02:09 AM
Surr: 1,2-Dichloroethane-d4	105		75-120	%REC	1	08/01/18 02:09 AM
Surr: 4-Bromofluorobenzene	95.8		80-110	%REC	1	08/01/18 02:09 AM
Surr: Dibromofluoromethane	101		85-115	%REC	1	08/01/18 02:09 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 06-Aug-18

Client: Wood Environment & Infrastructure Solutions, Inc.**Project:** TFS Rochester (3359-15-1040.15)**Work Order:** 18071884**Sample ID:** ATR-MW20(35)-G072418-1455**Lab ID:** 18071884-30**Collection Date:** 07/24/18 02:55 PM**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: Toluene-d8</i>	97.4		85-110	%REC	1	08/01/18 02:09 AM
ORGANIC CARBON, TOTAL			SW9060A			Analyst: JJG
Organic Carbon, Total	5.4		0.50	mg/L	1	08/02/18 01:31 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.15)
Sample ID: ATR-MW20(51)-G0724718-1615
Collection Date: 07/24/18 04:15 PM

Work Order: 18071884
Lab ID: 18071884-31
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS

SW8260C

Analyst: **LSY**

1,1,1-Trichloroethane	ND		1.0	µg/L	1	08/01/18 02:25 AM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	08/01/18 02:25 AM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	08/01/18 02:25 AM
1,1-Dichloroethane	ND		1.0	µg/L	1	08/01/18 02:25 AM
1,1-Dichloroethene	ND		1.0	µg/L	1	08/01/18 02:25 AM
1,2-Dichloroethane	ND		1.0	µg/L	1	08/01/18 02:25 AM
1,2-Dichloropropane	ND		1.0	µg/L	1	08/01/18 02:25 AM
2-Butanone	ND		5.0	µg/L	1	08/01/18 02:25 AM
2-Hexanone	ND		5.0	µg/L	1	08/01/18 02:25 AM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	08/01/18 02:25 AM
Acetone	ND		10	µg/L	1	08/01/18 02:25 AM
Benzene	ND		1.0	µg/L	1	08/01/18 02:25 AM
Bromodichloromethane	ND		1.0	µg/L	1	08/01/18 02:25 AM
Bromoform	ND		1.0	µg/L	1	08/01/18 02:25 AM
Bromomethane	ND		1.0	µg/L	1	08/01/18 02:25 AM
Carbon disulfide	ND		1.0	µg/L	1	08/01/18 02:25 AM
Carbon tetrachloride	ND		1.0	µg/L	1	08/01/18 02:25 AM
Chlorobenzene	ND		1.0	µg/L	1	08/01/18 02:25 AM
Chloroethane	ND		1.0	µg/L	1	08/01/18 02:25 AM
Chloroform	ND		1.0	µg/L	1	08/01/18 02:25 AM
Chloromethane	ND		1.0	µg/L	1	08/01/18 02:25 AM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	08/01/18 02:25 AM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	08/01/18 02:25 AM
Dibromochloromethane	ND		1.0	µg/L	1	08/01/18 02:25 AM
Ethylbenzene	ND		1.0	µg/L	1	08/01/18 02:25 AM
m,p-Xylene	ND		2.0	µg/L	1	08/01/18 02:25 AM
Methylene chloride	ND		5.0	µg/L	1	08/01/18 02:25 AM
o-Xylene	ND		1.0	µg/L	1	08/01/18 02:25 AM
Styrene	ND		1.0	µg/L	1	08/01/18 02:25 AM
Tetrachloroethene	ND		1.0	µg/L	1	08/01/18 02:25 AM
Toluene	ND		1.0	µg/L	1	08/01/18 02:25 AM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	08/01/18 02:25 AM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	08/01/18 02:25 AM
Trichloroethene	ND		1.0	µg/L	1	08/01/18 02:25 AM
Vinyl chloride	ND		1.0	µg/L	1	08/01/18 02:25 AM
Xylenes, Total	ND		3.0	µg/L	1	08/01/18 02:25 AM
Surr: 1,2-Dichloroethane-d4	106		75-120	%REC	1	08/01/18 02:25 AM
Surr: 4-Bromofluorobenzene	96.3		80-110	%REC	1	08/01/18 02:25 AM
Surr: Dibromofluoromethane	101		85-115	%REC	1	08/01/18 02:25 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 06-Aug-18

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040.15)

Work Order: 18071884

Sample ID: ATR-MW20(51)-G0724718-1615

Lab ID: 18071884-31

Collection Date: 07/24/18 04:15 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: Toluene-d8</i>	96.2		85-110	%REC	1	08/01/18 02:25 AM
ORGANIC CARBON, TOTAL			SW9060A			Analyst: JJG
Organic Carbon, Total	4.2		0.50	mg/L	1	08/03/18 02:05 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040.15)

Work Order: 18071884

Sample ID: ATR-MW72(32)-G072518

Lab ID: 18071884-32

Collection Date: 07/25/18 10:25 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260C			Analyst: WH
1,1,1-Trichloroethane	ND		1.0	µg/L	1	08/02/18 11:38 AM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	08/02/18 11:38 AM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	08/02/18 11:38 AM
1,1-Dichloroethane	ND		1.0	µg/L	1	08/02/18 11:38 AM
1,1-Dichloroethene	ND		1.0	µg/L	1	08/02/18 11:38 AM
1,2-Dichloroethane	ND		1.0	µg/L	1	08/02/18 11:38 AM
1,2-Dichloropropane	ND		1.0	µg/L	1	08/02/18 11:38 AM
2-Butanone	18		5.0	µg/L	1	08/02/18 11:38 AM
2-Hexanone	ND		5.0	µg/L	1	08/02/18 11:38 AM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	08/02/18 11:38 AM
Acetone	20		10	µg/L	1	08/02/18 11:38 AM
Benzene	ND		1.0	µg/L	1	08/02/18 11:38 AM
Bromodichloromethane	ND		1.0	µg/L	1	08/02/18 11:38 AM
Bromoform	ND		1.0	µg/L	1	08/02/18 11:38 AM
Bromomethane	ND		1.0	µg/L	1	08/02/18 11:38 AM
Carbon disulfide	ND		1.0	µg/L	1	08/02/18 11:38 AM
Carbon tetrachloride	ND		1.0	µg/L	1	08/02/18 11:38 AM
Chlorobenzene	ND		1.0	µg/L	1	08/02/18 11:38 AM
Chloroethane	ND		1.0	µg/L	1	08/02/18 11:38 AM
Chloroform	ND		1.0	µg/L	1	08/02/18 11:38 AM
Chloromethane	ND		1.0	µg/L	1	08/02/18 11:38 AM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	08/02/18 11:38 AM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	08/02/18 11:38 AM
Dibromochloromethane	ND		1.0	µg/L	1	08/02/18 11:38 AM
Ethylbenzene	ND		1.0	µg/L	1	08/02/18 11:38 AM
m,p-Xylene	ND		2.0	µg/L	1	08/02/18 11:38 AM
Methylene chloride	ND		5.0	µg/L	1	08/02/18 11:38 AM
o-Xylene	ND		1.0	µg/L	1	08/02/18 11:38 AM
Styrene	ND		1.0	µg/L	1	08/02/18 11:38 AM
Tetrachloroethene	ND		1.0	µg/L	1	08/02/18 11:38 AM
Toluene	2.3		1.0	µg/L	1	08/02/18 11:38 AM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	08/02/18 11:38 AM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	08/02/18 11:38 AM
Trichloroethene	ND		1.0	µg/L	1	08/02/18 11:38 AM
Vinyl chloride	ND		1.0	µg/L	1	08/02/18 11:38 AM
Xylenes, Total	ND		3.0	µg/L	1	08/02/18 11:38 AM
Surr: 1,2-Dichloroethane-d4	93.2		75-120	%REC	1	08/02/18 11:38 AM
Surr: 4-Bromofluorobenzene	94.3		80-110	%REC	1	08/02/18 11:38 AM
Surr: Dibromofluoromethane	97.4		85-115	%REC	1	08/02/18 11:38 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 06-Aug-18

Client: Wood Environment & Infrastructure Solutions, Inc.**Project:** TFS Rochester (3359-15-1040.15)**Work Order:** 18071884**Sample ID:** ATR-MW72(32)-G072518**Lab ID:** 18071884-32**Collection Date:** 07/25/18 10:25 AM**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: Toluene-d8</i>	96.8		85-110	%REC	1	08/02/18 11:38 AM
ORGANIC CARBON, TOTAL			SW9060A			Analyst: JJG
Organic Carbon, Total	63		50	mg/L	100	08/02/18 01:31 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040.15)

Work Order: 18071884

Sample ID: ATR-MW71(33)-G072518

Lab ID: 18071884-33

Collection Date: 07/25/18 11:30 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260C		Analyst: WH	
1,1,1-Trichloroethane	ND		10	µg/L	10	08/02/18 01:03 PM
1,1,2,2-Tetrachloroethane	ND		10	µg/L	10	08/02/18 01:03 PM
1,1,2-Trichloroethane	ND		10	µg/L	10	08/02/18 01:03 PM
1,1-Dichloroethane	ND		10	µg/L	10	08/02/18 01:03 PM
1,1-Dichloroethene	ND		10	µg/L	10	08/02/18 01:03 PM
1,2-Dichloroethane	ND		10	µg/L	10	08/02/18 01:03 PM
1,2-Dichloropropane	ND		10	µg/L	10	08/02/18 01:03 PM
2-Butanone	ND		50	µg/L	10	08/02/18 01:03 PM
2-Hexanone	ND		50	µg/L	10	08/02/18 01:03 PM
4-Methyl-2-pentanone	ND		10	µg/L	10	08/02/18 01:03 PM
Acetone	ND		100	µg/L	10	08/02/18 01:03 PM
Benzene	ND		10	µg/L	10	08/02/18 01:03 PM
Bromodichloromethane	ND		10	µg/L	10	08/02/18 01:03 PM
Bromoform	ND		10	µg/L	10	08/02/18 01:03 PM
Bromomethane	ND		10	µg/L	10	08/02/18 01:03 PM
Carbon disulfide	ND		10	µg/L	10	08/02/18 01:03 PM
Carbon tetrachloride	ND		10	µg/L	10	08/02/18 01:03 PM
Chlorobenzene	ND		10	µg/L	10	08/02/18 01:03 PM
Chloroethane	ND		10	µg/L	10	08/02/18 01:03 PM
Chloroform	ND		10	µg/L	10	08/02/18 01:03 PM
Chloromethane	ND		10	µg/L	10	08/02/18 01:03 PM
cis-1,2-Dichloroethene	ND		10	µg/L	10	08/02/18 01:03 PM
cis-1,3-Dichloropropene	ND		10	µg/L	10	08/02/18 01:03 PM
Dibromochloromethane	ND		10	µg/L	10	08/02/18 01:03 PM
Ethylbenzene	ND		10	µg/L	10	08/02/18 01:03 PM
m,p-Xylene	ND		20	µg/L	10	08/02/18 01:03 PM
Methylene chloride	ND		50	µg/L	10	08/02/18 01:03 PM
o-Xylene	ND		10	µg/L	10	08/02/18 01:03 PM
Styrene	ND		10	µg/L	10	08/02/18 01:03 PM
Tetrachloroethene	ND		10	µg/L	10	08/02/18 01:03 PM
Toluene	39		10	µg/L	10	08/02/18 01:03 PM
trans-1,2-Dichloroethene	ND		10	µg/L	10	08/02/18 01:03 PM
trans-1,3-Dichloropropene	ND		10	µg/L	10	08/02/18 01:03 PM
Trichloroethene	ND		10	µg/L	10	08/02/18 01:03 PM
Vinyl chloride	3,000		100	µg/L	100	08/01/18 02:59 AM
Xylenes, Total	ND		30	µg/L	10	08/02/18 01:03 PM
Surr: 1,2-Dichloroethane-d4	104		75-120	%REC	100	08/01/18 02:59 AM
Surr: 1,2-Dichloroethane-d4	95.3		75-120	%REC	10	08/02/18 01:03 PM
Surr: 4-Bromofluorobenzene	97.2		80-110	%REC	100	08/01/18 02:59 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 06-Aug-18

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040.15)

Work Order: 18071884

Sample ID: ATR-MW71(33)-G072518

Lab ID: 18071884-33

Collection Date: 07/25/18 11:30 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: 4-Bromofluorobenzene	96.7		80-110	%REC	10	08/02/18 01:03 PM
Surr: Dibromofluoromethane	97.4		85-115	%REC	100	08/01/18 02:59 AM
Surr: Dibromofluoromethane	99.2		85-115	%REC	10	08/02/18 01:03 PM
Surr: Toluene-d8	97.4		85-110	%REC	10	08/02/18 01:03 PM
Surr: Toluene-d8	97.6		85-110	%REC	100	08/01/18 02:59 AM
ORGANIC CARBON, TOTAL			SW9060A			Analyst: JJG
Organic Carbon, Total	960		120	mg/L	250	08/03/18 02:05 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.15)
Sample ID: ATR-MW67(30)-G072518
Collection Date: 07/25/18 12:25 PM

Work Order: 18071884
Lab ID: 18071884-34
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260C		Analyst: WH	
1,1,1-Trichloroethane	ND		1.0	µg/L	1	08/01/18 06:21 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	08/01/18 06:21 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	08/01/18 06:21 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	08/01/18 06:21 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	08/01/18 06:21 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	08/01/18 06:21 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	08/01/18 06:21 PM
2-Butanone	6.5		5.0	µg/L	1	08/01/18 06:21 PM
2-Hexanone	ND		5.0	µg/L	1	08/01/18 06:21 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	08/01/18 06:21 PM
Acetone	15		10	µg/L	1	08/01/18 06:21 PM
Benzene	ND		1.0	µg/L	1	08/01/18 06:21 PM
Bromodichloromethane	ND		1.0	µg/L	1	08/01/18 06:21 PM
Bromoform	ND		1.0	µg/L	1	08/01/18 06:21 PM
Bromomethane	ND		1.0	µg/L	1	08/01/18 06:21 PM
Carbon disulfide	ND		1.0	µg/L	1	08/01/18 06:21 PM
Carbon tetrachloride	ND		1.0	µg/L	1	08/01/18 06:21 PM
Chlorobenzene	ND		1.0	µg/L	1	08/01/18 06:21 PM
Chloroethane	ND		1.0	µg/L	1	08/01/18 06:21 PM
Chloroform	ND		1.0	µg/L	1	08/01/18 06:21 PM
Chloromethane	ND		1.0	µg/L	1	08/01/18 06:21 PM
cis-1,2-Dichloroethene	5.7		1.0	µg/L	1	08/01/18 06:21 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	08/01/18 06:21 PM
Dibromochloromethane	ND		1.0	µg/L	1	08/01/18 06:21 PM
Ethylbenzene	ND		1.0	µg/L	1	08/01/18 06:21 PM
m,p-Xylene	ND		2.0	µg/L	1	08/01/18 06:21 PM
Methylene chloride	ND		5.0	µg/L	1	08/01/18 06:21 PM
o-Xylene	ND		1.0	µg/L	1	08/01/18 06:21 PM
Styrene	ND		1.0	µg/L	1	08/01/18 06:21 PM
Tetrachloroethene	ND		1.0	µg/L	1	08/01/18 06:21 PM
Toluene	ND		1.0	µg/L	1	08/01/18 06:21 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	08/01/18 06:21 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	08/01/18 06:21 PM
Trichloroethene	ND		1.0	µg/L	1	08/01/18 06:21 PM
Vinyl chloride	2.4		1.0	µg/L	1	08/01/18 06:21 PM
Xylenes, Total	ND		3.0	µg/L	1	08/01/18 06:21 PM
Surr: 1,2-Dichloroethane-d4	99.5		75-120	%REC	1	08/01/18 06:21 PM
Surr: 4-Bromofluorobenzene	96.6		80-110	%REC	1	08/01/18 06:21 PM
Surr: Dibromofluoromethane	102		85-115	%REC	1	08/01/18 06:21 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 06-Aug-18

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040.15)

Work Order: 18071884

Sample ID: ATR-MW67(30)-G072518

Lab ID: 18071884-34

Collection Date: 07/25/18 12:25 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: Toluene-d8</i>	99.0		85-110	%REC	1	08/01/18 06:21 PM
ORGANIC CARBON, TOTAL			SW9060A			Analyst: JJG
Organic Carbon, Total	99		10	mg/L	20	08/02/18 01:31 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 06-Aug-18

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040.15)

Work Order: 18071884

Sample ID: ATR-MW68(32)-G072518

Lab ID: 18071884-35

Collection Date: 07/25/18 01:25 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260C			Analyst: WH
1,1,1-Trichloroethane	ND		5.0	µg/L	5	08/01/18 07:36 PM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	5	08/01/18 07:36 PM
1,1,2-Trichloroethane	ND		5.0	µg/L	5	08/01/18 07:36 PM
1,1-Dichloroethane	ND		5.0	µg/L	5	08/01/18 07:36 PM
1,1-Dichloroethene	ND		5.0	µg/L	5	08/01/18 07:36 PM
1,2-Dichloroethane	ND		5.0	µg/L	5	08/01/18 07:36 PM
1,2-Dichloropropane	ND		5.0	µg/L	5	08/01/18 07:36 PM
2-Butanone	53		25	µg/L	5	08/01/18 07:36 PM
2-Hexanone	ND		25	µg/L	5	08/01/18 07:36 PM
4-Methyl-2-pentanone	ND		5.0	µg/L	5	08/01/18 07:36 PM
Acetone	ND		50	µg/L	5	08/01/18 07:36 PM
Benzene	ND		5.0	µg/L	5	08/01/18 07:36 PM
Bromodichloromethane	ND		5.0	µg/L	5	08/01/18 07:36 PM
Bromoform	ND		5.0	µg/L	5	08/01/18 07:36 PM
Bromomethane	ND		5.0	µg/L	5	08/01/18 07:36 PM
Carbon disulfide	ND		5.0	µg/L	5	08/01/18 07:36 PM
Carbon tetrachloride	ND		5.0	µg/L	5	08/01/18 07:36 PM
Chlorobenzene	ND		5.0	µg/L	5	08/01/18 07:36 PM
Chloroethane	ND		5.0	µg/L	5	08/01/18 07:36 PM
Chloroform	ND		5.0	µg/L	5	08/01/18 07:36 PM
Chloromethane	ND		5.0	µg/L	5	08/01/18 07:36 PM
cis-1,2-Dichloroethene	240		5.0	µg/L	5	08/01/18 07:36 PM
cis-1,3-Dichloropropene	ND		5.0	µg/L	5	08/01/18 07:36 PM
Dibromochloromethane	ND		5.0	µg/L	5	08/01/18 07:36 PM
Ethylbenzene	ND		5.0	µg/L	5	08/01/18 07:36 PM
m,p-Xylene	ND		10	µg/L	5	08/01/18 07:36 PM
Methylene chloride	ND		25	µg/L	5	08/01/18 07:36 PM
o-Xylene	ND		5.0	µg/L	5	08/01/18 07:36 PM
Styrene	ND		5.0	µg/L	5	08/01/18 07:36 PM
Tetrachloroethene	ND		5.0	µg/L	5	08/01/18 07:36 PM
Toluene	ND		5.0	µg/L	5	08/01/18 07:36 PM
trans-1,2-Dichloroethene	ND		5.0	µg/L	5	08/01/18 07:36 PM
trans-1,3-Dichloropropene	ND		5.0	µg/L	5	08/01/18 07:36 PM
Trichloroethene	ND		5.0	µg/L	5	08/01/18 07:36 PM
Vinyl chloride	1,000		25	µg/L	25	08/02/18 12:17 PM
Xylenes, Total	ND		15	µg/L	5	08/01/18 07:36 PM
Surr: 1,2-Dichloroethane-d4	99.6		75-120	%REC	5	08/01/18 07:36 PM
Surr: 1,2-Dichloroethane-d4	96.6		75-120	%REC	25	08/02/18 12:17 PM
Surr: 4-Bromofluorobenzene	95.1		80-110	%REC	5	08/01/18 07:36 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 06-Aug-18

Client: Wood Environment & Infrastructure Solutions, Inc.**Project:** TFS Rochester (3359-15-1040.15)**Work Order:** 18071884**Sample ID:** ATR-MW68(32)-G072518**Lab ID:** 18071884-35**Collection Date:** 07/25/18 01:25 PM**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: 4-Bromofluorobenzene	95.5		80-110	%REC	25	08/02/18 12:17 PM
Surr: Dibromofluoromethane	101		85-115	%REC	5	08/01/18 07:36 PM
Surr: Dibromofluoromethane	100		85-115	%REC	25	08/02/18 12:17 PM
Surr: Toluene-d8	97.6		85-110	%REC	25	08/02/18 12:17 PM
Surr: Toluene-d8	95.4		85-110	%REC	5	08/01/18 07:36 PM
ORGANIC CARBON, TOTAL			SW9060A			Analyst: JJG
Organic Carbon, Total	350		50	mg/L	100	08/02/18 01:31 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.15)
Sample ID: ATR-MW77(41)-G072518
Collection Date: 07/25/18 03:40 PM

Work Order: 18071884
Lab ID: 18071884-36
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260C		Analyst: LSY	
1,1,1-Trichloroethane	ND		1.0	µg/L	1	08/01/18 03:49 AM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	08/01/18 03:49 AM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	08/01/18 03:49 AM
1,1-Dichloroethane	ND		1.0	µg/L	1	08/01/18 03:49 AM
1,1-Dichloroethene	ND		1.0	µg/L	1	08/01/18 03:49 AM
1,2-Dichloroethane	ND		1.0	µg/L	1	08/01/18 03:49 AM
1,2-Dichloropropane	ND		1.0	µg/L	1	08/01/18 03:49 AM
2-Butanone	5.5		5.0	µg/L	1	08/01/18 03:49 AM
2-Hexanone	ND		5.0	µg/L	1	08/01/18 03:49 AM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	08/01/18 03:49 AM
Acetone	ND		10	µg/L	1	08/01/18 03:49 AM
Benzene	ND		1.0	µg/L	1	08/01/18 03:49 AM
Bromodichloromethane	ND		1.0	µg/L	1	08/01/18 03:49 AM
Bromoform	ND		1.0	µg/L	1	08/01/18 03:49 AM
Bromomethane	ND		1.0	µg/L	1	08/01/18 03:49 AM
Carbon disulfide	ND		1.0	µg/L	1	08/01/18 03:49 AM
Carbon tetrachloride	ND		1.0	µg/L	1	08/01/18 03:49 AM
Chlorobenzene	ND		1.0	µg/L	1	08/01/18 03:49 AM
Chloroethane	ND		1.0	µg/L	1	08/01/18 03:49 AM
Chloroform	ND		1.0	µg/L	1	08/01/18 03:49 AM
Chloromethane	ND		1.0	µg/L	1	08/01/18 03:49 AM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	08/01/18 03:49 AM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	08/01/18 03:49 AM
Dibromochloromethane	ND		1.0	µg/L	1	08/01/18 03:49 AM
Ethylbenzene	ND		1.0	µg/L	1	08/01/18 03:49 AM
m,p-Xylene	ND		2.0	µg/L	1	08/01/18 03:49 AM
Methylene chloride	ND		5.0	µg/L	1	08/01/18 03:49 AM
o-Xylene	ND		1.0	µg/L	1	08/01/18 03:49 AM
Styrene	ND		1.0	µg/L	1	08/01/18 03:49 AM
Tetrachloroethene	ND		1.0	µg/L	1	08/01/18 03:49 AM
Toluene	ND		1.0	µg/L	1	08/01/18 03:49 AM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	08/01/18 03:49 AM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	08/01/18 03:49 AM
Trichloroethene	ND		1.0	µg/L	1	08/01/18 03:49 AM
Vinyl chloride	ND		1.0	µg/L	1	08/01/18 03:49 AM
Xylenes, Total	ND		3.0	µg/L	1	08/01/18 03:49 AM
Surr: 1,2-Dichloroethane-d4	106		75-120	%REC	1	08/01/18 03:49 AM
Surr: 4-Bromofluorobenzene	97.8		80-110	%REC	1	08/01/18 03:49 AM
Surr: Dibromofluoromethane	97.2		85-115	%REC	1	08/01/18 03:49 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 06-Aug-18

Client: Wood Environment & Infrastructure Solutions, Inc.**Project:** TFS Rochester (3359-15-1040.15)**Work Order:** 18071884**Sample ID:** ATR-MW77(41)-G072518**Lab ID:** 18071884-36**Collection Date:** 07/25/18 03:40 PM**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: Toluene-d8</i>	96.1		85-110	%REC	1	08/01/18 03:49 AM
ORGANIC CARBON, TOTAL			SW9060A			Analyst: JJG
Organic Carbon, Total	19		5.0	mg/L	10	08/02/18 01:31 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.15)
Sample ID: ATR-MW78(35)-G072518
Collection Date: 07/25/18 02:05 PM

Work Order: 18071884
Lab ID: 18071884-37
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
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VOLATILE ORGANIC COMPOUNDS

SW8260C

Analyst: **WH**

1,1,1-Trichloroethane	ND		1.0	µg/L	1	08/01/18 07:06 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	08/01/18 07:06 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	08/01/18 07:06 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	08/01/18 07:06 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	08/01/18 07:06 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	08/01/18 07:06 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	08/01/18 07:06 PM
2-Butanone	ND		5.0	µg/L	1	08/01/18 07:06 PM
2-Hexanone	ND		5.0	µg/L	1	08/01/18 07:06 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	08/01/18 07:06 PM
Acetone	ND		10	µg/L	1	08/01/18 07:06 PM
Benzene	ND		1.0	µg/L	1	08/01/18 07:06 PM
Bromodichloromethane	ND		1.0	µg/L	1	08/01/18 07:06 PM
Bromoform	ND		1.0	µg/L	1	08/01/18 07:06 PM
Bromomethane	ND		1.0	µg/L	1	08/01/18 07:06 PM
Carbon disulfide	ND		1.0	µg/L	1	08/01/18 07:06 PM
Carbon tetrachloride	ND		1.0	µg/L	1	08/01/18 07:06 PM
Chlorobenzene	ND		1.0	µg/L	1	08/01/18 07:06 PM
Chloroethane	ND		1.0	µg/L	1	08/01/18 07:06 PM
Chloroform	ND		1.0	µg/L	1	08/01/18 07:06 PM
Chloromethane	ND		1.0	µg/L	1	08/01/18 07:06 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	08/01/18 07:06 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	08/01/18 07:06 PM
Dibromochloromethane	ND		1.0	µg/L	1	08/01/18 07:06 PM
Ethylbenzene	ND		1.0	µg/L	1	08/01/18 07:06 PM
m,p-Xylene	ND		2.0	µg/L	1	08/01/18 07:06 PM
Methylene chloride	ND		5.0	µg/L	1	08/01/18 07:06 PM
o-Xylene	ND		1.0	µg/L	1	08/01/18 07:06 PM
Styrene	ND		1.0	µg/L	1	08/01/18 07:06 PM
Tetrachloroethene	ND		1.0	µg/L	1	08/01/18 07:06 PM
Toluene	ND		1.0	µg/L	1	08/01/18 07:06 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	08/01/18 07:06 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	08/01/18 07:06 PM
Trichloroethene	ND		1.0	µg/L	1	08/01/18 07:06 PM
Vinyl chloride	ND		1.0	µg/L	1	08/01/18 07:06 PM
Xylenes, Total	ND		3.0	µg/L	1	08/01/18 07:06 PM
<i>Surr: 1,2-Dichloroethane-d4</i>	94.3		75-120	%REC	1	08/01/18 07:06 PM
<i>Surr: 4-Bromofluorobenzene</i>	95.4		80-110	%REC	1	08/01/18 07:06 PM
<i>Surr: Dibromofluoromethane</i>	100		85-115	%REC	1	08/01/18 07:06 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 06-Aug-18

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040.15)

Work Order: 18071884

Sample ID: ATR-MW78(35)-G072518

Lab ID: 18071884-37

Collection Date: 07/25/18 02:05 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: Toluene-d8</i>	98.0		85-110	%REC	1	08/01/18 07:06 PM
ORGANIC CARBON, TOTAL			SW9060A			Analyst: JJG
Organic Carbon, Total	0.59		0.50	mg/L	1	08/03/18 02:05 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040.15)

Work Order: 18071884

Sample ID: ATR-MW78(35)-G072518-EB

Lab ID: 18071884-38

Collection Date: 07/25/18 02:35 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260C		Analyst: WH	
1,1,1-Trichloroethane	ND		1.0	µg/L	1	08/01/18 07:21 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	08/01/18 07:21 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	08/01/18 07:21 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	08/01/18 07:21 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	08/01/18 07:21 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	08/01/18 07:21 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	08/01/18 07:21 PM
2-Butanone	ND		5.0	µg/L	1	08/01/18 07:21 PM
2-Hexanone	ND		5.0	µg/L	1	08/01/18 07:21 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	08/01/18 07:21 PM
Acetone	ND		10	µg/L	1	08/01/18 07:21 PM
Benzene	ND		1.0	µg/L	1	08/01/18 07:21 PM
Bromodichloromethane	ND		1.0	µg/L	1	08/01/18 07:21 PM
Bromoform	ND		1.0	µg/L	1	08/01/18 07:21 PM
Bromomethane	ND		1.0	µg/L	1	08/01/18 07:21 PM
Carbon disulfide	ND		1.0	µg/L	1	08/01/18 07:21 PM
Carbon tetrachloride	ND		1.0	µg/L	1	08/01/18 07:21 PM
Chlorobenzene	ND		1.0	µg/L	1	08/01/18 07:21 PM
Chloroethane	ND		1.0	µg/L	1	08/01/18 07:21 PM
Chloroform	1.2		1.0	µg/L	1	08/01/18 07:21 PM
Chloromethane	ND		1.0	µg/L	1	08/01/18 07:21 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	08/01/18 07:21 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	08/01/18 07:21 PM
Dibromochloromethane	ND		1.0	µg/L	1	08/01/18 07:21 PM
Ethylbenzene	ND		1.0	µg/L	1	08/01/18 07:21 PM
m,p-Xylene	ND		2.0	µg/L	1	08/01/18 07:21 PM
Methylene chloride	ND		5.0	µg/L	1	08/01/18 07:21 PM
o-Xylene	ND		1.0	µg/L	1	08/01/18 07:21 PM
Styrene	ND		1.0	µg/L	1	08/01/18 07:21 PM
Tetrachloroethene	ND		1.0	µg/L	1	08/01/18 07:21 PM
Toluene	ND		1.0	µg/L	1	08/01/18 07:21 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	08/01/18 07:21 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	08/01/18 07:21 PM
Trichloroethene	ND		1.0	µg/L	1	08/01/18 07:21 PM
Vinyl chloride	ND		1.0	µg/L	1	08/01/18 07:21 PM
Xylenes, Total	ND		3.0	µg/L	1	08/01/18 07:21 PM
Surr: 1,2-Dichloroethane-d4	93.8		75-120	%REC	1	08/01/18 07:21 PM
Surr: 4-Bromofluorobenzene	94.4		80-110	%REC	1	08/01/18 07:21 PM
Surr: Dibromofluoromethane	99.8		85-115	%REC	1	08/01/18 07:21 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 06-Aug-18

Client: Wood Environment & Infrastructure Solutions, Inc.**Project:** TFS Rochester (3359-15-1040.15)**Work Order:** 18071884**Sample ID:** ATR-MW78(35)-G072518-EB**Lab ID:** 18071884-38**Collection Date:** 07/25/18 02:35 PM**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: Toluene-d8</i>	98.4		85-110	%REC	1	08/01/18 07:21 PM
ORGANIC CARBON, TOTAL			SW9060A			Analyst: JJG
Organic Carbon, Total	5.2		5.0	mg/L	10	08/02/18 01:31 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040.15)

Work Order: 18071884

Sample ID: ATR-MW76(30)-G072518

Lab ID: 18071884-39

Collection Date: 07/25/18 12:40 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260C			Analyst: LSY
1,1,1-Trichloroethane	ND		5.0	µg/L	5	08/01/18 04:38 AM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	5	08/01/18 04:38 AM
1,1,2-Trichloroethane	ND		5.0	µg/L	5	08/01/18 04:38 AM
1,1-Dichloroethane	ND		5.0	µg/L	5	08/01/18 04:38 AM
1,1-Dichloroethene	ND		5.0	µg/L	5	08/01/18 04:38 AM
1,2-Dichloroethane	ND		5.0	µg/L	5	08/01/18 04:38 AM
1,2-Dichloropropane	ND		5.0	µg/L	5	08/01/18 04:38 AM
2-Butanone	18		5.0	µg/L	5	08/01/18 04:38 AM
2-Hexanone	ND		25	µg/L	5	08/01/18 04:38 AM
4-Methyl-2-pentanone	ND		5.0	µg/L	5	08/01/18 04:38 AM
Acetone	18		5.0	µg/L	5	08/01/18 04:38 AM
Benzene	ND		5.0	µg/L	5	08/01/18 04:38 AM
Bromodichloromethane	ND		5.0	µg/L	5	08/01/18 04:38 AM
Bromoform	ND		5.0	µg/L	5	08/01/18 04:38 AM
Bromomethane	ND		5.0	µg/L	5	08/01/18 04:38 AM
Carbon disulfide	ND		5.0	µg/L	5	08/01/18 04:38 AM
Carbon tetrachloride	ND		5.0	µg/L	5	08/01/18 04:38 AM
Chlorobenzene	ND		5.0	µg/L	5	08/01/18 04:38 AM
Chloroethane	ND		5.0	µg/L	5	08/01/18 04:38 AM
Chloroform	ND		5.0	µg/L	5	08/01/18 04:38 AM
Chloromethane	ND		5.0	µg/L	5	08/01/18 04:38 AM
cis-1,2-Dichloroethene	36		5.0	µg/L	5	08/01/18 04:38 AM
cis-1,3-Dichloropropene	ND		5.0	µg/L	5	08/01/18 04:38 AM
Dibromochloromethane	ND		5.0	µg/L	5	08/01/18 04:38 AM
Ethylbenzene	ND		5.0	µg/L	5	08/01/18 04:38 AM
m,p-Xylene	ND		10	µg/L	5	08/01/18 04:38 AM
Methylene chloride	ND		25	µg/L	5	08/01/18 04:38 AM
o-Xylene	ND		5.0	µg/L	5	08/01/18 04:38 AM
Styrene	ND		5.0	µg/L	5	08/01/18 04:38 AM
Tetrachloroethene	ND		5.0	µg/L	5	08/01/18 04:38 AM
Toluene	ND		5.0	µg/L	5	08/01/18 04:38 AM
trans-1,2-Dichloroethene	ND		5.0	µg/L	5	08/01/18 04:38 AM
trans-1,3-Dichloropropene	ND		5.0	µg/L	5	08/01/18 04:38 AM
Trichloroethene	ND		5.0	µg/L	5	08/01/18 04:38 AM
Vinyl chloride	1,200		25	µg/L	25	08/02/18 12:33 PM
Xylenes, Total	ND		15	µg/L	5	08/01/18 04:38 AM
Surr: 1,2-Dichloroethane-d4	106		75-120	%REC	5	08/01/18 04:38 AM
Surr: 1,2-Dichloroethane-d4	96.0		75-120	%REC	25	08/02/18 12:33 PM
Surr: 4-Bromofluorobenzene	95.7		80-110	%REC	5	08/01/18 04:38 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 06-Aug-18

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040.15)

Work Order: 18071884

Sample ID: ATR-MW76(30)-G072518

Lab ID: 18071884-39

Collection Date: 07/25/18 12:40 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: 4-Bromofluorobenzene	95.7		80-110	%REC	25	08/02/18 12:33 PM
Surr: Dibromofluoromethane	98.4		85-115	%REC	5	08/01/18 04:38 AM
Surr: Dibromofluoromethane	101		85-115	%REC	25	08/02/18 12:33 PM
Surr: Toluene-d8	98.0		85-110	%REC	25	08/02/18 12:33 PM
Surr: Toluene-d8	97.0		85-110	%REC	5	08/01/18 04:38 AM
ORGANIC CARBON, TOTAL			SW9060A			Analyst: JJG
Organic Carbon, Total	390		50	mg/L	100	08/02/18 01:31 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.15)
Sample ID: ATR-MW76(30)-G072518-R
Collection Date: 07/25/18 12:40 PM

Work Order: 18071884
Lab ID: 18071884-40
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260C		Analyst: LSY	
1,1,1-Trichloroethane	ND		5.0	µg/L	5	08/01/18 04:55 AM
1,1,2,2-Tetrachloroethane	ND		5.0	µg/L	5	08/01/18 04:55 AM
1,1,2-Trichloroethane	ND		5.0	µg/L	5	08/01/18 04:55 AM
1,1-Dichloroethane	ND		5.0	µg/L	5	08/01/18 04:55 AM
1,1-Dichloroethene	ND		5.0	µg/L	5	08/01/18 04:55 AM
1,2-Dichloroethane	ND		5.0	µg/L	5	08/01/18 04:55 AM
1,2-Dichloropropane	ND		5.0	µg/L	5	08/01/18 04:55 AM
2-Butanone	17		5.0	µg/L	5	08/01/18 04:55 AM
2-Hexanone	ND		25	µg/L	5	08/01/18 04:55 AM
4-Methyl-2-pentanone	ND		5.0	µg/L	5	08/01/18 04:55 AM
Acetone	15		5.0	µg/L	5	08/01/18 04:55 AM
Benzene	ND		5.0	µg/L	5	08/01/18 04:55 AM
Bromodichloromethane	ND		5.0	µg/L	5	08/01/18 04:55 AM
Bromoform	ND		5.0	µg/L	5	08/01/18 04:55 AM
Bromomethane	ND		5.0	µg/L	5	08/01/18 04:55 AM
Carbon disulfide	ND		5.0	µg/L	5	08/01/18 04:55 AM
Carbon tetrachloride	ND		5.0	µg/L	5	08/01/18 04:55 AM
Chlorobenzene	ND		5.0	µg/L	5	08/01/18 04:55 AM
Chloroethane	ND		5.0	µg/L	5	08/01/18 04:55 AM
Chloroform	ND		5.0	µg/L	5	08/01/18 04:55 AM
Chloromethane	ND		5.0	µg/L	5	08/01/18 04:55 AM
cis-1,2-Dichloroethene	36		5.0	µg/L	5	08/01/18 04:55 AM
cis-1,3-Dichloropropene	ND		5.0	µg/L	5	08/01/18 04:55 AM
Dibromochloromethane	ND		5.0	µg/L	5	08/01/18 04:55 AM
Ethylbenzene	ND		5.0	µg/L	5	08/01/18 04:55 AM
m,p-Xylene	ND		10	µg/L	5	08/01/18 04:55 AM
Methylene chloride	ND		25	µg/L	5	08/01/18 04:55 AM
o-Xylene	ND		5.0	µg/L	5	08/01/18 04:55 AM
Styrene	ND		5.0	µg/L	5	08/01/18 04:55 AM
Tetrachloroethene	ND		5.0	µg/L	5	08/01/18 04:55 AM
Toluene	ND		5.0	µg/L	5	08/01/18 04:55 AM
trans-1,2-Dichloroethene	ND		5.0	µg/L	5	08/01/18 04:55 AM
trans-1,3-Dichloropropene	ND		5.0	µg/L	5	08/01/18 04:55 AM
Trichloroethene	ND		5.0	µg/L	5	08/01/18 04:55 AM
Vinyl chloride	1,100		25	µg/L	25	08/02/18 12:48 PM
Xylenes, Total	ND		15	µg/L	5	08/01/18 04:55 AM
Surr: 1,2-Dichloroethane-d4	105		75-120	%REC	5	08/01/18 04:55 AM
Surr: 1,2-Dichloroethane-d4	97.1		75-120	%REC	25	08/02/18 12:48 PM
Surr: 4-Bromofluorobenzene	93.7		80-110	%REC	5	08/01/18 04:55 AM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 06-Aug-18

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040.15)

Work Order: 18071884

Sample ID: ATR-MW76(30)-G072518-R

Lab ID: 18071884-40

Collection Date: 07/25/18 12:40 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
Surr: 4-Bromofluorobenzene	96.3		80-110	%REC	25	08/02/18 12:48 PM
Surr: Dibromofluoromethane	98.6		85-115	%REC	5	08/01/18 04:55 AM
Surr: Dibromofluoromethane	101		85-115	%REC	25	08/02/18 12:48 PM
Surr: Toluene-d8	99.0		85-110	%REC	25	08/02/18 12:48 PM
Surr: Toluene-d8	94.6		85-110	%REC	5	08/01/18 04:55 AM
ORGANIC CARBON, TOTAL			SW9060A			Analyst: JJG
Organic Carbon, Total	410		50	mg/L	100	08/02/18 01:31 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040.15)

Work Order: 18071884

Sample ID: ATR-MW12-G072618

Lab ID: 18071884-41

Collection Date: 07/26/18 09:10 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260C		Analyst: WH	
1,1,1-Trichloroethane	ND		1.0	µg/L	1	08/01/18 03:50 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	08/01/18 03:50 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	08/01/18 03:50 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	08/01/18 03:50 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	08/01/18 03:50 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	08/01/18 03:50 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	08/01/18 03:50 PM
2-Butanone	ND		5.0	µg/L	1	08/01/18 03:50 PM
2-Hexanone	ND		5.0	µg/L	1	08/01/18 03:50 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	08/01/18 03:50 PM
Acetone	ND		10	µg/L	1	08/01/18 03:50 PM
Benzene	ND		1.0	µg/L	1	08/01/18 03:50 PM
Bromodichloromethane	ND		1.0	µg/L	1	08/01/18 03:50 PM
Bromoform	ND		1.0	µg/L	1	08/01/18 03:50 PM
Bromomethane	ND		1.0	µg/L	1	08/01/18 03:50 PM
Carbon disulfide	ND		1.0	µg/L	1	08/01/18 03:50 PM
Carbon tetrachloride	ND		1.0	µg/L	1	08/01/18 03:50 PM
Chlorobenzene	ND		1.0	µg/L	1	08/01/18 03:50 PM
Chloroethane	ND		1.0	µg/L	1	08/01/18 03:50 PM
Chloroform	ND		1.0	µg/L	1	08/01/18 03:50 PM
Chloromethane	ND		1.0	µg/L	1	08/01/18 03:50 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	08/01/18 03:50 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	08/01/18 03:50 PM
Dibromochloromethane	ND		1.0	µg/L	1	08/01/18 03:50 PM
Ethylbenzene	ND		1.0	µg/L	1	08/01/18 03:50 PM
m,p-Xylene	ND		2.0	µg/L	1	08/01/18 03:50 PM
Methylene chloride	ND		5.0	µg/L	1	08/01/18 03:50 PM
o-Xylene	ND		1.0	µg/L	1	08/01/18 03:50 PM
Styrene	ND		1.0	µg/L	1	08/01/18 03:50 PM
Tetrachloroethene	ND		1.0	µg/L	1	08/01/18 03:50 PM
Toluene	ND		1.0	µg/L	1	08/01/18 03:50 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	08/01/18 03:50 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	08/01/18 03:50 PM
Trichloroethene	ND		1.0	µg/L	1	08/01/18 03:50 PM
Vinyl chloride	ND		1.0	µg/L	1	08/01/18 03:50 PM
Xylenes, Total	ND		3.0	µg/L	1	08/01/18 03:50 PM
Surr: 1,2-Dichloroethane-d4	98.4		75-120	%REC	1	08/01/18 03:50 PM
Surr: 4-Bromofluorobenzene	96.6		80-110	%REC	1	08/01/18 03:50 PM
Surr: Dibromofluoromethane	101		85-115	%REC	1	08/01/18 03:50 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 06-Aug-18

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040.15)

Work Order: 18071884

Sample ID: ATR-MW12-G072618

Lab ID: 18071884-41

Collection Date: 07/26/18 09:10 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: Toluene-d8</i>	98.4		85-110	%REC	1	08/01/18 03:50 PM
ORGANIC CARBON, TOTAL			SW9060A			Analyst: JJG
Organic Carbon, Total	7.3		0.50	mg/L	1	08/03/18 02:05 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.15)
Sample ID: ATR-MW13-G072618
Collection Date: 07/26/18 10:10 AM

Work Order: 18071884
Lab ID: 18071884-42
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260C		Analyst: WH	
1,1,1-Trichloroethane	ND		1.0	µg/L	1	08/01/18 03:02 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	08/01/18 03:02 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	08/01/18 03:02 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	08/01/18 03:02 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	08/01/18 03:02 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	08/01/18 03:02 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	08/01/18 03:02 PM
2-Butanone	ND		5.0	µg/L	1	08/01/18 03:02 PM
2-Hexanone	ND		5.0	µg/L	1	08/01/18 03:02 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	08/01/18 03:02 PM
Acetone	ND		10	µg/L	1	08/01/18 03:02 PM
Benzene	ND		1.0	µg/L	1	08/01/18 03:02 PM
Bromodichloromethane	ND		1.0	µg/L	1	08/01/18 03:02 PM
Bromoform	ND		1.0	µg/L	1	08/01/18 03:02 PM
Bromomethane	ND		1.0	µg/L	1	08/01/18 03:02 PM
Carbon disulfide	ND		1.0	µg/L	1	08/01/18 03:02 PM
Carbon tetrachloride	ND		1.0	µg/L	1	08/01/18 03:02 PM
Chlorobenzene	ND		1.0	µg/L	1	08/01/18 03:02 PM
Chloroethane	ND		1.0	µg/L	1	08/01/18 03:02 PM
Chloroform	ND		1.0	µg/L	1	08/01/18 03:02 PM
Chloromethane	ND		1.0	µg/L	1	08/01/18 03:02 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	08/01/18 03:02 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	08/01/18 03:02 PM
Dibromochloromethane	ND		1.0	µg/L	1	08/01/18 03:02 PM
Ethylbenzene	ND		1.0	µg/L	1	08/01/18 03:02 PM
m,p-Xylene	ND		2.0	µg/L	1	08/01/18 03:02 PM
Methylene chloride	ND		5.0	µg/L	1	08/01/18 03:02 PM
o-Xylene	ND		1.0	µg/L	1	08/01/18 03:02 PM
Styrene	ND		1.0	µg/L	1	08/01/18 03:02 PM
Tetrachloroethene	ND		1.0	µg/L	1	08/01/18 03:02 PM
Toluene	ND		1.0	µg/L	1	08/01/18 03:02 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	08/01/18 03:02 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	08/01/18 03:02 PM
Trichloroethene	ND		1.0	µg/L	1	08/01/18 03:02 PM
Vinyl chloride	ND		1.0	µg/L	1	08/01/18 03:02 PM
Xylenes, Total	ND		3.0	µg/L	1	08/01/18 03:02 PM
Surr: 1,2-Dichloroethane-d4	97.4		75-120	%REC	1	08/01/18 03:02 PM
Surr: 4-Bromofluorobenzene	97.2		80-110	%REC	1	08/01/18 03:02 PM
Surr: Dibromofluoromethane	100		85-115	%REC	1	08/01/18 03:02 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 06-Aug-18

Client: Wood Environment & Infrastructure Solutions, Inc.**Project:** TFS Rochester (3359-15-1040.15)**Work Order:** 18071884**Sample ID:** ATR-MW13-G072618**Lab ID:** 18071884-42**Collection Date:** 07/26/18 10:10 AM**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: Toluene-d8</i>	98.8		85-110	%REC	1	08/01/18 03:02 PM
ORGANIC CARBON, TOTAL			SW9060A			Analyst: JJG
Organic Carbon, Total	2.2		1.0	mg/L	2	08/02/18 01:31 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040.15)

Work Order: 18071884

Sample ID: ATR-MW13-G072618-EB

Lab ID: 18071884-43

Collection Date: 07/26/18 10:00 AM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260C		Analyst: WH	
1,1,1-Trichloroethane	ND		1.0	µg/L	1	08/01/18 03:33 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	08/01/18 03:33 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	08/01/18 03:33 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	08/01/18 03:33 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	08/01/18 03:33 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	08/01/18 03:33 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	08/01/18 03:33 PM
2-Butanone	ND		5.0	µg/L	1	08/01/18 03:33 PM
2-Hexanone	ND		5.0	µg/L	1	08/01/18 03:33 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	08/01/18 03:33 PM
Acetone	ND		10	µg/L	1	08/01/18 03:33 PM
Benzene	ND		1.0	µg/L	1	08/01/18 03:33 PM
Bromodichloromethane	ND		1.0	µg/L	1	08/01/18 03:33 PM
Bromoform	ND		1.0	µg/L	1	08/01/18 03:33 PM
Bromomethane	ND		1.0	µg/L	1	08/01/18 03:33 PM
Carbon disulfide	ND		1.0	µg/L	1	08/01/18 03:33 PM
Carbon tetrachloride	ND		1.0	µg/L	1	08/01/18 03:33 PM
Chlorobenzene	ND		1.0	µg/L	1	08/01/18 03:33 PM
Chloroethane	ND		1.0	µg/L	1	08/01/18 03:33 PM
Chloroform	ND		1.0	µg/L	1	08/01/18 03:33 PM
Chloromethane	ND		1.0	µg/L	1	08/01/18 03:33 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	08/01/18 03:33 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	08/01/18 03:33 PM
Dibromochloromethane	ND		1.0	µg/L	1	08/01/18 03:33 PM
Ethylbenzene	ND		1.0	µg/L	1	08/01/18 03:33 PM
m,p-Xylene	ND		2.0	µg/L	1	08/01/18 03:33 PM
Methylene chloride	ND		5.0	µg/L	1	08/01/18 03:33 PM
o-Xylene	ND		1.0	µg/L	1	08/01/18 03:33 PM
Styrene	ND		1.0	µg/L	1	08/01/18 03:33 PM
Tetrachloroethene	ND		1.0	µg/L	1	08/01/18 03:33 PM
Toluene	ND		1.0	µg/L	1	08/01/18 03:33 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	08/01/18 03:33 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	08/01/18 03:33 PM
Trichloroethene	ND		1.0	µg/L	1	08/01/18 03:33 PM
Vinyl chloride	ND		1.0	µg/L	1	08/01/18 03:33 PM
Xylenes, Total	ND		3.0	µg/L	1	08/01/18 03:33 PM
Surr: 1,2-Dichloroethane-d4	99.8		75-120	%REC	1	08/01/18 03:33 PM
Surr: 4-Bromofluorobenzene	94.3		80-110	%REC	1	08/01/18 03:33 PM
Surr: Dibromofluoromethane	103		85-115	%REC	1	08/01/18 03:33 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 06-Aug-18

Client: Wood Environment & Infrastructure Solutions, Inc.**Project:** TFS Rochester (3359-15-1040.15)**Work Order:** 18071884**Sample ID:** ATR-MW13-G072618-EB**Lab ID:** 18071884-43**Collection Date:** 07/26/18 10:00 AM**Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: Toluene-d8</i>	97.3		85-110	%REC	1	08/01/18 03:33 PM
ORGANIC CARBON, TOTAL			SW9060A			Analyst: JJG
Organic Carbon, Total	24		10	mg/L	20	08/02/18 01:31 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
 Project: TFS Rochester (3359-15-1040.15)
 Sample ID: ATR-MW6C-G072618
 Collection Date: 07/26/18 08:45 AM

Work Order: 18071884
 Lab ID: 18071884-44
 Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260C		Analyst: WH	
1,1,1-Trichloroethane	ND		1.0	µg/L	1	08/01/18 04:05 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	08/01/18 04:05 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	08/01/18 04:05 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	08/01/18 04:05 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	08/01/18 04:05 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	08/01/18 04:05 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	08/01/18 04:05 PM
2-Butanone	ND		5.0	µg/L	1	08/01/18 04:05 PM
2-Hexanone	ND		5.0	µg/L	1	08/01/18 04:05 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	08/01/18 04:05 PM
Acetone	ND		10	µg/L	1	08/01/18 04:05 PM
Benzene	ND		1.0	µg/L	1	08/01/18 04:05 PM
Bromodichloromethane	ND		1.0	µg/L	1	08/01/18 04:05 PM
Bromoform	ND		1.0	µg/L	1	08/01/18 04:05 PM
Bromomethane	ND		1.0	µg/L	1	08/01/18 04:05 PM
Carbon disulfide	ND		1.0	µg/L	1	08/01/18 04:05 PM
Carbon tetrachloride	ND		1.0	µg/L	1	08/01/18 04:05 PM
Chlorobenzene	ND		1.0	µg/L	1	08/01/18 04:05 PM
Chloroethane	ND		1.0	µg/L	1	08/01/18 04:05 PM
Chloroform	ND		1.0	µg/L	1	08/01/18 04:05 PM
Chloromethane	ND		1.0	µg/L	1	08/01/18 04:05 PM
cis-1,2-Dichloroethene	74		1.0	µg/L	1	08/01/18 04:05 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	08/01/18 04:05 PM
Dibromochloromethane	ND		1.0	µg/L	1	08/01/18 04:05 PM
Ethylbenzene	ND		1.0	µg/L	1	08/01/18 04:05 PM
m,p-Xylene	ND		2.0	µg/L	1	08/01/18 04:05 PM
Methylene chloride	ND		5.0	µg/L	1	08/01/18 04:05 PM
o-Xylene	ND		1.0	µg/L	1	08/01/18 04:05 PM
Styrene	ND		1.0	µg/L	1	08/01/18 04:05 PM
Tetrachloroethene	ND		1.0	µg/L	1	08/01/18 04:05 PM
Toluene	ND		1.0	µg/L	1	08/01/18 04:05 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	08/01/18 04:05 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	08/01/18 04:05 PM
Trichloroethene	ND		1.0	µg/L	1	08/01/18 04:05 PM
Vinyl chloride	35		1.0	µg/L	1	08/01/18 04:05 PM
Xylenes, Total	ND		3.0	µg/L	1	08/01/18 04:05 PM
Surr: 1,2-Dichloroethane-d4	98.9		75-120	%REC	1	08/01/18 04:05 PM
Surr: 4-Bromofluorobenzene	95.1		80-110	%REC	1	08/01/18 04:05 PM
Surr: Dibromofluoromethane	103		85-115	%REC	1	08/01/18 04:05 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 06-Aug-18

Client: Wood Environment & Infrastructure Solutions, Inc.
Project: TFS Rochester (3359-15-1040.15)
Sample ID: ATR-MW6C-G072618
Collection Date: 07/26/18 08:45 AM

Work Order: 18071884
Lab ID: 18071884-44
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: Toluene-d8</i>	97.8		85-110	%REC	1	08/01/18 04:05 PM
ORGANIC CARBON, TOTAL			SW9060A			Analyst: JJG
Organic Carbon, Total	5.5		0.50	mg/L	1	08/02/18 01:31 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040.15)

Work Order: 18071884

Sample ID: ATR-072618-TB1

Lab ID: 18071884-45

Collection Date: 07/26/18 12:15 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
VOLATILE ORGANIC COMPOUNDS			SW8260C		Analyst: WH	
1,1,1-Trichloroethane	ND		1.0	µg/L	1	08/01/18 02:31 PM
1,1,2,2-Tetrachloroethane	ND		1.0	µg/L	1	08/01/18 02:31 PM
1,1,2-Trichloroethane	ND		1.0	µg/L	1	08/01/18 02:31 PM
1,1-Dichloroethane	ND		1.0	µg/L	1	08/01/18 02:31 PM
1,1-Dichloroethene	ND		1.0	µg/L	1	08/01/18 02:31 PM
1,2-Dichloroethane	ND		1.0	µg/L	1	08/01/18 02:31 PM
1,2-Dichloropropane	ND		1.0	µg/L	1	08/01/18 02:31 PM
2-Butanone	ND		5.0	µg/L	1	08/01/18 02:31 PM
2-Hexanone	ND		5.0	µg/L	1	08/01/18 02:31 PM
4-Methyl-2-pentanone	ND		1.0	µg/L	1	08/01/18 02:31 PM
Acetone	ND		10	µg/L	1	08/01/18 02:31 PM
Benzene	ND		1.0	µg/L	1	08/01/18 02:31 PM
Bromodichloromethane	ND		1.0	µg/L	1	08/01/18 02:31 PM
Bromoform	ND		1.0	µg/L	1	08/01/18 02:31 PM
Bromomethane	ND		1.0	µg/L	1	08/01/18 02:31 PM
Carbon disulfide	ND		1.0	µg/L	1	08/01/18 02:31 PM
Carbon tetrachloride	ND		1.0	µg/L	1	08/01/18 02:31 PM
Chlorobenzene	ND		1.0	µg/L	1	08/01/18 02:31 PM
Chloroethane	ND		1.0	µg/L	1	08/01/18 02:31 PM
Chloroform	ND		1.0	µg/L	1	08/01/18 02:31 PM
Chloromethane	ND		1.0	µg/L	1	08/01/18 02:31 PM
cis-1,2-Dichloroethene	ND		1.0	µg/L	1	08/01/18 02:31 PM
cis-1,3-Dichloropropene	ND		1.0	µg/L	1	08/01/18 02:31 PM
Dibromochloromethane	ND		1.0	µg/L	1	08/01/18 02:31 PM
Ethylbenzene	ND		1.0	µg/L	1	08/01/18 02:31 PM
m,p-Xylene	ND		2.0	µg/L	1	08/01/18 02:31 PM
Methylene chloride	ND		5.0	µg/L	1	08/01/18 02:31 PM
o-Xylene	ND		1.0	µg/L	1	08/01/18 02:31 PM
Styrene	ND		1.0	µg/L	1	08/01/18 02:31 PM
Tetrachloroethene	ND		1.0	µg/L	1	08/01/18 02:31 PM
Toluene	ND		1.0	µg/L	1	08/01/18 02:31 PM
trans-1,2-Dichloroethene	ND		1.0	µg/L	1	08/01/18 02:31 PM
trans-1,3-Dichloropropene	ND		1.0	µg/L	1	08/01/18 02:31 PM
Trichloroethene	ND		1.0	µg/L	1	08/01/18 02:31 PM
Vinyl chloride	ND		1.0	µg/L	1	08/01/18 02:31 PM
Xylenes, Total	ND		3.0	µg/L	1	08/01/18 02:31 PM
Surr: 1,2-Dichloroethane-d4	98.6		75-120	%REC	1	08/01/18 02:31 PM
Surr: 4-Bromofluorobenzene	99.0		80-110	%REC	1	08/01/18 02:31 PM
Surr: Dibromofluoromethane	104		85-115	%REC	1	08/01/18 02:31 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 06-Aug-18

Client: Wood Environment & Infrastructure Solutions, Inc.

Project: TFS Rochester (3359-15-1040.15)

Work Order: 18071884

Sample ID: ATR-072618-TB1

Lab ID: 18071884-45

Collection Date: 07/26/18 12:15 PM

Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<i>Surr: Toluene-d8</i>	98.5		85-110	%REC	1	08/01/18 02:31 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: Wood Environment & Infrastructure Solutions, Inc.
Work Order: 18071884
Project: TFS Rochester (3359-15-1040.15)

QC BATCH REPORT

Batch ID: **R241283A** Instrument ID **VMS10** Method: **SW8260C**

MBLK		Sample ID: VBK1-180731-R241283A				Units: µg/L		Analysis Date: 07/31/18 01:54 PM		
Client ID:		Run ID: VMS10_180731A				SeqNo: 5178187		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloroethane	ND	1.0								
1,2-Dichloropropane	ND	1.0								
2-Butanone	ND	5.0								
2-Hexanone	ND	5.0								
4-Methyl-2-pentanone	ND	1.0								
Acetone	ND	10								
Benzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	1.0								
Carbon disulfide	ND	1.0								
Carbon tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	1.0								
Chloroform	ND	1.0								
Chloromethane	ND	1.0								
cis-1,2-Dichloroethene	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
Dibromochloromethane	ND	1.0								
Ethylbenzene	ND	1.0								
m,p-Xylene	ND	2.0								
Methylene chloride	ND	5.0								
o-Xylene	ND	1.0								
Styrene	ND	1.0								
Tetrachloroethene	ND	1.0								
Toluene	ND	1.0								
trans-1,2-Dichloroethene	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
Trichloroethene	ND	1.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 1,2-Dichloroethane-d4	20.3	0	20	0	102	75-120	0			
Surr: 4-Bromofluorobenzene	19.69	0	20	0	98.4	80-110	0			
Surr: Dibromofluoromethane	19.82	0	20	0	99.1	85-115	0			
Surr: Toluene-d8	19.6	0	20	0	98	85-110	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Wood Environment & Infrastructure Solutions, Inc.
 Work Order: 18071884
 Project: TFS Rochester (3359-15-1040.15)

QC BATCH REPORT

Batch ID: **R241283A** Instrument ID **VMS10** Method: **SW8260C**

LCS		Sample ID: VLCSW2-180731-R241283A				Units: µg/L		Analysis Date: 07/31/18 01:05 PM		
Client ID:		Run ID: VMS10_180731A		SeqNo: 5178186		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	20.94	1.0	20	0	105	75-130	0			
1,1,2,2-Tetrachloroethane	21.73	1.0	20	0	109	75-130	0			
1,1,2-Trichloroethane	21.91	1.0	20	0	110	75-125	0			
1,1-Dichloroethane	20.94	1.0	20	0	105	68-142	0			
1,1-Dichloroethene	22.45	1.0	20	0	112	70-145	0			
1,2-Dichloroethane	19.72	1.0	20	0	98.6	78-125	0			
1,2-Dichloropropane	20.76	1.0	20	0	104	75-125	0			
2-Butanone	21.36	5.0	20	0	107	55-150	0			
2-Hexanone	22.81	5.0	20	0	114	60-135	0			
4-Methyl-2-pentanone	32.34	1.0	20	0	162	77-178	0			
Acetone	19.21	10	20	0	96	60-160	0			
Benzene	20.55	1.0	20	0	103	85-125	0			
Bromodichloromethane	19.9	1.0	20	0	99.5	75-125	0			
Bromoform	19.86	1.0	20	0	99.3	60-125	0			
Bromomethane	32.48	1.0	20	0	162	30-185	0			
Carbon disulfide	21.08	1.0	20	0	105	60-165	0			
Carbon tetrachloride	21.13	1.0	20	0	106	65-140	0			
Chlorobenzene	20.29	1.0	20	0	101	80-120	0			
Chloroethane	24.45	1.0	20	0	122	50-140	0			
Chloroform	21.08	1.0	20	0	105	80-130	0			
Chloromethane	20.29	1.0	20	0	101	46-148	0			
cis-1,2-Dichloroethene	21.71	1.0	20	0	109	75-134	0			
cis-1,3-Dichloropropene	19.12	1.0	20	0	95.6	70-130	0			
Dibromochloromethane	19.29	1.0	20	0	96.4	60-115	0			
Ethylbenzene	20.08	1.0	20	0	100	76-123	0			
m,p-Xylene	39.89	2.0	40	0	99.7	75-130	0			
Methylene chloride	20.21	5.0	20	0	101	75-140	0			
o-Xylene	20.66	1.0	20	0	103	76-127	0			
Styrene	21.44	1.0	20	0	107	83-137	0			
Tetrachloroethene	22.19	1.0	20	0	111	68-166	0			
Toluene	20.19	1.0	20	0	101	76-125	0			
trans-1,2-Dichloroethene	21.94	1.0	20	0	110	80-140	0			
trans-1,3-Dichloropropene	19.21	1.0	20	0	96	56-132	0			
Trichloroethene	20.89	1.0	20	0	104	84-130	0			
Vinyl chloride	24.19	1.0	20	0	121	50-136	0			
Xylenes, Total	60.55	3.0	60	0	101	76-127	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>20.77</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>104</i>	<i>75-120</i>	<i>0</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>20.36</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>102</i>	<i>80-110</i>	<i>0</i>			
<i>Surr: Dibromofluoromethane</i>	<i>20.49</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>102</i>	<i>85-115</i>	<i>0</i>			
<i>Surr: Toluene-d8</i>	<i>20.42</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>102</i>	<i>85-110</i>	<i>0</i>			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Wood Environment & Infrastructure Solutions, Inc.
 Work Order: 18071884
 Project: TFS Rochester (3359-15-1040.15)

QC BATCH REPORT

Batch ID: **R241283A** Instrument ID **VMS10** Method: **SW8260C**

MS		Sample ID: 18071884-17A MS				Units: µg/L		Analysis Date: 07/31/18 08:53 PM		
Client ID: ATR-PM2-G072418		Run ID: VMS10_180731A		SeqNo: 5178215		Prep Date:		DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	202.5	10	200	0	101	75-130	0			
1,1,2,2-Tetrachloroethane	203.9	10	200	0	102	75-130	0			
1,1,2-Trichloroethane	202.3	10	200	0	101	75-125	0			
1,1-Dichloroethane	200.5	10	200	0	100	68-142	0			
1,1-Dichloroethene	223.7	10	200	0	112	70-145	0			
1,2-Dichloroethane	191.2	10	200	0	95.6	78-125	0			
1,2-Dichloropropane	200.5	10	200	0	100	75-125	0			
2-Butanone	209.1	50	200	31.1	89	55-150	0			
2-Hexanone	194.5	50	200	0	97.2	60-135	0			
4-Methyl-2-pentanone	268	10	200	0	134	77-178	0			
Acetone	260.6	100	200	78	91.3	60-160	0			
Benzene	199.5	10	200	0	99.8	85-125	0			
Bromodichloromethane	178.9	10	200	0	89.4	75-125	0			
Bromoform	166.5	10	200	0	83.2	60-125	0			
Bromomethane	287.2	10	200	0	144	30-185	0			
Carbon disulfide	186.7	10	200	0	93.4	60-165	0			
Carbon tetrachloride	202.7	10	200	0	101	65-140	0			
Chlorobenzene	189.2	10	200	0	94.6	80-120	0			
Chloroethane	226.9	10	200	0	113	50-140	0			
Chloroform	205.1	10	200	0	103	80-130	0			
Chloromethane	189.9	10	200	0	95	46-148	0			
cis-1,2-Dichloroethene	203.9	10	200	0	102	75-134	0			
cis-1,3-Dichloropropene	170.6	10	200	0	85.3	70-130	0			
Dibromochloromethane	166.8	10	200	0	83.4	60-115	0			
Ethylbenzene	193.9	10	200	7	93.4	76-123	0			
m,p-Xylene	382.7	20	400	10.7	93	75-130	0			
Methylene chloride	192	50	200	0	96	75-140	0			
o-Xylene	193.9	10	200	0	97	76-127	0			
Styrene	201.4	10	200	0	101	83-137	0			
Tetrachloroethene	212.6	10	200	0	106	68-166	0			
Toluene	197.9	10	200	8.9	94.5	76-125	0			
trans-1,2-Dichloroethene	209.6	10	200	0	105	80-140	0			
trans-1,3-Dichloropropene	162.8	10	200	0	81.4	56-132	0			
Trichloroethene	202	10	200	0	101	84-130	0			
Vinyl chloride	222.1	10	200	0	111	50-136	0			
Xylenes, Total	576.6	30	600	10.7	94.3	76-127	0			
Surr: 1,2-Dichloroethane-d4	210.1	0	200	0	105	75-120	0			
Surr: 4-Bromofluorobenzene	203.7	0	200	0	102	80-110	0			
Surr: Dibromofluoromethane	204.8	0	200	0	102	85-115	0			
Surr: Toluene-d8	197.9	0	200	0	99	85-110	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Wood Environment & Infrastructure Solutions, Inc.
 Work Order: 18071884
 Project: TFS Rochester (3359-15-1040.15)

QC BATCH REPORT

Batch ID: **R241283A** Instrument ID **VMS10** Method: **SW8260C**

MSD		Sample ID: 18071884-17A MSD				Units: µg/L		Analysis Date: 07/31/18 09:10 PM		
Client ID: ATR-PM2-G072418		Run ID: VMS10_180731A		SeqNo: 5178217		Prep Date:		DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	202.6	10	200	0	101	75-130	202.5	0.0494	30	
1,1,2,2-Tetrachloroethane	205.4	10	200	0	103	75-130	203.9	0.733	30	
1,1,2-Trichloroethane	202.3	10	200	0	101	75-125	202.3	0	30	
1,1-Dichloroethane	200.5	10	200	0	100	68-142	200.5	0	30	
1,1-Dichloroethene	221.9	10	200	0	111	70-145	223.7	0.808	30	
1,2-Dichloroethane	187.7	10	200	0	93.8	78-125	191.2	1.85	30	
1,2-Dichloropropane	194.9	10	200	0	97.4	75-125	200.5	2.83	30	
2-Butanone	216.7	50	200	31.1	92.8	55-150	209.1	3.57	30	
2-Hexanone	200.4	50	200	0	100	60-135	194.5	2.99	30	
4-Methyl-2-pentanone	276.6	10	200	0	138	77-178	268	3.16	30	
Acetone	261.1	100	200	78	91.6	60-160	260.6	0.192	30	
Benzene	195.7	10	200	0	97.8	85-125	199.5	1.92	30	
Bromodichloromethane	179.9	10	200	0	90	75-125	178.9	0.557	30	
Bromoform	170.3	10	200	0	85.2	60-125	166.5	2.26	30	
Bromomethane	302.4	10	200	0	151	30-185	287.2	5.16	30	
Carbon disulfide	190.7	10	200	0	95.4	60-165	186.7	2.12	30	
Carbon tetrachloride	197.9	10	200	0	99	65-140	202.7	2.4	30	
Chlorobenzene	189.9	10	200	0	95	80-120	189.2	0.369	30	
Chloroethane	228.8	10	200	0	114	50-140	226.9	0.834	30	
Chloroform	199.6	10	200	0	99.8	80-130	205.1	2.72	30	
Chloromethane	192.8	10	200	0	96.4	46-148	189.9	1.52	30	
cis-1,2-Dichloroethene	199.5	10	200	0	99.8	75-134	203.9	2.18	30	
cis-1,3-Dichloropropene	167.5	10	200	0	83.8	70-130	170.6	1.83	30	
Dibromochloromethane	170.4	10	200	0	85.2	60-115	166.8	2.14	30	
Ethylbenzene	197.7	10	200	7	95.4	76-123	193.9	1.94	30	
m,p-Xylene	385.9	20	400	10.7	93.8	75-130	382.7	0.833	30	
Methylene chloride	189.4	50	200	0	94.7	75-140	192	1.36	30	
o-Xylene	197.7	10	200	0	98.8	76-127	193.9	1.94	30	
Styrene	201.6	10	200	0	101	83-137	201.4	0.0993	30	
Tetrachloroethene	217.8	10	200	0	109	68-166	212.6	2.42	30	
Toluene	195.7	10	200	8.9	93.4	76-125	197.9	1.12	30	
trans-1,2-Dichloroethene	209	10	200	0	104	80-140	209.6	0.287	30	
trans-1,3-Dichloropropene	168.7	10	200	0	84.4	56-132	162.8	3.56	30	
Trichloroethene	200.7	10	200	0	100	84-130	202	0.646	30	
Vinyl chloride	221.7	10	200	0	111	50-136	222.1	0.18	30	
Xylenes, Total	583.6	30	600	10.7	95.5	76-127	576.6	1.21	30	
Surr: 1,2-Dichloroethane-d4	202.6	0	200	0	101	75-120	210.1	3.63	30	
Surr: 4-Bromofluorobenzene	198.9	0	200	0	99.4	80-110	203.7	2.38	30	
Surr: Dibromofluoromethane	204.2	0	200	0	102	85-115	204.8	0.293	30	
Surr: Toluene-d8	199.4	0	200	0	99.7	85-110	197.9	0.755	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Wood Environment & Infrastructure Solutions, Inc.

QC BATCH REPORT

Work Order: 18071884

Project: TFS Rochester (3359-15-1040.15)

Batch ID: **R241283A**

Instrument ID **VMS10**

Method: **SW8260C**

The following samples were analyzed in this batch:

18071884-01A	18071884-02A	18071884-03A
18071884-04A	18071884-05A	18071884-06A
18071884-07A	18071884-08A	18071884-09A
18071884-10A	18071884-11A	18071884-12A
18071884-13A	18071884-14A	18071884-15A
18071884-16A	18071884-17A	18071884-18A
18071884-19A	18071884-20A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Wood Environment & Infrastructure Solutions, Inc.
Work Order: 18071884
Project: TFS Rochester (3359-15-1040.15)

QC BATCH REPORT

Batch ID: **R241351** Instrument ID **VMS10** Method: **SW8260C**

MBLK		Sample ID: VBLKW2-180731-R241351				Units: µg/L		Analysis Date: 07/31/18 11:23 PM		
Client ID:		Run ID: VMS10_180731B		SeqNo: 5178206		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloroethane	ND	1.0								
1,2-Dichloropropane	ND	1.0								
2-Butanone	ND	5.0								
2-Hexanone	ND	5.0								
4-Methyl-2-pentanone	ND	1.0								
Acetone	ND	10								
Benzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	1.0								
Carbon disulfide	ND	1.0								
Carbon tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	1.0								
Chloroform	ND	1.0								
Chloromethane	ND	1.0								
cis-1,2-Dichloroethene	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
Dibromochloromethane	ND	1.0								
Ethylbenzene	ND	1.0								
m,p-Xylene	ND	2.0								
Methylene chloride	ND	5.0								
o-Xylene	ND	1.0								
Styrene	ND	1.0								
Tetrachloroethene	ND	1.0								
Toluene	ND	1.0								
trans-1,2-Dichloroethene	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
Trichloroethene	ND	1.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	3.0								
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>20.92</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>105</i>	<i>75-120</i>	<i>0</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>19.32</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>96.6</i>	<i>80-110</i>	<i>0</i>			
<i>Surr: Dibromofluoromethane</i>	<i>19.88</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>99.4</i>	<i>85-115</i>	<i>0</i>			
<i>Surr: Toluene-d8</i>	<i>19.43</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>97.2</i>	<i>85-110</i>	<i>0</i>			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Wood Environment & Infrastructure Solutions, Inc.
Work Order: 18071884
Project: TFS Rochester (3359-15-1040.15)

QC BATCH REPORT

Batch ID: **R241351** Instrument ID **VMS10** Method: **SW8260C**

LCS		Sample ID: VLCSW3-180731-R241351				Units: µg/L		Analysis Date: 07/31/18 10:33 PM		
Client ID:		Run ID: VMS10_180731B		SeqNo: 5178202		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	19.29	1.0	20	0	96.4	75-130	0			
1,1,2,2-Tetrachloroethane	19.84	1.0	20	0	99.2	75-130	0			
1,1,2-Trichloroethane	20.43	1.0	20	0	102	75-125	0			
1,1-Dichloroethane	18.95	1.0	20	0	94.8	68-142	0			
1,1-Dichloroethene	20.5	1.0	20	0	102	70-145	0			
1,2-Dichloroethane	18.55	1.0	20	0	92.8	78-125	0			
1,2-Dichloropropane	19.38	1.0	20	0	96.9	75-125	0			
2-Butanone	18.46	5.0	20	0	92.3	55-150	0			
2-Hexanone	19.37	5.0	20	0	96.8	60-135	0			
4-Methyl-2-pentanone	28.15	1.0	20	0	141	77-178	0			
Acetone	19.33	10	20	0	96.6	60-160	0			
Benzene	18.83	1.0	20	0	94.2	85-125	0			
Bromodichloromethane	17.88	1.0	20	0	89.4	75-125	0			
Bromoform	16.92	1.0	20	0	84.6	60-125	0			
Bromomethane	26.05	1.0	20	0	130	30-185	0			
Carbon disulfide	18.6	1.0	20	0	93	60-165	0			
Carbon tetrachloride	18.98	1.0	20	0	94.9	65-140	0			
Chlorobenzene	18.77	1.0	20	0	93.8	80-120	0			
Chloroethane	22.09	1.0	20	0	110	50-140	0			
Chloroform	19.38	1.0	20	0	96.9	80-130	0			
Chloromethane	20.7	1.0	20	0	104	46-148	0			
cis-1,2-Dichloroethene	18.56	1.0	20	0	92.8	75-134	0			
cis-1,3-Dichloropropene	17.14	1.0	20	0	85.7	70-130	0			
Dibromochloromethane	17.51	1.0	20	0	87.6	60-115	0			
Ethylbenzene	18.48	1.0	20	0	92.4	76-123	0			
m,p-Xylene	36.61	2.0	40	0	91.5	75-130	0			
Methylene chloride	18.45	5.0	20	0	92.2	75-140	0			
o-Xylene	19	1.0	20	0	95	76-127	0			
Styrene	19.83	1.0	20	0	99.2	83-137	0			
Tetrachloroethene	19.48	1.0	20	0	97.4	68-166	0			
Toluene	18.29	1.0	20	0	91.4	76-125	0			
trans-1,2-Dichloroethene	19.43	1.0	20	0	97.2	80-140	0			
trans-1,3-Dichloropropene	16.67	1.0	20	0	83.4	56-132	0			
Trichloroethene	19.12	1.0	20	0	95.6	84-130	0			
Vinyl chloride	21.29	1.0	20	0	106	50-136	0			
Xylenes, Total	55.61	3.0	60	0	92.7	76-127	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>20.6</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>103</i>	<i>75-120</i>	<i>0</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>19.55</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>97.8</i>	<i>80-110</i>	<i>0</i>			
<i>Surr: Dibromofluoromethane</i>	<i>20.62</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>103</i>	<i>85-115</i>	<i>0</i>			
<i>Surr: Toluene-d8</i>	<i>20.04</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>100</i>	<i>85-110</i>	<i>0</i>			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Wood Environment & Infrastructure Solutions, Inc.
 Work Order: 18071884
 Project: TFS Rochester (3359-15-1040.15)

QC BATCH REPORT

Batch ID: **R241351** Instrument ID **VMS10** Method: **SW8260C**

MS		Sample ID: 18071884-23A MS				Units: µg/L		Analysis Date: 08/01/18 05:12 AM		
Client ID: ATR-MW25(45.2)-G072418		Run ID: VMS10_180731B		SeqNo: 5178230		Prep Date:		DF: 20		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	408.8	20	400	0	102	75-130	0			
1,1,2,2-Tetrachloroethane	415.8	20	400	0	104	75-130	0			
1,1,2-Trichloroethane	409	20	400	0	102	75-125	0			
1,1-Dichloroethane	408	20	400	0	102	68-142	0			
1,1-Dichloroethene	417.4	20	400	0	104	70-145	0			
1,2-Dichloroethane	380.6	20	400	0	95.2	78-125	0			
1,2-Dichloropropane	403	20	400	0	101	75-125	0			
2-Butanone	499	100	400	89.2	102	55-150	0			
2-Hexanone	407.6	100	400	0	102	60-135	0			
4-Methyl-2-pentanone	552.6	20	400	0	138	77-178	0			
Acetone	404.8	200	400	0	101	60-160	0			
Benzene	396.8	20	400	0	99.2	85-125	0			
Bromodichloromethane	364.4	20	400	0	91.1	75-125	0			
Bromoform	332	20	400	0	83	60-125	0			
Bromomethane	647	20	400	0	162	30-185	0			
Carbon disulfide	376.2	20	400	0	94	60-165	0			
Carbon tetrachloride	400.2	20	400	0	100	65-140	0			
Chlorobenzene	384.6	20	400	0	96.2	80-120	0			
Chloroethane	459.8	20	400	0	115	50-140	0			
Chloroform	409.4	20	400	0	102	80-130	0			
Chloromethane	392.6	20	400	0	98.2	46-148	0			
cis-1,2-Dichloroethene	400.6	20	400	0	100	75-134	0			
cis-1,3-Dichloropropene	323.6	20	400	0	80.9	70-130	0			
Dibromochloromethane	323.8	20	400	0	81	60-115	0			
Ethylbenzene	370.8	20	400	0	92.7	76-123	0			
m,p-Xylene	740.4	40	800	0	92.6	75-130	0			
Methylene chloride	390.2	100	400	0	97.6	75-140	0			
o-Xylene	380.4	20	400	0	95.1	76-127	0			
Styrene	395.6	20	400	0	98.9	83-137	0			
Tetrachloroethene	390.4	20	400	0	97.6	68-166	0			
Toluene	375.2	20	400	0	93.8	76-125	0			
trans-1,2-Dichloroethene	428.2	20	400	0	107	80-140	0			
trans-1,3-Dichloropropene	317	20	400	0	79.2	56-132	0			
Trichloroethene	402.8	20	400	0	101	84-130	0			
Vinyl chloride	480.2	20	400	0	120	50-136	0			
Xylenes, Total	1121	60	1200	0	93.4	76-127	0			
Surr: 1,2-Dichloroethane-d4	420.8	0	400	0	105	75-120	0			
Surr: 4-Bromofluorobenzene	402.4	0	400	0	101	80-110	0			
Surr: Dibromofluoromethane	417.8	0	400	0	104	85-115	0			
Surr: Toluene-d8	397.2	0	400	0	99.3	85-110	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Wood Environment & Infrastructure Solutions, Inc.
 Work Order: 18071884
 Project: TFS Rochester (3359-15-1040.15)

QC BATCH REPORT

Batch ID: **R241351** Instrument ID **VMS10** Method: **SW8260C**

MSD		Sample ID: 18071884-23A MSD				Units: µg/L		Analysis Date: 08/01/18 05:29 AM		
Client ID: ATR-MW25(45.2)-G072418		Run ID: VMS10_180731B		SeqNo: 5178231		Prep Date:		DF: 20		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	420.8	20	400	0	105	75-130	420.8	0	30	
1,1,2,2-Tetrachloroethane	437	20	400	0	109	75-130	437	0	30	
1,1,2-Trichloroethane	417.6	20	400	0	104	75-125	417.6	0	30	
1,1-Dichloroethane	435.6	20	400	0	109	68-142	435.6	0	30	
1,1-Dichloroethene	433	20	400	0	108	70-145	433	0	30	
1,2-Dichloroethane	403	20	400	0	101	78-125	403	0	30	
1,2-Dichloropropane	415.6	20	400	0	104	75-125	415.6	0	30	
2-Butanone	520	100	400	89.2	108	55-150	520	0	30	
2-Hexanone	421	100	400	0	105	60-135	421	0	30	
4-Methyl-2-pentanone	569	20	400	0	142	77-178	569	0	30	
Acetone	429.8	200	400	0	107	60-160	429.8	0	30	
Benzene	416.4	20	400	0	104	85-125	416.4	0	30	
Bromodichloromethane	379.8	20	400	0	95	75-125	379.8	0	30	
Bromoform	334.6	20	400	0	83.6	60-125	334.6	0	30	
Bromomethane	704.6	20	400	0	176	30-185	704.6	0	30	
Carbon disulfide	402.8	20	400	0	101	60-165	402.8	0	30	
Carbon tetrachloride	409.6	20	400	0	102	65-140	409.6	0	30	
Chlorobenzene	389.8	20	400	0	97.4	80-120	389.8	0	30	
Chloroethane	494.8	20	400	0	124	50-140	494.8	0	30	
Chloroform	426.8	20	400	0	107	80-130	426.8	0	30	
Chloromethane	402.2	20	400	0	101	46-148	402.2	0	30	
cis-1,2-Dichloroethene	411.8	20	400	0	103	75-134	411.8	0	30	
cis-1,3-Dichloropropene	348	20	400	0	87	70-130	348	0	30	
Dibromochloromethane	337.8	20	400	0	84.4	60-115	337.8	0	30	
Ethylbenzene	384	20	400	0	96	76-123	384	0	30	
m,p-Xylene	758.4	40	800	0	94.8	75-130	758.4	0	30	
Methylene chloride	403.2	100	400	0	101	75-140	403.2	0	30	
o-Xylene	396.4	20	400	0	99.1	76-127	396.4	0	30	
Styrene	394.8	20	400	0	98.7	83-137	394.8	0	30	
Tetrachloroethene	404.2	20	400	0	101	68-166	404.2	0	30	
Toluene	386.8	20	400	0	96.7	76-125	386.8	0	30	
trans-1,2-Dichloroethene	439.4	20	400	0	110	80-140	439.4	0	30	
trans-1,3-Dichloropropene	320.8	20	400	0	80.2	56-132	320.8	0	30	
Trichloroethene	419.2	20	400	0	105	84-130	419.2	0	30	
Vinyl chloride	476.8	20	400	0	119	50-136	476.8	0	30	
Xylenes, Total	1155	60	1200	0	96.2	76-127	1155	0	30	
Surr: 1,2-Dichloroethane-d4	415.4	0	400	0	104	75-120	415.4	0	30	
Surr: 4-Bromofluorobenzene	399.6	0	400	0	99.9	80-110	399.6	0	30	
Surr: Dibromofluoromethane	419.8	0	400	0	105	85-115	419.8	0	30	
Surr: Toluene-d8	389.2	0	400	0	97.3	85-110	389.2	0	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Wood Environment & Infrastructure Solutions, Inc.

QC BATCH REPORT

Work Order: 18071884

Project: TFS Rochester (3359-15-1040.15)

Batch ID: **R241351**

Instrument ID **VMS10**

Method: **SW8260C**

The following samples were analyzed in this batch:

18071884-21A	18071884-22A	18071884-23A
18071884-24A	18071884-25A	18071884-26A
18071884-27A	18071884-28A	18071884-29A
18071884-30A	18071884-31A	18071884-32A
18071884-33A	18071884-34A	18071884-35A
18071884-36A	18071884-37A	18071884-38A
18071884-39A	18071884-40A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Wood Environment & Infrastructure Solutions, Inc.
Work Order: 18071884
Project: TFS Rochester (3359-15-1040.15)

QC BATCH REPORT

Batch ID: **R241376** Instrument ID **VMS7** Method: **SW8260C**

MBLK		Sample ID: VBLKW1-180801-R241376				Units: µg/L		Analysis Date: 08/01/18 02:01 PM		
Client ID:		Run ID: VMS7_180801A		SeqNo: 5180678		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloroethane	ND	1.0								
1,2-Dichloropropane	ND	1.0								
2-Butanone	ND	5.0								
2-Hexanone	ND	5.0								
4-Methyl-2-pentanone	ND	1.0								
Acetone	ND	10								
Benzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	1.0								
Carbon disulfide	ND	1.0								
Carbon tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	1.0								
Chloroform	ND	1.0								
Chloromethane	ND	1.0								
cis-1,2-Dichloroethene	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
Dibromochloromethane	ND	1.0								
Ethylbenzene	ND	1.0								
m,p-Xylene	ND	2.0								
Methylene chloride	ND	5.0								
o-Xylene	ND	1.0								
Styrene	ND	1.0								
Tetrachloroethene	ND	1.0								
Toluene	ND	1.0								
trans-1,2-Dichloroethene	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
Trichloroethene	ND	1.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	3.0								
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>19.57</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>97.8</i>	<i>75-120</i>	<i>0</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>19.5</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>97.5</i>	<i>80-110</i>	<i>0</i>			
<i>Surr: Dibromofluoromethane</i>	<i>20.21</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>101</i>	<i>85-115</i>	<i>0</i>			
<i>Surr: Toluene-d8</i>	<i>19.73</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>98.6</i>	<i>85-110</i>	<i>0</i>			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Wood Environment & Infrastructure Solutions, Inc.
 Work Order: 18071884
 Project: TFS Rochester (3359-15-1040.15)

QC BATCH REPORT

Batch ID: **R241376** Instrument ID **VMS7** Method: **SW8260C**

LCS		Sample ID: VLCSW1-180801-R241376				Units: µg/L		Analysis Date: 08/01/18 01:30 PM		
Client ID:		Run ID: VMS7_180801A			SeqNo: 5180675		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	20.52	1.0	20	0	103	75-130	0			
1,1,2,2-Tetrachloroethane	20.56	1.0	20	0	103	75-130	0			
1,1,2-Trichloroethane	20	1.0	20	0	100	75-125	0			
1,1-Dichloroethane	19.14	1.0	20	0	95.7	68-142	0			
1,1-Dichloroethene	20.77	1.0	20	0	104	70-145	0			
1,2-Dichloroethane	18.13	1.0	20	0	90.6	78-125	0			
1,2-Dichloropropane	19.04	1.0	20	0	95.2	75-125	0			
2-Butanone	16.54	5.0	20	0	82.7	55-150	0			
2-Hexanone	16.77	5.0	20	0	83.8	60-135	0			
4-Methyl-2-pentanone	24.88	1.0	20	0	124	77-178	0			
Acetone	17.73	10	20	0	88.6	60-160	0			
Benzene	18.93	1.0	20	0	94.6	85-125	0			
Bromodichloromethane	18.93	1.0	20	0	94.6	75-125	0			
Bromoform	19.88	1.0	20	0	99.4	60-125	0			
Bromomethane	20.33	1.0	20	0	102	30-185	0			
Carbon disulfide	21.29	1.0	20	0	106	60-165	0			
Carbon tetrachloride	19.35	1.0	20	0	96.8	65-140	0			
Chlorobenzene	19.55	1.0	20	0	97.8	80-120	0			
Chloroethane	75.81	1.0	20	0	379	50-140	0			S
Chloroform	19.06	1.0	20	0	95.3	80-130	0			
Chloromethane	13.63	1.0	20	0	68.2	46-148	0			
cis-1,2-Dichloroethene	19.14	1.0	20	0	95.7	75-134	0			
cis-1,3-Dichloropropene	19.02	1.0	20	0	95.1	70-130	0			
Dibromochloromethane	19.3	1.0	20	0	96.5	60-115	0			
Ethylbenzene	19.58	1.0	20	0	97.9	76-123	0			
m,p-Xylene	39.25	2.0	40	0	98.1	75-130	0			
Methylene chloride	17.93	5.0	20	0	89.6	75-140	0			
o-Xylene	19.42	1.0	20	0	97.1	76-127	0			
Styrene	20.81	1.0	20	0	104	83-137	0			
Tetrachloroethene	20.87	1.0	20	0	104	68-166	0			
Toluene	19.24	1.0	20	0	96.2	76-125	0			
trans-1,2-Dichloroethene	20.15	1.0	20	0	101	80-140	0			
trans-1,3-Dichloropropene	19.22	1.0	20	0	96.1	56-132	0			
Trichloroethene	20.37	1.0	20	0	102	84-130	0			
Vinyl chloride	15.89	1.0	20	0	79.4	50-136	0			
Xylenes, Total	58.67	3.0	60	0	97.8	76-127	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>18.93</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>94.6</i>	<i>75-120</i>	<i>0</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>20.03</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>100</i>	<i>80-110</i>	<i>0</i>			
<i>Surr: Dibromofluoromethane</i>	<i>20.11</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>101</i>	<i>85-115</i>	<i>0</i>			
<i>Surr: Toluene-d8</i>	<i>19.53</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>97.6</i>	<i>85-110</i>	<i>0</i>			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Wood Environment & Infrastructure Solutions, Inc.
 Work Order: 18071884
 Project: TFS Rochester (3359-15-1040.15)

QC BATCH REPORT

Batch ID: **R241376** Instrument ID **VMS7** Method: **SW8260C**

MS		Sample ID: 18071884-35A MS				Units: µg/L		Analysis Date: 08/01/18 08:06 PM		
Client ID: ATR-MW68(32)-G072518		Run ID: VMS7_180801A		SeqNo: 5180752		Prep Date:		DF: 5		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	122.6	5.0	100	0	123	75-130	0			
1,1,2,2-Tetrachloroethane	113.8	5.0	100	0	114	75-130	0			
1,1,2-Trichloroethane	113	5.0	100	0	113	75-125	0			
1,1-Dichloroethane	104.2	5.0	100	0	104	68-142	0			
1,1-Dichloroethene	115.6	5.0	100	0	116	70-145	0			
1,2-Dichloroethane	102.4	5.0	100	0	102	78-125	0			
1,2-Dichloropropane	109.2	5.0	100	0	109	75-125	0			
2-Butanone	126.5	25	100	53.4	73.1	55-150	0			
2-Hexanone	95.55	25	100	0	95.6	60-135	0			
4-Methyl-2-pentanone	141.7	5.0	100	0	142	77-178	0			
Acetone	132.8	50	100	38.75	94	60-160	0			
Benzene	108.6	5.0	100	0	109	85-125	0			
Bromodichloromethane	106.9	5.0	100	0	107	75-125	0			
Bromoform	113.1	5.0	100	0	113	60-125	0			
Bromomethane	353.8	5.0	100	0	354	30-185	0			S
Carbon disulfide	113.4	5.0	100	0	113	60-165	0			
Carbon tetrachloride	116.3	5.0	100	0	116	65-140	0			
Chlorobenzene	115.6	5.0	100	0	116	80-120	0			
Chloroethane	564.6	5.0	100	0	565	50-140	0			SE
Chloroform	108.8	5.0	100	0	109	80-130	0			
Chloromethane	64.45	5.0	100	0	64.4	46-148	0			
cis-1,2-Dichloroethene	383.7	5.0	100	237.8	146	75-134	0			S
cis-1,3-Dichloropropene	104.6	5.0	100	0	105	70-130	0			
Dibromochloromethane	109.9	5.0	100	0	110	60-115	0			
Ethylbenzene	116	5.0	100	0	116	76-123	0			
m,p-Xylene	230.5	10	200	0	115	75-130	0			
Methylene chloride	94.75	25	100	0	94.8	75-140	0			
o-Xylene	116.2	5.0	100	0	116	76-127	0			
Styrene	121.9	5.0	100	0	122	83-137	0			
Tetrachloroethene	128.3	5.0	100	0	128	68-166	0			
Toluene	114	5.0	100	0	114	76-125	0			
trans-1,2-Dichloroethene	111	5.0	100	0	111	80-140	0			
trans-1,3-Dichloropropene	104	5.0	100	0	104	56-132	0			
Trichloroethene	122.4	5.0	100	0	122	84-130	0			
Vinyl chloride	851.8	5.0	100	741.4	110	50-136	0			EO
Xylenes, Total	346.7	15	300	0	116	76-127	0			
Surr: 1,2-Dichloroethane-d4	94.6	0	100	0	94.6	75-120	0			
Surr: 4-Bromofluorobenzene	98.9	0	100	0	98.9	80-110	0			
Surr: Dibromofluoromethane	103.2	0	100	0	103	85-115	0			
Surr: Toluene-d8	97.25	0	100	0	97.2	85-110	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Wood Environment & Infrastructure Solutions, Inc.
 Work Order: 18071884
 Project: TFS Rochester (3359-15-1040.15)

QC BATCH REPORT

Batch ID: **R241376** Instrument ID **VMS7** Method: **SW8260C**

MSD		Sample ID: 18071884-35A MSD				Units: µg/L		Analysis Date: 08/01/18 08:21 PM		
Client ID: ATR-MW68(32)-G072518		Run ID: VMS7_180801A				SeqNo: 5180754		Prep Date:		DF: 5
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	125.5	5.0	100	0	126	75-130	122.6	2.38	30	
1,1,2,2-Tetrachloroethane	114.4	5.0	100	0	114	75-130	113.8	0.526	30	
1,1,2-Trichloroethane	114.1	5.0	100	0	114	75-125	113	1.01	30	
1,1-Dichloroethane	108	5.0	100	0	108	68-142	104.2	3.49	30	
1,1-Dichloroethene	116.6	5.0	100	0	117	70-145	115.6	0.905	30	
1,2-Dichloroethane	103.8	5.0	100	0	104	78-125	102.4	1.41	30	
1,2-Dichloropropane	111	5.0	100	0	111	75-125	109.2	1.68	30	
2-Butanone	121.2	25	100	53.4	67.8	55-150	126.5	4.24	30	
2-Hexanone	97.5	25	100	0	97.5	60-135	95.55	2.02	30	
4-Methyl-2-pentanone	137.7	5.0	100	0	138	77-178	141.7	2.86	30	
Acetone	134.4	50	100	38.75	95.7	60-160	132.8	1.27	30	
Benzene	112.8	5.0	100	0	113	85-125	108.6	3.79	30	
Bromodichloromethane	110.6	5.0	100	0	111	75-125	106.9	3.45	30	
Bromoform	112.6	5.0	100	0	113	60-125	113.1	0.487	30	
Bromomethane	330.8	5.0	100	0	331	30-185	353.8	6.72	30	S
Carbon disulfide	117.2	5.0	100	0	117	60-165	113.4	3.38	30	
Carbon tetrachloride	120.6	5.0	100	0	121	65-140	116.3	3.59	30	
Chlorobenzene	116	5.0	100	0	116	80-120	115.6	0.432	30	
Chloroethane	524.5	5.0	100	0	524	50-140	564.6	7.36	30	SE
Chloroform	112.2	5.0	100	0	112	80-130	108.8	3.08	30	
Chloromethane	70.1	5.0	100	0	70.1	46-148	64.45	8.4	30	
cis-1,2-Dichloroethene	382.2	5.0	100	237.8	144	75-134	383.7	0.379	30	S
cis-1,3-Dichloropropene	106	5.0	100	0	106	70-130	104.6	1.28	30	
Dibromochloromethane	110.8	5.0	100	0	111	60-115	109.9	0.861	30	
Ethylbenzene	118.5	5.0	100	0	118	76-123	116	2.09	30	
m,p-Xylene	232.8	10	200	0	116	75-130	230.5	0.971	30	
Methylene chloride	98.3	25	100	0	98.3	75-140	94.75	3.68	30	
o-Xylene	118.2	5.0	100	0	118	76-127	116.2	1.66	30	
Styrene	125.4	5.0	100	0	125	83-137	121.9	2.87	30	
Tetrachloroethene	132.6	5.0	100	0	133	68-166	128.3	3.33	30	
Toluene	116.9	5.0	100	0	117	76-125	114	2.47	30	
trans-1,2-Dichloroethene	111.6	5.0	100	0	112	80-140	111	0.584	30	
trans-1,3-Dichloropropene	107.6	5.0	100	0	108	56-132	104	3.4	30	
Trichloroethene	128.1	5.0	100	0	128	84-130	122.4	4.51	30	
Vinyl chloride	866.7	5.0	100	741.4	125	50-136	851.8	1.73	30	EO
Xylenes, Total	350.9	15	300	0	117	76-127	346.7	1.2	30	
Surr: 1,2-Dichloroethane-d4	96.25	0	100	0	96.2	75-120	94.6	1.73	30	
Surr: 4-Bromofluorobenzene	97.25	0	100	0	97.2	80-110	98.9	1.68	30	
Surr: Dibromofluoromethane	101.2	0	100	0	101	85-115	103.2	1.96	30	
Surr: Toluene-d8	98.25	0	100	0	98.2	85-110	97.25	1.02	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Wood Environment & Infrastructure Solutions, Inc.

QC BATCH REPORT

Work Order: 18071884

Project: TFS Rochester (3359-15-1040.15)

Batch ID: **R241376**

Instrument ID **VMS7**

Method: **SW8260C**

The following samples were analyzed in this batch:

18071884-03A	18071884-05A	18071884-08A
18071884-09A	18071884-11A	18071884-13A
18071884-16A	18071884-17A	18071884-23A
18071884-29A	18071884-32A	18071884-34A
18071884-35A	18071884-37A	18071884-38A
18071884-41A	18071884-42A	18071884-43A
18071884-44A	18071884-45A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Wood Environment & Infrastructure Solutions, Inc.
 Work Order: 18071884
 Project: TFS Rochester (3359-15-1040.15)

QC BATCH REPORT

Batch ID: **R241432a** Instrument ID **VMS7** Method: **SW8260C**

MBLK		Sample ID: VBLKW1-180802-R241432a				Units: µg/L		Analysis Date: 08/02/18 11:07 AM		
Client ID:		Run ID: VMS7_180802A		SeqNo: 5182762		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	1.0								
1,1,2,2-Tetrachloroethane	ND	1.0								
1,1,2-Trichloroethane	ND	1.0								
1,1-Dichloroethane	ND	1.0								
1,1-Dichloroethene	ND	1.0								
1,2-Dichloroethane	ND	1.0								
1,2-Dichloropropane	ND	1.0								
2-Butanone	ND	5.0								
2-Hexanone	ND	5.0								
4-Methyl-2-pentanone	ND	1.0								
Acetone	ND	10								
Benzene	ND	1.0								
Bromodichloromethane	ND	1.0								
Bromoform	ND	1.0								
Bromomethane	ND	1.0								
Carbon disulfide	ND	1.0								
Carbon tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroethane	ND	1.0								
Chloroform	ND	1.0								
Chloromethane	ND	1.0								
cis-1,2-Dichloroethene	ND	1.0								
cis-1,3-Dichloropropene	ND	1.0								
Dibromochloromethane	ND	1.0								
Ethylbenzene	ND	1.0								
m,p-Xylene	ND	2.0								
Methylene chloride	ND	5.0								
o-Xylene	ND	1.0								
Styrene	ND	1.0								
Tetrachloroethene	ND	1.0								
Toluene	ND	1.0								
trans-1,2-Dichloroethene	ND	1.0								
trans-1,3-Dichloropropene	ND	1.0								
Trichloroethene	ND	1.0								
Vinyl chloride	ND	1.0								
Xylenes, Total	ND	3.0								
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>18.64</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>93.2</i>	<i>75-120</i>	<i>0</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>18.83</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>94.2</i>	<i>80-110</i>	<i>0</i>			
<i>Surr: Dibromofluoromethane</i>	<i>19.73</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>98.6</i>	<i>85-115</i>	<i>0</i>			
<i>Surr: Toluene-d8</i>	<i>19.34</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>96.7</i>	<i>85-110</i>	<i>0</i>			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Wood Environment & Infrastructure Solutions, Inc.
 Work Order: 18071884
 Project: TFS Rochester (3359-15-1040.15)

QC BATCH REPORT

Batch ID: **R241432a** Instrument ID **VMS7** Method: **SW8260C**

LCS		Sample ID: VLCSW1-180802-R241432a				Units: µg/L		Analysis Date: 08/02/18 10:22 AM		
Client ID:		Run ID: VMS7_180802A			SeqNo: 5182759		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	22.86	1.0	20	0	114	75-130	0			
1,1,2,2-Tetrachloroethane	22.6	1.0	20	0	113	75-130	0			
1,1,2-Trichloroethane	21.8	1.0	20	0	109	75-125	0			
1,1-Dichloroethane	20.24	1.0	20	0	101	68-142	0			
1,1-Dichloroethene	21.62	1.0	20	0	108	70-145	0			
1,2-Dichloroethane	20.55	1.0	20	0	103	78-125	0			
1,2-Dichloropropane	21.05	1.0	20	0	105	75-125	0			
2-Butanone	20.32	5.0	20	0	102	55-150	0			
2-Hexanone	20.75	5.0	20	0	104	60-135	0			
4-Methyl-2-pentanone	29.48	1.0	20	0	147	77-178	0			
Acetone	20.96	10	20	0	105	60-160	0			
Benzene	21.01	1.0	20	0	105	85-125	0			
Bromodichloromethane	20.52	1.0	20	0	103	75-125	0			
Bromoform	21.52	1.0	20	0	108	60-125	0			
Bromomethane	16.73	1.0	20	0	83.6	30-185	0			
Carbon disulfide	21.2	1.0	20	0	106	60-165	0			
Carbon tetrachloride	21.55	1.0	20	0	108	65-140	0			
Chlorobenzene	22.47	1.0	20	0	112	80-120	0			
Chloroethane	29.57	1.0	20	0	148	50-140	0			S
Chloroform	21.06	1.0	20	0	105	80-130	0			
Chloromethane	13.64	1.0	20	0	68.2	46-148	0			
cis-1,2-Dichloroethene	20.4	1.0	20	0	102	75-134	0			
cis-1,3-Dichloropropene	21.29	1.0	20	0	106	70-130	0			
Dibromochloromethane	21.01	1.0	20	0	105	60-115	0			
Ethylbenzene	22.14	1.0	20	0	111	76-123	0			
m,p-Xylene	44.76	2.0	40	0	112	75-130	0			
Methylene chloride	18.18	5.0	20	0	90.9	75-140	0			
o-Xylene	22.37	1.0	20	0	112	76-127	0			
Styrene	24.01	1.0	20	0	120	83-137	0			
Tetrachloroethene	24.42	1.0	20	0	122	68-166	0			
Toluene	21.72	1.0	20	0	109	76-125	0			
trans-1,2-Dichloroethene	21.01	1.0	20	0	105	80-140	0			
trans-1,3-Dichloropropene	20.72	1.0	20	0	104	56-132	0			
Trichloroethene	23.6	1.0	20	0	118	84-130	0			
Vinyl chloride	16.92	1.0	20	0	84.6	50-136	0			
Xylenes, Total	67.13	3.0	60	0	112	76-127	0			
<i>Surr: 1,2-Dichloroethane-d4</i>	<i>19.37</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>96.8</i>	<i>75-120</i>	<i>0</i>			
<i>Surr: 4-Bromofluorobenzene</i>	<i>19.58</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>97.9</i>	<i>80-110</i>	<i>0</i>			
<i>Surr: Dibromofluoromethane</i>	<i>20.07</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>100</i>	<i>85-115</i>	<i>0</i>			
<i>Surr: Toluene-d8</i>	<i>19.48</i>	<i>0</i>	<i>20</i>	<i>0</i>	<i>97.4</i>	<i>85-110</i>	<i>0</i>			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Wood Environment & Infrastructure Solutions, Inc.
 Work Order: 18071884
 Project: TFS Rochester (3359-15-1040.15)

QC BATCH REPORT

Batch ID: **R241432a** Instrument ID **VMS7** Method: **SW8260C**

MS		Sample ID: 18071884-16A MS				Units: µg/L		Analysis Date: 08/02/18 06:01 PM		
Client ID: ATR-MW81(27)-G072418		Run ID: VMS7_180802A		SeqNo: 5182776		Prep Date:		DF: 10		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	241.2	10	200	0	121	75-130	0			
1,1,2,2-Tetrachloroethane	225.7	10	200	0	113	75-130	0			
1,1,2-Trichloroethane	226.1	10	200	0	113	75-125	0			
1,1-Dichloroethane	201.4	10	200	0	101	68-142	0			
1,1-Dichloroethene	220.8	10	200	0	110	70-145	0			
1,2-Dichloroethane	203.2	10	200	0	102	78-125	0			
1,2-Dichloropropane	212.7	10	200	0	106	75-125	0			
2-Butanone	198.4	50	200	0	99.2	55-150	0			
2-Hexanone	193.8	50	200	0	96.9	60-135	0			
4-Methyl-2-pentanone	272.8	10	200	0	136	77-178	0			
Acetone	200.6	100	200	0	100	60-160	0			
Benzene	219.5	10	200	0	110	85-125	0			
Bromodichloromethane	203.3	10	200	0	102	75-125	0			
Bromoform	191.4	10	200	0	95.7	60-125	0			
Bromomethane	570.1	10	200	0	285	30-185	0			S
Carbon disulfide	201	10	200	0	100	60-165	0			
Carbon tetrachloride	219.2	10	200	0	110	65-140	0			
Chlorobenzene	231.1	10	200	0	116	80-120	0			
Chloroethane	1151	10	200	0	576	50-140	0			SE
Chloroform	213.1	10	200	0	107	80-130	0			
Chloromethane	121.7	10	200	0	60.8	46-148	0			
cis-1,2-Dichloroethene	756.2	10	200	459.2	148	75-134	0			S
cis-1,3-Dichloropropene	211.3	10	200	0	106	70-130	0			
Dibromochloromethane	195.8	10	200	0	97.9	60-115	0			
Ethylbenzene	235	10	200	0	118	76-123	0			
m,p-Xylene	471.7	20	400	0	118	75-130	0			
Methylene chloride	181.1	50	200	0	90.6	75-140	0			
o-Xylene	235.4	10	200	0	118	76-127	0			
Styrene	243.4	10	200	0	122	83-137	0			
Tetrachloroethene	256.7	10	200	0	128	68-166	0			
Toluene	235.5	10	200	8.7	113	76-125	0			
trans-1,2-Dichloroethene	212.8	10	200	0	106	80-140	0			
trans-1,3-Dichloropropene	201.5	10	200	0	101	56-132	0			
Trichloroethene	247.3	10	200	0	124	84-130	0			
Vinyl chloride	649.5	10	200	414.6	117	50-136	0			
Xylenes, Total	707.1	30	600	0	118	76-127	0			
Surr: 1,2-Dichloroethane-d4	190.7	0	200	0	95.4	75-120	0			
Surr: 4-Bromofluorobenzene	190.2	0	200	0	95.1	80-110	0			
Surr: Dibromofluoromethane	199	0	200	0	99.5	85-115	0			
Surr: Toluene-d8	193.9	0	200	0	97	85-110	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Wood Environment & Infrastructure Solutions, Inc.
 Work Order: 18071884
 Project: TFS Rochester (3359-15-1040.15)

QC BATCH REPORT

Batch ID: **R241432a** Instrument ID **VMS7** Method: **SW8260C**

MSD		Sample ID: 18071884-16A MSD				Units: µg/L		Analysis Date: 08/02/18 06:17 PM		
Client ID: ATR-MW81(27)-G072418		Run ID: VMS7_180802A				SeqNo: 5182777		Prep Date:		DF: 10
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	231.4	10	200	0	116	75-130	241.2	4.15	30	
1,1,2,2-Tetrachloroethane	203.9	10	200	0	102	75-130	225.7	10.1	30	
1,1,2-Trichloroethane	206	10	200	0	103	75-125	226.1	9.3	30	
1,1-Dichloroethane	195.1	10	200	0	97.6	68-142	201.4	3.18	30	
1,1-Dichloroethene	221.7	10	200	0	111	70-145	220.8	0.407	30	
1,2-Dichloroethane	189.4	10	200	0	94.7	78-125	203.2	7.03	30	
1,2-Dichloropropane	196.8	10	200	0	98.4	75-125	212.7	7.77	30	
2-Butanone	168.8	50	200	0	84.4	55-150	198.4	16.1	30	
2-Hexanone	178.2	50	200	0	89.1	60-135	193.8	8.39	30	
4-Methyl-2-pentanone	255.7	10	200	0	128	77-178	272.8	6.47	30	
Acetone	182.8	100	200	0	91.4	60-160	200.6	9.29	30	
Benzene	206.4	10	200	0	103	85-125	219.5	6.15	30	
Bromodichloromethane	188.2	10	200	0	94.1	75-125	203.3	7.71	30	
Bromoform	179.8	10	200	0	89.9	60-125	191.4	6.25	30	
Bromomethane	979.2	10	200	0	490	30-185	570.1	52.8	30	SR
Carbon disulfide	211.8	10	200	0	106	60-165	201	5.23	30	
Carbon tetrachloride	209.4	10	200	0	105	65-140	219.2	4.57	30	
Chlorobenzene	217.7	10	200	0	109	80-120	231.1	5.97	30	
Chloroethane	1269	10	200	0	634	50-140	1151	9.72	30	SE
Chloroform	199	10	200	0	99.5	80-130	213.1	6.84	30	
Chloromethane	140.8	10	200	0	70.4	46-148	121.7	14.6	30	
cis-1,2-Dichloroethene	746.1	10	200	459.2	143	75-134	756.2	1.34	30	S
cis-1,3-Dichloropropene	193.2	10	200	0	96.6	70-130	211.3	8.95	30	
Dibromochloromethane	182.9	10	200	0	91.4	60-115	195.8	6.81	30	
Ethylbenzene	221.5	10	200	0	111	76-123	235	5.91	30	
m,p-Xylene	437.8	20	400	0	109	75-130	471.7	7.45	30	
Methylene chloride	171.1	50	200	0	85.6	75-140	181.1	5.68	30	
o-Xylene	218.3	10	200	0	109	76-127	235.4	7.54	30	
Styrene	224.3	10	200	0	112	83-137	243.4	8.17	30	
Tetrachloroethene	246.9	10	200	0	123	68-166	256.7	3.89	30	
Toluene	225.5	10	200	8.7	108	76-125	235.5	4.34	30	
trans-1,2-Dichloroethene	207.8	10	200	0	104	80-140	212.8	2.38	30	
trans-1,3-Dichloropropene	189.7	10	200	0	94.8	56-132	201.5	6.03	30	
Trichloroethene	229.9	10	200	0	115	84-130	247.3	7.29	30	
Vinyl chloride	622.9	10	200	414.6	104	50-136	649.5	4.18	30	
Xylenes, Total	656.1	30	600	0	109	76-127	707.1	7.48	30	
Surr: 1,2-Dichloroethane-d4	189.6	0	200	0	94.8	75-120	190.7	0.578	30	
Surr: 4-Bromofluorobenzene	192.6	0	200	0	96.3	80-110	190.2	1.25	30	
Surr: Dibromofluoromethane	200	0	200	0	100	85-115	199	0.501	30	
Surr: Toluene-d8	196	0	200	0	98	85-110	193.9	1.08	30	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Wood Environment & Infrastructure Solutions, Inc.

QC BATCH REPORT

Work Order: 18071884

Project: TFS Rochester (3359-15-1040.15)

Batch ID: **R241432a**

Instrument ID **VMS7**

Method: **SW8260C**

The following samples were analyzed in this batch:

18071884-16A	18071884-25A	18071884-26A
18071884-32A	18071884-33A	18071884-35A
18071884-39A	18071884-40A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Wood Environment & Infrastructure Solutions, Inc.
Work Order: 18071884
Project: TFS Rochester (3359-15-1040.15)

QC BATCH REPORT

Batch ID: **R241288B** Instrument ID **TOC3** Method: **SW9060A**

MBLK		Sample ID: MBLK-R241288B				Units: mg/L		Analysis Date: 07/30/18 03:41 PM		
Client ID:		Run ID: TOC3_180730A		SeqNo: 5176774		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	ND	0.50								

LCS		Sample ID: LCS-R241288B				Units: mg/L		Analysis Date: 07/30/18 03:41 PM		
Client ID:		Run ID: TOC3_180730A		SeqNo: 5176775		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	4.886	0.50	5	0	97.7	91-110	0			

The following samples were analyzed in this batch:

18071884-01B	18071884-02B	18071884-03B
18071884-04B	18071884-05B	18071884-06B
18071884-07B	18071884-08B	18071884-09B
18071884-10B	18071884-11B	18071884-12B
18071884-13B	18071884-14B	18071884-15B
18071884-16B	18071884-17B	18071884-18B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Wood Environment & Infrastructure Solutions, Inc.
Work Order: 18071884
Project: TFS Rochester (3359-15-1040.15)

QC BATCH REPORT

Batch ID: **R241410** Instrument ID **TOC3** Method: **SW9060A**

MBLK		Sample ID: MBLK-R241410				Units: mg/L		Analysis Date: 07/31/18 04:57 PM			
Client ID:		Run ID: TOC3_180731A				SeqNo: 5179943		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Organic Carbon, Total	ND	0.50									

LCS		Sample ID: LCS-R241410				Units: mg/L		Analysis Date: 07/31/18 04:57 PM			
Client ID:		Run ID: TOC3_180731A				SeqNo: 5179944		Prep Date:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Organic Carbon, Total	5.143	0.50	5	0	103	91-110	0				

MS		Sample ID: 18071884-01B MS				Units: mg/L		Analysis Date: 07/31/18 04:57 PM			
Client ID: ATR-MW25(16.4)-G072318		Run ID: TOC3_180731A				SeqNo: 5179946		Prep Date:		DF: 4	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Organic Carbon, Total	24.89	2.0	20	4.578	102	87-120	0				

MSD		Sample ID: 18071884-01B MSD				Units: mg/L		Analysis Date: 07/31/18 04:57 PM			
Client ID: ATR-MW25(16.4)-G072318		Run ID: TOC3_180731A				SeqNo: 5179947		Prep Date:		DF: 4	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual	
Organic Carbon, Total	24.95	2.0	20	4.578	102	87-120	24.89	0.225	10		

The following samples were analyzed in this batch:

18071884-01B	18071884-02B	18071884-05B
18071884-06B	18071884-07B	18071884-08B
18071884-09B	18071884-11B	18071884-13B
18071884-19B	18071884-20B	18071884-21B
18071884-22B	18071884-23B	18071884-24B
18071884-25B	18071884-26B	18071884-27B
18071884-28B	18071884-29B	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Wood Environment & Infrastructure Solutions, Inc.
Work Order: 18071884
Project: TFS Rochester (3359-15-1040.15)

QC BATCH REPORT

Batch ID: **R241540** Instrument ID **TOC3** Method: **SW9060A**

MBLK	Sample ID: MBLK-R241540		Units: mg/L		Analysis Date: 08/02/18 01:31 PM					
Client ID:	Run ID: TOC3_180802A		SeqNo: 5183416		Prep Date:					
					DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Organic Carbon, Total ND 0.50

LCS	Sample ID: LCS-R241540		Units: mg/L		Analysis Date: 08/02/18 01:31 PM					
Client ID:	Run ID: TOC3_180802A		SeqNo: 5183417		Prep Date:					
					DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Organic Carbon, Total 5.098 0.50 5 0 102 91-110 0

MS	Sample ID: 18071759-01CMS		Units: mg/L		Analysis Date: 08/02/18 01:31 PM					
Client ID:	Run ID: TOC3_180802A		SeqNo: 5183509		Prep Date:					
					DF: 4					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Organic Carbon, Total 22.43 2.0 20 1.776 103 87-120 0

MSD	Sample ID: 18071759-01CMSD		Units: mg/L		Analysis Date: 08/02/18 01:31 PM					
Client ID:	Run ID: TOC3_180802A		SeqNo: 5183510		Prep Date:					
					DF: 4					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Organic Carbon, Total 22.16 2.0 20 1.776 102 87-120 22.43 1.18 10

The following samples were analyzed in this batch:

18071884-30B	18071884-31B	18071884-32B
18071884-33B	18071884-34B	18071884-35B
18071884-36B	18071884-37B	18071884-38B
18071884-39B	18071884-40B	18071884-41B
18071884-42B	18071884-43B	18071884-44B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Wood Environment & Infrastructure Solutions, Inc.
Work Order: 18071884
Project: TFS Rochester (3359-15-1040.15)

QC BATCH REPORT

Batch ID: **R241590A** Instrument ID **TOC3** Method: **SW9060A**

MBLK		Sample ID: MBLK-R241590A				Units: mg/L		Analysis Date: 08/03/18 02:05 PM		
Client ID:		Run ID: TOC3_180803A		SeqNo: 5184473		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	ND	0.50								

LCS		Sample ID: LCS-R241590A				Units: mg/L		Analysis Date: 08/03/18 02:05 PM		
Client ID:		Run ID: TOC3_180803A		SeqNo: 5184474		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Organic Carbon, Total	5.034	0.50	5	0	101	91-110	0			

The following samples were analyzed in this batch:

18071884-31B	18071884-33B	18071884-37B
18071884-41B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



Ship To: **ALS Environmental**
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 Cincinnati, Ohio 45242
 Phone: (513) 733-5336
 Fax: (513) 733-5347

Field Chain-of-Custody Record

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REV 10/2017

REGULAR Status RUSH Status RESULTS REQUIRED BY: (Date) 18071884
 CONTACT ALS ENVIRONMENTAL PRIOR TO SENDING SAMPLES

Date: 7/26/18 Purchase Order No.: C012605142
 Company Name: Wood E&TS Project No.: 3359-15-1040.15
 Address: 521 Beyers Ra., Suite 204 Sampling Site: Textron, Inc.
Miamisburg OH 45432
City State Zip
 Person to Contact: Paul Stork Billing Address (if different): _____
 Email Address: paul.stork@woodpic.com
 Telephone (437): 859-3600
 Alternate Contact: Russell Dornbusch

OH VAP: YES NO BUSTR: YES NO NELAC: YES NO

Preservation Key #	Sample Type / Matrix Key Abbr.	# of Sample Containers	ANALYSIS REQUESTED																	
			VOC	8260B	TOC															
1,3,9	W	4	X	X																
1,3,9	W	4	X	X																
1,3,9	W	4	X	X																
1,3,9	W	4	X	X																
1,3,9	W	4	X	X																
1,3,9	W	4	X	X																
1,3,9	W	4	X	X																
1,3,9	W	4	X	X																
1,3,9	W	4	X	X																
1,3,9	W	4	X	X																

ALS Lab ID	Sample ID / Description	Date	Time
1	ATR-MW25(16.4)-G072318	7/23/18	1155
2	ATR-MW25(32.6)-G072318		1245
3	ATR-MW15-G072318		1435
4	ATR-MW15-G072318-EB		1500
5	ATR-OW5(44)-G072318		1430
6	ATR-OW5(35)-G072318		1310
7	ATR-OW5(16)-G072318		1145
8	ATR-MW24(55.4)-G072318-1410		1410
9	ATR-MW24(55.4)-G072318-1410-R		1410
10	ATR-MW24(24.9)-G072318-1315		1315

Notes:

Preservation Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₈ 6-NaHSO₃ 7-NaOH/ZnAcetate 8-Other 9-4°C Matrix Key: A-Air B-Bulk S-Soil W-Water

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.

Relinquished By: (Signature) <u>K. Amann</u>	Time / Date <u>1225 / 7/26/18</u>	Received By: (Signature) <u>Paul Stork</u>	Time / Date <u>7/26/18 1220</u>
Relinquished By: (Signature) <u>Paul Stork</u>	Time / Date <u>14:00 / 7-26-18</u>	Received By: (Signature) <u>Yina Ji</u>	Time / Date <u>7</u>
Relinquished By: (Signature) <u>MF</u>	Time / Date <u>7-30-18</u>	Received By: (Signature)	Time / Date

ALS LAB USE ONLY			
COOLER TEMP: <u>SP2</u> <u>46</u> °C	TAKEN WITH IR#:	119063	119059
COOLING METHOD:	NONE	COOLER	WET ICE DRY ICE ICE PACK
DELIVERY METHOD:	CLIENT	DROP BOX	FEDEX UPS
STD MAIL	PRTY MAIL	ALS	COURIER OTHER:
CUSTODY SEALS:	NOT REQUIRED	COOLER	PACKAGE SAMPLES
pH ADJUSTMENTS:			



Ship To: **ALS Environmental**
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Phone: (513) 733-5336
Fax: (513) 733-5347

Field Chain-of-Custody Record

Page 2 of 5

180 11884
46534

REV 10/2017

Date: 7/26/2018 Purchase Order No.: C012605142
Company Name: Wood E&IS Project No.: 3355-15-1040.15
Address: 521 Byers Rd Suite 204 Sampling Site: Textem Inc
Miamishang Ohio 45432
City State Zip
Person to Contact: Paul Stork Billing Address (if different):
Email Address: paul.stork@woodplc.com
Telephone: 855-3600
Alternate Contact: Russell Drubusch

REGULAR Status RUSH Status RESULTS REQUIRED BY: (Date) _____
CONTACT ALS ENVIRONMENTAL PRIOR TO SENDING SAMPLES
OH VAP: YES NO BUSTR: YES NO NELAC: YES NO

ALS Lab ID	Sample ID / Description	Date	Time	Preservation Key #	Sample Type / Matrix Key Abbr.	# of Sample Containers	ANALYSIS REQUESTED													
11	ATR-OW2(55)-G072318-1145	7/23/18	1145	1,3,9	W	4	X	X												
12	ATR-OW2(33)-G072318-1610	7/23/18	1610	1,3,9	W	4	X	X												
13	ATR-OW4(35)-G072318	7/23/18	1545	1,3,9	W	4	X	X												
14	ATR-MW59(29)-G072418	7/24/18	1635				X	X												
15	ATR-MW59(29)-G072418-R		1635				X	X												
16	ATR-MW81(27)-G072418		1530				X	X												
17	ATR-PM2-G072418		1420				X	X												
18	ATR-OW1(28)-G072418		1125				X	X												
19	ATR-OW1(28)-G072418-EB		1140				X	X												
20	ATR-OW1(39)-G072418		1015				X	X												

Notes:

Preservation Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₈ 6-NaHSO₃ 7-NaOH/ZnAcetate 8-Other 9-4°C Matrix Key: A-Air B-Bulk S-Soil W-Water

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.

Relinquished By: (Signature) <u>K. Drubusch</u>	Time / Date <u>12:20 / 7-26-18</u>	Received By: (Signature) <u>Paul Stork</u>	Time / Date <u>12:20 / 7-26-18</u>
Relinquished By: (Signature) <u>Paul Stork</u>	Time / Date <u>14:00 / 7-25-18</u>	Received By: (Signature) <u>U... ..</u>	Time / Date
Relinquished By: (Signature) <u>ME</u>	Time / Date <u>7:30 / 18</u>	Received By: (Signature)	Time / Date

ALS LAB USE ONLY

COOLER TEMP: PHIZ SKZ 4.6°C TAKEN WITH IR#: 119063 119059

COOLING METHOD: NONE COOLER WET ICE DRY ICE ICE PACK

DELIVERY METHOD: CLIENT DROP BOX FEDEX UPS
STD MAIL PRTY MAIL ALS COURIER OTHER: _____

CUSTODY SEALS: NOT REQUIRED COOLER PACKAGE SAMPLES

pH ADJUSTMENTS: _____

103



Ship To: **ALS Environmental**
 4388 Glendale Milford Rd.
 Cincinnati, Ohio 45242
 Phone: (513) 733-5336
 Fax: (513) 733-5347

Field Chain-of-Custody Record

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18071884
 46533

REV 10/2017

Date: 7/26/18 Purchase Order No.: C012605142
 Company Name: WOOD E&IS Project No.: 3355-15-1040.15
 Address: 521 Byers Rd. Suite 204 Sampling Site: Textum Inc
Miamishburg Ohio 45432
 City State Zip
 Person to Contact: Paul Stark Billing Address (if different): _____
 Email Address: paul.stark@woodenv.com
 Telephone: 937-859-3600
 Alternate Contact: Russell Debusch

REGULAR Status RUSH Status RESULTS REQUIRED BY: (Date) _____
 CONTACT ALS ENVIRONMENTAL PRIOR TO SENDING SAMPLES
 OH VAP: YES NO BUSTR: YES NO NELAC: YES NO

ALS Lab ID	Sample ID / Description	Date	Time	Preservation Key #	Sample Type / Matrix Key Abbr.	# of Sample Containers	ANALYSIS REQUESTED													
21	ATR-OW4(54)-G072418	7/24/18	0910	1,39	W	4	X	X												
22	ATR-MW82(58)-G072418		1655																	
23	ATR-MW25(45.2)-G072418		0915																	
24	ATR-MW14-G072418		1135																	
25	ATR-PM-3-G072418		1415																	
26	ATR-PM-3-G072418-R		1415																	
27	ATR-MW62(36)-G072418-1740		1740																	
28	ATR-OW3(35)-G072418-0925		0925																	
29	ATR-OW3(55)-G072418-1050		1050																	
30	ATR-MW20(35)-G072418-1455		1455																	

Notes:

Preservation Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₈ 6-NaHSO₃ 7-NaOH/ZnAcetate 8-Other 9-4°C Matrix Key: A-Air B-Bulk S-Soil W-Water

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.

Relinquished By: (Signature) <u>K. Amun</u>	Time / Date <u>12:30 / 7-26-18</u>	Received By: (Signature) <u>Personation</u>	Time / Date <u>7:26-18</u>
Relinquished By: (Signature) <u>Personation</u>	Time / Date <u>14:00 / 7-26-18</u>	Received By: (Signature) <u>Umin Jr</u>	Time / Date
Relinquished By: (Signature) <u>NE</u>	Time / Date <u>7:30-18</u>	Received By: (Signature)	Time / Date

ALS LAB USE ONLY	
COOLER TEMP: <u>PH12 SR2 4.6</u>	TAKEN WITH IRI#: 119063 119059
COOLING METHOD: NONE COOLER WET ICE DRY ICE ICE PACK	
DELIVERY METHOD: CLIENT DROP BOX FEDEX UPS	
STD MAIL PRY MAIL ALS COURIER OTHER: _____	
CUSTODY SEALS: NOT REQUIRED COOLER PACKAGE SAMPLES	
pH ADJUSTMENTS:	

TRR



Ship To: **ALS Environmental**
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 Cincinnati, Ohio 45242
 Phone: (513) 733-5336
 Fax: (513) 733-5347

Field Chain-of-Custody Record

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180 11804
 46528

REV 10/2017

Date: 7/26/18 Purchase Order No.: C012605142
 Company Name: Wood E&IS Project No.: 3359-15-1040.15
 Address: 521 Byers Rd., Suite 204 Sampling Site: Textron, Inc.
Miamisburg OH 45432
 City State Zip
 Person to Contact: Paul Stork Billing Address (if different): _____
 Email Address: paul.stork@woodpk.com
 Telephone (937): 859-3600
 Alternate Contact: Russell Dornbusch

REGULAR Status RUSH Status RESULTS REQUIRED BY: (Date) _____
 CONTACT ALS ENVIRONMENTAL PRIOR TO SENDING SAMPLES
 OH VAP: YES NO BUSTR: YES NO NELAC: YES NO

ALS Lab ID	Sample ID / Description	Date	Time	Preservation Key #	Sample Type / Matrix Key Abbr.	# of Sample Containers	ANALYSIS REQUESTED													
31	ATR-MW20(51)-G072418-1615	7/24/18	1615	1,3,9	W	4	X	X												
32	ATR-MW72(32)-G072518	7/25/18	1025																	
33	ATR-MW71(33)-G072518		1130																	
34	ATR-MW67(30)-G072518		1225																	
35	ATR-MW68(32)-G072518		1325																	
36	ATR-MW77(41)-G072518		1540																	
37	ATR-MW78(35)-G072518		1405																	
38	ATR-MW78(35)-G072518-EB		1435																	
39	ATR-MW76(30)-G072518		1240																	
40	ATR-MW76(30)-G072518-R		1240																	

Notes:

Preservation Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₈ 6-NaHSO₃ 7-NaOH/ZnAcetate 8-Other 9-4°C Matrix Key: A-Air B-Bulk S-Soil W-Water

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.

Relinquished By: (Signature) <u>K. Amern</u>	Time / Date <u>12:20 / 7-26-18</u>	Received By: (Signature) <u>Russell Dornbusch</u>	Time / Date <u>12:20 / 7-26-18</u>
Relinquished By: (Signature) <u>[Signature]</u>	Time / Date <u>14:00 / 7-26-18</u>	Received By: (Signature) <u>[Signature]</u>	Time / Date _____
Relinquished By: (Signature) <u>NE</u>	Time / Date <u>7:30-18 10:55</u>	Received By: (Signature) _____	Time / Date _____

ALS LAB USE ONLY

COOLER TEMP: PHZ SRZ 4.6°C TAKEN WITH IR#: 119063 119059

COOLING METHOD: NONE COOLER WET ICE DRY ICE ICE PACK

DELIVERY METHOD: CLIENT DROP BOX FEDEX UPS
 STD MAIL PRY MAIL ALS COURIER OTHER: _____

CUSTODY SEALS: NOT REQUIRED COOLER PACKAGE SAMPLES

pH ADJUSTMENTS: _____



Ship To: **ALS Environmental**
 4388 Glendale Milford Rd.
 Cincinnati, Ohio 45242
 Phone: (513) 733-5336
 Fax: (513) 733-5347

Field Chain-of-Custody Record

Date: 7/26/18 Purchase Order No.: C012605142
 Company Name: Wood E & IS Project No.: 3359-15-1040.15
 Address: 521 Byers Rd., Suite 204 Sampling Site: Textron, Inc.
Miamisburg OH 45432
City State Zip
 Person to Contact: Paul Stork Billing Address (if different): _____
 Email Address: paul.stork@woodplc.com
 Telephone (937): 859-3600
 Alternate Contact: Russell Dornbusch

REGULAR Status RUSH Status RESULTS REQUIRED BY: (Date) _____
 CONTACT ALS ENVIRONMENTAL PRIOR TO SENDING SAMPLES
 OH VAP: YES NO BUSTR: YES NO NELAC: YES NO

ALS Lab ID	Sample ID / Description	Date	Time
U1	ATR-MW12-G072618	7/26/18	0910
U2	ATR-MW13-G072618	↓	1010
U3	ATR-MW13-G072618-EB		1000
U4	ATR-MW16C-G072618		0845
U5	ATR-072618-TB1		1215

Preservation Key #	Sample Type / Matrix Key Abbr.	# of Sample Containers	ANALYSIS REQUESTED														
			VOCs	8260B	TOC												
1,3,9	W	4	X	X													
1,3,9	W	4	X	X													
1,3,9	W	4	X	X													
1,3,9	W	4	X	X													
1,9	W	1	X	X													

Notes: _____

Preservation Key: 1-HCl 2-HNO₃ 3-H₂SO₄ 4-NaOH 5-Na₂S₂O₈ 6-NaHSO₃ 7-NaOH/ZnAcetate 8-Other 9-4°C Matrix Key: A-Air B-Bulk S-Soil W-Water

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY.

Relinquished By: <u>K. Mann</u>	Time / Date: <u>12:20 / 7-26-18</u>	Received By: <u>Paul Stork</u>	Time / Date: <u>12:20 / 7-26-18</u>
Relinquished By: <u>Paul Stork</u>	Time / Date: <u>14:00 / 7-26-18</u>	Received By: <u>Chris J</u>	Time / Date: _____
Relinquished By: <u>NF</u>	Time / Date: <u>7:30/18</u>	Received By: _____	Time / Date: _____

ALS LAB USE ONLY

COOLER TEMP: PH2 5K2 4.0°C TAKEN WITH IR#: 119063 119059
 COOLING METHOD: NONE COOLER WET ICE DRY ICE ICE PACK
 DELIVERY METHOD: CLIENT DROP BOX FEDEX UPS
 STD MAIL PRY MAIL ALS COURIER OTHER: _____
 CUSTODY SEALS: NOT REQUIRED COOLER PACKAGE SAMPLES
 pH ADJUSTMENTS: _____

RR

Sample Receipt Checklist

Client Name: **WOOD-DAYTON**

Date/Time Received: **28-Jul-18 10:30**

Work Order: **18071884**

Received by: **KRW**

Checklist completed by Keith Wierenga 30-Jul-18
eSignature Date

Reviewed by: Tom Bramish 30-Jul-18
eSignature Date

Matrices: Water

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature in compliance?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample(s) received on ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Temperature(s)/Thermometer(s):	<u>4.6/4.6 C</u>		<u>SR2</u>
Cooler(s)/Kit(s):	<u> </u>		
Date/Time sample(s) sent to storage:	<u>7/30/2018 12:20:48 PM</u>		
Water - VOA vials have zero headspace?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	N/A <input type="checkbox"/>
pH adjusted by:	<u> </u>		

Login Notes: One vial broken upon receipt.

Client Contacted: _____ Date Contacted: _____ Person Contacted: _____

Contacted By: _____ Regarding: _____

Comments:

CorrectiveAction:



August 2, 2018

Paul Stork
Wood Environment & Infrastructure Solutions, Inc
521 Byers Road
Suite 204
Miamisburg, OH 45342

RE: **TEXTRON INC / 3359-15-1040.15**

Pace Workorder: 27531

Dear Paul Stork:

Enclosed are the analytical results for sample(s) received by the laboratory on Tuesday, July 24, 2018. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Ruth Welsh 08/02/2018
Ruth.Welsh@pacelabs.com

Customer Service Representative

Enclosures

As a valued client we would appreciate your comments on our service.
Please email PAESfeedback@pacelabs.com.

Total Number of Pages 22



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LABORATORY ACCREDITATIONS & CERTIFICATIONS

Accreditor:	Pennsylvania Department of Environmental Protection, Bureau of Laboratories
Accreditation ID:	02-00538
Scope:	NELAP Non-Potable Water
Accreditor:	West Virginia Department of Environmental Protection, Division of Water and Waste Management
Accreditation ID:	395
Scope:	Non-Potable Water
Accreditor:	South Carolina Department of Health and Environmental Control, Office of Environmental Laboratory Certification
Accreditation ID:	89009003
Scope:	Clean Water Act (CWA); Resource Conservation and Recovery Act (RCRA)
Accreditor:	State of Virginia
Accreditation ID:	460201
Scope:	Non-Potable Water
Accreditor:	NELAP: New Jersey, Department of Environmental Protection
Accreditation ID:	PA026
Scope:	Non-Potable Water
Accreditor:	NELAP: New York, Department of Health Wadsworth Center
Accreditation ID:	11815
Scope:	Non-Potable Water
Accreditor:	State of Connecticut, Department of Public Health, Division of Environmental Health
Accreditation ID:	PH-0263
Scope:	Clean Water Act (CWA) Resource Conservation and Recovery Act (RCRA)
Accreditor:	NELAP: Texas, Commission on Environmental Quality
Accreditation ID:	T104704453-09-TX
Scope:	Non-Potable Water
Accreditor:	State of New Hampshire
Accreditation ID:	299409
Scope:	Non-potable water
Accreditor:	State of Georgia
Accreditation ID:	Chapter 391-3-26
Scope:	As per the Georgia EPD Rules and Regulations for Commercial Laboratories, PAES is accredited by the Pennsylvania Department of Environmental Protection Bureau of Laboratories under the National Environmental Laboratory Approval Program (NELAC).



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SAMPLE SUMMARY

Workorder: 27531 TEXTRON INC □3359-15-1040.15

Lab ID	Sample ID	Matrix	Date Collected	Date Received
275310001	ATR-MW16-G071918-1445	Water	7/19/2018 14:45	7/24/2018 11:00
275310002	ATR-MW17-G071918	Water	7/19/2018 15:30	7/24/2018 11:00
275310003	ATR-□VI-2(32.5)-G071918	Water	7/19/2018 16:40	7/24/2018 11:00
275310004	ATR-MW17-G071918R	Water	7/19/2018 15:30	7/24/2018 11:00
275310005	ATR-□VI-2(17.5)-G071918	Water	7/19/2018 17:50	7/24/2018 11:00
275310006	FIELD BLAN□	Water	7/19/2018 14:10	7/24/2018 11:00
275310007	ATR-MW26(17.5)-G072018	Water	7/20/2018 09:10	7/24/2018 11:00
275310008	ATR-MW26(28.8)-G072018	Water	7/20/2018 10:35	7/24/2018 11:00
275310009	ATR-MW26(58.2)-G072018	Water	7/20/2018 11:35	7/24/2018 11:00



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ANALYTICAL RESULTS

Workorder: 27531 TEXTRON INC □3359-15-1040.15

Lab ID: **275310001** Date Received: 7/24/2018 11:00 Matrix: Water
 Sample ID: **ATR-MW16-G071918-1445** Date Collected: 7/19/2018 14:45

Parameters	Results □nits	PQL	MDL DF	Analy□ed	By	Qualifiers
------------	---------------	-----	--------	----------	----	------------

RISK - PAES

Analysis Desc: AM20GAX	Analytical Method: AM20GAX					
Methane	24000 ug/l	0.50	0.020 1	7/27/2018 12:10	BW	n
Ethane	380 ug/l	0.10	0.0070 1	7/27/2018 12:10	BW	n
Ethene	0.10 U ug/l	0.10	0.0050 1	7/27/2018 12:10	BW	n



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ANALYTICAL RESULTS

Workorder: 27531 TEXTRON INC □3359-15-1040.15

Lab ID: **275310002** Date Received: 7/24/2018 11:00 Matrix: Water
 Sample ID: **ATR-MW17-G071918** Date Collected: 7/19/2018 15:30

Parameters	Results □nits	PQL	MDL DF	Analy□ed	By	Qualifiers
------------	---------------	-----	--------	----------	----	------------

RISK - PAES

Analysis Desc: AM20GAX	Analytical Method: AM20GAX					
Methane	4500 ug/l	0.50	0.020 1	7/27/2018 13:41	BW	n
Ethane	0.10 U ug/l	0.10	0.0070 1	7/27/2018 13:41	BW	n
Ethene	0.048J ug/l	0.10	0.0050 1	7/27/2018 13:41	BW	n



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ANALYTICAL RESULTS

Workorder: 27531 TEXTRON INC □3359-15-1040.15

Lab ID: **275310003** Date Received: 7/24/2018 11:00 Matrix: Water
 Sample ID: **ATR-ZVI-2(32.5)-G071918** Date Collected: 7/19/2018 16:40

Parameters	Results □nits	PQL	MDL DF	Analy□ed	By	Qualifiers
------------	---------------	-----	--------	----------	----	------------

RISK - PAES

Analysis Desc: AM20GAX		Analytical Method: AM20GAX				
Methane	21000 ug/l	0.50	0.020	1	7/27/2018 13:55	BW n
Ethane	140 ug/l	0.10	0.0070	1	7/27/2018 13:55	BW n
Ethene	0.025J ug/l	0.10	0.0050	1	7/27/2018 13:55	BW n



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ANALYTICAL RESULTS

Workorder: 27531 TEXTRON INC □3359-15-1040.15

Lab ID: **275310004** Date Received: 7/24/2018 11:00 Matrix: Water
 Sample ID: **ATR-MW17-G071918R** Date Collected: 7/19/2018 15:30

Parameters	Results □nits	PQL	MDL DF	Analy□ed	By	Qualifiers
------------	---------------	-----	--------	----------	----	------------

RISK - PAES

Analysis Desc: AM20GAX	Analytical Method: AM20GAX					
Methane	4800 ug/l	0.50	0.020 1	7/27/2018 14:12	BW	n
Ethane	0.10 U ug/l	0.10	0.0070 1	7/27/2018 14:12	BW	n
Ethene	0.055J ug/l	0.10	0.0050 1	7/27/2018 14:12	BW	n



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ANALYTICAL RESULTS

Workorder: 27531 TEXTRON INC □3359-15-1040.15

Lab ID: **275310005** Date Received: 7/24/2018 11:00 Matrix: Water
 Sample ID: **ATR-ZVI-2(17.5)-G071918** Date Collected: 7/19/2018 17:50

Parameters	Results □nits	PQL	MDL DF	Analy□ed	By	Qualifiers
------------	---------------	-----	--------	----------	----	------------

RISK - PAES

Analysis Desc: AM20GAX	Analytical Method: AM20GAX					
Methane	22000 ug/l	0.50	0.020 1	7/27/2018 14:29	BW	n
Ethane	130 ug/l	0.10	0.0070 1	7/27/2018 14:29	BW	n
Ethene	0.0087J ug/l	0.10	0.0050 1	7/27/2018 14:29	BW	n



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ANALYTICAL RESULTS

Workorder: 27531 TEXTRON INC □3359-15-1040.15

Lab ID: **275310006** Date Received: 7/24/2018 11:00 Matrix: Water
 Sample ID: **FIELD BLANK** Date Collected: 7/19/2018 14:10

Parameters	Results □nits	PQL	MDL DF	Analy□ed	By	Qualifiers
------------	---------------	-----	--------	----------	----	------------

RISK - PAES

Analysis Desc: AM20GAX		Analytical Method: AM20GAX				
Methane	0.14J ug/l	0.50	0.020	1	8/1/2018 08:26	BW n
Ethane	0.10 U ug/l	0.10	0.0070	1	8/1/2018 08:26	BW n
Ethene	0.0058J ug/l	0.10	0.0050	1	8/1/2018 08:26	BW n



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ANALYTICAL RESULTS

Workorder: 27531 TEXTRON INC □3359-15-1040.15

Lab ID: **275310007** Date Received: 7/24/2018 11:00 Matrix: Water
 Sample ID: **ATR-MW26(17.5)-G072018** Date Collected: 7/20/2018 09:10

Parameters	Results □nits	PQL	MDL DF	Analy□ed	By	Qualifiers
------------	---------------	-----	--------	----------	----	------------

RISK - PAES

Analysis Desc: AM20GAX	Analytical Method: AM20GAX					
Methane	21000 ug/l	0.50	0.020 1	7/27/2018 14:59	BW	n
Ethane	120 ug/l	0.10	0.0070 1	7/27/2018 14:59	BW	n
Ethene	0.010J ug/l	0.10	0.0050 1	7/27/2018 14:59	BW	n



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ANALYTICAL RESULTS

Workorder: 27531 TEXTRON INC □3359-15-1040.15

Lab ID: **275310008** Date Received: 7/24/2018 11:00 Matrix: Water
 Sample ID: **ATR-MW26(28.8)-G072018** Date Collected: 7/20/2018 10:35

Parameters	Results □nits	PQL	MDL DF	Analy□ed	By	Qualifiers
------------	---------------	-----	--------	----------	----	------------

RISK - PAES

Analysis Desc: AM20GAX	Analytical Method: AM20GAX					
Methane	22000 ug/l	0.50	0.020 1	7/27/2018 15:13	BW	n
Ethane	83 ug/l	0.10	0.0070 1	7/27/2018 15:13	BW	n
Ethene	0.50 ug/l	0.10	0.0050 1	7/27/2018 15:13	BW	n



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ANALYTICAL RESULTS

Workorder: 27531 TEXTRON INC □3359-15-1040.15

Lab ID: **275310009** Date Received: 7/24/2018 11:00 Matrix: Water
 Sample ID: **ATR-MW26(58.2)-G072018** Date Collected: 7/20/2018 11:35

Parameters	Results □nits	PQL	MDL DF	Analy□ed	By	Qualifiers
------------	---------------	-----	--------	----------	----	------------

RISK - PAES

Analysis Desc: AM20GAX	Analytical Method: AM20GAX					
Methane	6700 ug/l	0.50	0.020 1	7/27/2018 15:25	BW	n
Ethane	11 ug/l	0.10	0.0070 1	7/27/2018 15:25	BW	n
Ethene	0.10 U ug/l	0.10	0.0050 1	7/27/2018 15:25	BW	n



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ANALYTICAL RESULTS QUALIFIERS

Workorder: 27531 TEXTRON INC □3359-15-1040.15

DEFINITIONS/QUALIFIERS

- MDL Method Detection Limit. Can be used synonymously with LOD; Limit Of Detection.
- PQL Practical Quantitation Limit. Can be used synonymously with LOQ; Limit Of Quantitation.
- ND Not detected at or above reporting limit.
- DF Dilution Factor.
- S Surrogate.
- RPD Relative Percent Difference.
- Rec Percent Recovery.
- Indicates the compound was analyzed for, but not detected at or above the noted concentration.
- J Estimated concentration greater than the set method detection limit (MDL) and less than the set reporting limit (PQL).
-
- n The laboratory does not hold NELAP/TNI accreditation for this method or analyte.



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QUALITY CONTROL DATA

Workorder: 27531 TEXTRON INC □3359-15-1040.15

QC Batch: DISG 6978 Analysis Method: AM20GAX
 QC Batch Method: AM20GAX
 Associated Lab Samples: 275310001, 275310002, 275310003, 275310004, 275310005, 275310007, 275310008, 275310009

METHOD BLAN□: 56648

Parameter	□ nits	Blank Result	Reporting Limit	Qualifiers
RIS□				
Methane	ug□	0.50 □	0.50	n
Ethane	ug□	0.10 □	0.10	n
Ethene	ug□	0.10 □	0.10	n

LABORATORY CONTROL SAMPLE □ LCSD: 56649 56650

Parameter	□ nits	Spike Conc.	LCS Result	LCSD Result	□ Rec	LCSD	□ Rec	□ Rec Limit	RPD	Max RPD	Qualifiers
RIS□											
Methane	ug□	750	730	730	97	98	80-120	0.76	20		n
Ethane	ug□	38	41	41	109	108	80-120	0.5	20		n
Ethene	ug□	35	38	37	107	106	80-120	0.86	20		n



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QUALITY CONTROL DATA

Workorder: 27531 TEXTRON INC □3359-15-1040.15

QC Batch: DISG6984 Analysis Method: AM20GAX
 QC Batch Method: AM20GAX
 Associated Lab Samples: 275310006

METHOD BLAN□: 56694

Parameter	□nits	Blank Result	Reporting Limit	Qualifiers
RIS□				
Methane	ug□	0.50 □	0.50 n	
Ethane	ug□	0.10 □	0.10 n	
Ethene	ug□	0.10 □	0.10 n	

LABORATORY CONTROL SAMPLE □ LCSD: 56695 56696

Parameter	□nits	Spike Conc.	LCS Result	LCSD Result	□ Rec	LCSD	□ Rec	□ Rec Limit	RPD	Max RPD	Qualifiers
RIS□											
Methane	ug□	750	680	680	91	91	80-120	0.39	20		n
Ethane	ug□	38	37	37	97	98	80-120	1.2	20		n
Ethene	ug□	35	34	34	96	96	80-120	0.38	20		n

MATRIX SPI□E □ MATRIX SPI□E D□PLICATE: 56715 56716 Original: 275490001

Parameter	□nits	Original Result	Spike Conc.	MS Result	MSD Result	MS	MSD	□ Rec	MSD	□ Rec	□ Rec Limit	Max RPD	RPD	Qualifiers
RIS□														
Methane	ug□	3	40	38	38	88	86	70-130	1.8	20				n
Ethane	ug□	0.032	76	66	64	88	84	70-130	4.5	20				n
Ethene	ug□	0.17	71	60	56	85	80	70-130	6.6	20				n



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Pace Analytical Energy Services LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

QUALITY CONTROL DATA QUALIFIERS

Workorder: 27531 TEXTRON INC □3359-15-1040.15

QUALITY CONTROL PARAMETER QUALIFIERS

n The laboratory does not hold NELAP/TNI accreditation for this method or analyte.



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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 27531 TEXTRON INC □3359-15-1040.15

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
275310001	ATR-MW16-G071918-1445			AM20GAX	DISG 6978
275310002	ATR-MW17-G071918			AM20GAX	DISG 6978
275310003	ATR-□VI-2(32.5)-G071918			AM20GAX	DISG 6978
275310004	ATR-MW17-G071918R			AM20GAX	DISG 6978
275310005	ATR-□VI-2(17.5)-G071918			AM20GAX	DISG 6978
275310007	ATR-MW26(17.5)-G072018			AM20GAX	DISG 6978
275310008	ATR-MW26(28.8)-G072018			AM20GAX	DISG 6978
275310009	ATR-MW26(58.2)-G072018			AM20GAX	DISG 6978
275310006	FIELD BLAN□			AM20GAX	DISG 6984



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27591

Section A
Required Client Information:
Company: **WOOD EDITS**
Address: **521 BYERS RD., SUITE 204**
MUMFRIESBURG, OH 45432
Email To: **PAUL.STORKE@WOODPLE.COM**
Phone: **(937) 859-3600** Fax:
Requested Due Date/TAT:

Section B
Required Project Information:
Report To: **PAUL STORKE**
Copy To:
Purchase Order No.: **CO19005143**
Project Name: **TEXTRON, INC.**
Project Number: **3359-15-104D.15**

Section C
Invoice Information:
Attention:
Company Name:
Address:
Purchase Quote Reference:
Pace Project Manager:
Pace Profile #:

REGULATORY AGENCY
NPDES
UST
GROUND WATER
RCRA
DRINKING WATER
OTHER

Site Location STATE: **IN**

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analysis Test	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
					COMPOSITE START	COMPOSITE END/GRAB			H ₂ SO ₄	HNO ₃	HCl	TSP	BAK	Zinc Acetate & NaOH			
1	ATR-MM10-6071910-1445	WT G	WT G	G	7/19/18	1445	3								X		
2	ATR-MM13-6071910	WT G	WT G	G	7/19/18	1530	3								X		
3	ATR-ZVI-2(32.5)-G071918	WT G	WT G	G	7/19/18	1640	3								X		
4	ATR-MM13-6071918 R	WT G	WT G	G	7/19/18	1530	3								X		
5	ATR-ZVI-2(17.5)-G071918	WT G	WT G	G	7/19/18	1750	3								X		
6	FIELD BLANK	WT G	WT G	G	7/19/18	1410	3								X		
7	ATR-MM26(13.5)-G072018	WT G	WT G	G	7/20/18	0910	3								X		
8	ATR-MM26(28.8)-G072018	WT G	WT G	G	7/20/18	1035	3								X		
9	ATR-MM26(58.2)-G072018	WT G	WT G	G	7/20/18	1135	3								X		
10																	
11																	
12																	

ADDITIONAL COMMENTS
* We have 1 reference, 2 reference

REINQUISHED BY / AFFILIATION
DATE: 7/23/18
TIME: 0900
ACCEPTED BY / AFFILIATION: PAWS 7.24 1100
DATE: 7.24
TIME: 1100

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: G. Borobasi
SIGNATURE of SAMPLER: [Signature]

DATE Signed (MM/DD/YY):

SAMPLE CONDITIONS

Temp in °C

Received on Ice (Y/N)

Custody Sealed Cooler (Y/N)

Samples Intact (Y/N)

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Cooler Receipt Form

Client Name: Wood Project: Textron, Inc Lab Work Order: 27531

A. Shipping/Container Information (circle appropriate response)

Courier: FedEx UPS USPS Client Other: _____ Air bill Present: Yes No

Tracking Number: 8747 6207 7149

Custody Seal on Cooler/Box Present: Yes No Seals Intact: Yes No

Cooler/Box Packing Material: Bubble Wrap Absorbent Foam Other: _____

Type of Ice: Wet Blue None Ice Intact: Yes Melted

Cooler Temperature: 2.8°C Radiation Screened: Yes No Chain of Custody Present: Yes No

Comments: _____

B. Laboratory Assignment/Log-in (check appropriate response)

	YES	NO	N/A	Comment Reference non-Conformance
Chain of Custody properly filled out	✓			
Chain of Custody relinquished	✓			
Sampler Name & Signature on COC	✓			
Containers intact	✓			
Were samples in separate bags	✓			
Sample container labels match COC Sample name/date and time collected		✓		
Sufficient volume provided	✓			
PAES containers used	✓			
Are containers properly preserved for the requested testing? (as labeled)	✓			
If an unknown preservation state, were containers checked? Exception: VOA's coliform			✓	If yes, see pH form.
Was volume for dissolved testing field filtered, as noted on the COC? Was volume received in a preserved container?			✓	
Headspace present?	✓			

Comments: _____

Cooler contents examined/received by: LG Date: 7.24.18

Project Manager Review: EPG Date: 7/24/18

NON-CONFORMANCE FORM

PAES Work Order #: 27531

Date: 7-24-18 Time of Receipt: 11:00 Receiver: LS

Client: Wood

REASON FOR NON-CONFORMANCE:

ATR-MW17-6071918 & ATR-MW17-6071918R:
Vials time was 13:30

ACTION TAKEN:

Client name: Wood Date: 07/24/18 Time: 3:30 15:36

Emailed client for clarification on time of collection
for samples above.

Customer Service Initials: ERG

Date: 07/24/18

Emma Louis - RE: Textron, Inc.

From: "Stork, Paul J." <paul.stork@woodplc.com>
To: Emma Louis <Emma.Louis@pacelabs.com>
Date: 7/24/2018 3:46 PM
Subject: RE: Textron, Inc.

Emma,

I checked the sampling sheet and it has 15:30 on it so I would use the COC time of 15:30.

Thanks

Paul Stork

Principal Project Manager
Environment & Infrastructure Solutions
Office 937 859 3600
Direct: 937 353 7210
Mobile: 937 671 7573
Note: Amec Foster Wheeler E&I is now part of Wood
www.woodplc.com



From: Emma Louis [Emma.Louis@pacelabs.com]
Sent: Tuesday, July 24, 2018 3:43 PM
To: paul.stork@woodplc.com
Subject: Textron, Inc.

We received the samples for the project referenced above. During log-in, it was noted that ATR-MW170G071918 and ATR-MW17-G071918R collection time on both vials was 13:30, while the COC has a documented time of 15:30. We are processing the sample according to the COC, but need clarification of a correct collection time for those samples.

Emma Louis

Inside Project Coordinator
Pace Analytical Energy Services, LLC
220 William Pitt Way
Pittsburgh, PA 15238
412-826-2378 (O) | 412-826-5245 (Main)

www.pacelabs.com

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Pace Analytical Energy Services LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

August 8, 2018

Paul Stork
Wood Environment & Infrastructure Solutions, Inc
521 Byers Road
Suite 204
Miamisburg, OH 45342

RE: **TEXTRON INC.**

Pace Workorder: 27599

Dear Paul Stork:

Enclosed are the analytical results for sample(s) received by the laboratory on Tuesday, July 31, 2018. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Ruth Welsh 08/08/2018
Ruth.Welsh@pacelabs.com

Customer Service Representative

Enclosures

As a valued client we would appreciate your comments on our service.
Please email PAESfeedback@pacelabs.com.

Total Number of Pages 43

Report ID: 27599 - 1079488

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LABORATORY ACCREDITATIONS & CERTIFICATIONS

Accreditor:	Pennsylvania Department of Environmental Protection, Bureau of Laboratories
Accreditation ID:	02-00538
Scope:	NELAP Non-Potable Water
Accreditor:	West Virginia Department of Environmental Protection, Division of Water and Waste Management
Accreditation ID:	395
Scope:	Non-Potable Water
Accreditor:	South Carolina Department of Health and Environmental Control, Office of Environmental Laboratory Certification
Accreditation ID:	89009003
Scope:	Clean Water Act (CWA); Resource Conservation and Recovery Act (RCRA)
Accreditor:	State of Virginia
Accreditation ID:	460201
Scope:	Non-Potable Water
Accreditor:	NELAP: New Jersey, Department of Environmental Protection
Accreditation ID:	PA026
Scope:	Non-Potable Water
Accreditor:	NELAP: New York, Department of Health Wadsworth Center
Accreditation ID:	11815
Scope:	Non-Potable Water
Accreditor:	State of Connecticut, Department of Public Health, Division of Environmental Health
Accreditation ID:	PH-0263
Scope:	Clean Water Act (CWA) Resource Conservation and Recovery Act (RCRA)
Accreditor:	NELAP: Texas, Commission on Environmental Quality
Accreditation ID:	T104704453-09-TX
Scope:	Non-Potable Water
Accreditor:	State of New Hampshire
Accreditation ID:	299409
Scope:	Non-potable water
Accreditor:	State of Georgia
Accreditation ID:	Chapter 391-3-26
Scope:	As per the Georgia EPD Rules and Regulations for Commercial Laboratories, PAES is accredited by the Pennsylvania Department of Environmental Protection Bureau of Laboratories under the National Environmental Laboratory Approval Program (NELAC).



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SAMPLE SUMMARY

Workorder: 27599 TEXTRON INC.

Lab ID	Sample ID	Matrix	Date Collected	Date Received
275990001	ATR-MW25(16.4)-G072318	Water	7/23/2018 11:55	7/31/2018 11:00
275990002	ATR-MW25(32.6)-G072318	Water	7/23/2018 12:45	7/31/2018 11:00
275990003	ATR-MW15-G072318	Water	7/23/2018 14:35	7/31/2018 11:00
275990004	ATR-MW15-G072318-EB	Water	7/23/2018 15:00	7/31/2018 11:00
275990005	ATR-OW5(44)-G072318	Water	7/23/2018 14:30	7/31/2018 11:00
275990006	ATR-OW5(35)-G072318	Water	7/23/2018 13:10	7/31/2018 11:00
275990007	ATR-MW24(55.4)-G072318-1410	Water	7/23/2018 14:10	7/31/2018 11:00
275990008	ATR-MW24(55.4)-G072318-1410-R	Water	7/23/2018 14:10	7/31/2018 11:00
275990009	ATR-MW24(24.9)-G072318-1315	Water	7/23/2018 13:15	7/31/2018 11:00
275990010	ATR-OW2(55)-G072318-1145	Water	7/23/2018 11:45	7/31/2018 11:00
275990011	ATR-OW2(33)-G072318-1610	Water	7/23/2018 16:10	7/31/2018 11:00
275990012	ATR-OW4(35)-G072318	Water	7/23/2018 15:45	7/31/2018 11:00
275990013	ATR-OW4(54)-G072418	Water	7/24/2018 09:10	7/31/2018 11:00
275990014	ATR-MW82(58)-G072418	Water	7/24/2018 16:55	7/31/2018 11:00
275990015	ATR-MW25(45.2)-G072418	Water	7/24/2018 09:15	7/31/2018 11:00
275990016	ATR-MW14-G072418	Water	7/24/2018 11:35	7/31/2018 11:00
275990017	ATR-PM3-G072418	Water	7/24/2018 14:15	7/31/2018 11:00
275990018	ATR-PM3-G072418-R	Water	7/24/2018 14:15	7/31/2018 11:00
275990019	ATR-MW62(36)-G072418	Water	7/24/2018 17:40	7/31/2018 11:00
275990020	ATR-OW3(35)-G072418-0925	Water	7/24/2018 09:25	7/31/2018 11:00
275990021	ATR-OW3(55)-G072418-1050	Water	7/24/2018 10:50	7/31/2018 11:00
275990022	ATR-MW20(35)-G072418-1455	Water	7/24/2018 14:55	7/31/2018 11:00
275990023	ATR-MW20(51)-G072418-1625	Water	7/24/2018 16:25	7/31/2018 11:00



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Pace Analytical Energy Services LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

PROJECT SUMMARY

Workorder: 27599 TEXTRON INC.

Workorder Comments

The container pH for samples 27599 (0005, 0012, 0017-0018) were measured as below the expected pH (< 10) for those samples preserved with trisodium phosphate, as assigned to PAES method AM20GAX.



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ANALYTICAL RESULTS

Workorder: 27599 TEXTRON INC.

Lab ID: **275990001** Date Received: 7/31/2018 11:00 Matrix: Water
 Sample ID: **ATR-MW25(16.4)-G072318** Date Collected: 7/23/2018 11:55

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
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RISK - PAES

Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Methane	23000	ug/l	0.50	0.020	1	8/2/2018 08:41	BW	n
Ethane	92	ug/l	0.10	0.0070	1	8/2/2018 08:41	BW	n
Ethene	0.25	ug/l	0.10	0.0050	1	8/2/2018 08:41	BW	n



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ANALYTICAL RESULTS

Workorder: 27599 TEXTRON INC.

Lab ID: **275990002** Date Received: 7/31/2018 11:00 Matrix: Water
 Sample ID: **ATR-MW25(32.6)-G072318** Date Collected: 7/23/2018 12:45

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
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RISK - PAES

Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Methane	30000	ug/l	0.50	0.020	1	8/2/2018 09:00	BW	n
Ethane	92	ug/l	0.10	0.0070	1	8/2/2018 09:00	BW	n
Ethene	0.38	ug/l	0.10	0.0050	1	8/2/2018 09:00	BW	n



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ANALYTICAL RESULTS

Workorder: 27599 TEXTRON INC.

Lab ID: **275990003** Date Received: 7/31/2018 11:00 Matrix: Water
 Sample ID: **ATR-MW15-G072318** Date Collected: 7/23/2018 14:35

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
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RISK - PAES

Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Methane	20000	ug/l	0.50	0.020	1	8/2/2018 09:11	BW	n
Ethane	340	ug/l	0.10	0.0070	1	8/2/2018 09:11	BW	n
Ethene	1200	ug/l	0.10	0.0050	1	8/2/2018 09:11	BW	n



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ANALYTICAL RESULTS

Workorder: 27599 TEXTRON INC.

Lab ID: **275990004** Date Received: 7/31/2018 11:00 Matrix: Water
 Sample ID: **ATR-MW15-G072318-EB** Date Collected: 7/23/2018 15:00

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
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RISK - PAES

Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Methane	0.19J	ug/l	0.50	0.020	1	8/2/2018 09:28	BW	n
Ethane	0.10 U	ug/l	0.10	0.0070	1	8/2/2018 09:28	BW	n
Ethene	0.040J	ug/l	0.10	0.0050	1	8/2/2018 09:28	BW	n



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ANALYTICAL RESULTS

Workorder: 27599 TEXTRON INC.

Lab ID: **275990005** Date Received: 7/31/2018 11:00 Matrix: Water
 Sample ID: **ATR-OW5(44)-G072318** Date Collected: 7/23/2018 14:30

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
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RISK - PAES

Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Methane	22000	ug/l	0.50	0.020	1	8/2/2018 09:38	BW	n
Ethane	200	ug/l	0.10	0.0070	1	8/2/2018 09:38	BW	n
Ethene	0.28	ug/l	0.10	0.0050	1	8/2/2018 09:38	BW	n



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ANALYTICAL RESULTS

Workorder: 27599 TEXTRON INC.

Lab ID: **275990006** Date Received: 7/31/2018 11:00 Matrix: Water
 Sample ID: **ATR-OW5(35)-G072318** Date Collected: 7/23/2018 13:10

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
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RISK - PAES

Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Methane	20000	ug/l	0.50	0.020	1	8/2/2018 09:50	BW	n
Ethane	140	ug/l	0.10	0.0070	1	8/2/2018 09:50	BW	n
Ethene	0.10 U	ug/l	0.10	0.0050	1	8/2/2018 09:50	BW	n



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ANALYTICAL RESULTS

Workorder: 27599 TEXTRON INC.

Lab ID: **275990007** Date Received: 7/31/2018 11:00 Matrix: Water
 Sample ID: **ATR-MW24(55.4)-G072318-1410** Date Collected: 7/23/2018 14:10

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
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RISK - PAES

Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Methane	17000	ug/l	0.50	0.020	1	8/2/2018 09:59	BW	n
Ethane	110	ug/l	0.10	0.0070	1	8/2/2018 09:59	BW	n
Ethene	45	ug/l	0.10	0.0050	1	8/2/2018 09:59	BW	n



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ANALYTICAL RESULTS

Workorder: 27599 TEXTRON INC.

Lab ID: **275990008** Date Received: 7/31/2018 11:00 Matrix: Water
 Sample ID: **ATR-MW24(55.4)-G072318-1410-R** Date Collected: 7/23/2018 14:10

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
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RISK - PAES

Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Methane	17000	ug/l	0.50	0.020	1	8/2/2018 10:09	BW	n
Ethane	110	ug/l	0.10	0.0070	1	8/2/2018 10:09	BW	n
Ethene	45	ug/l	0.10	0.0050	1	8/2/2018 10:09	BW	n



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ANALYTICAL RESULTS

Workorder: 27599 TEXTRON INC.

Lab ID: **275990009** Date Received: 7/31/2018 11:00 Matrix: Water
 Sample ID: **ATR-MW24(24.9)-G072318-1315** Date Collected: 7/23/2018 13:15

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
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RISK - PAES

Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Methane	3500	ug/l	0.50	0.020	1	8/2/2018 10:28	BW	n
Ethane	0.030J	ug/l	0.10	0.0070	1	8/2/2018 10:28	BW	n
Ethene	0.016J	ug/l	0.10	0.0050	1	8/2/2018 10:28	BW	n



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ANALYTICAL RESULTS

Workorder: 27599 TEXTRON INC.

Lab ID: **275990010** Date Received: 7/31/2018 11:00 Matrix: Water
 Sample ID: **ATR-OW2(55)-G072318-1145** Date Collected: 7/23/2018 11:45

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
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RISK - PAES

Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Methane	24000	ug/l	0.50	0.020	1	8/2/2018 10:38	BW	n
Ethane	11	ug/l	0.10	0.0070	1	8/2/2018 10:38	BW	n
Ethene	0.10 U	ug/l	0.10	0.0050	1	8/2/2018 10:38	BW	n



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ANALYTICAL RESULTS

Workorder: 27599 TEXTRON INC.

Lab ID: **275990011** Date Received: 7/31/2018 11:00 Matrix: Water
 Sample ID: **ATR-OW2(33)-G072318-1610** Date Collected: 7/23/2018 16:10

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
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RISK - PAES

Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Methane	24000	ug/l	0.50	0.020	1	8/2/2018 10:51	BW	n
Ethane	96	ug/l	0.10	0.0070	1	8/2/2018 10:51	BW	n
Ethene	0.10 U	ug/l	0.10	0.0050	1	8/2/2018 10:51	BW	n



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ANALYTICAL RESULTS

Workorder: 27599 TEXTRON INC.

Lab ID: **275990012** Date Received: 7/31/2018 11:00 Matrix: Water
 Sample ID: **ATR-OW4(35)-G072318** Date Collected: 7/23/2018 15:45

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
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RISK - PAES

Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Methane	20000	ug/l	0.50	0.020	1	8/2/2018 11:00	BW	n
Ethane	43	ug/l	0.10	0.0070	1	8/2/2018 11:00	BW	n
Ethene	0.019J	ug/l	0.10	0.0050	1	8/2/2018 11:00	BW	n



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ANALYTICAL RESULTS

Workorder: 27599 TEXTRON INC.

Lab ID: **275990013** Date Received: 7/31/2018 11:00 Matrix: Water
 Sample ID: **ATR-OW4(54)-G072418** Date Collected: 7/24/2018 09:10

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
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RISK - PAES

Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Methane	24000	ug/l	0.50	0.020	1	8/2/2018 12:33	BW	n
Ethane	2.7	ug/l	0.10	0.0070	1	8/2/2018 12:33	BW	n
Ethene	0.10 U	ug/l	0.10	0.0050	1	8/2/2018 12:33	BW	n



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ANALYTICAL RESULTS

Workorder: 27599 TEXTRON INC.

Lab ID: **275990014** Date Received: 7/31/2018 11:00 Matrix: Water
 Sample ID: **ATR-MW82(58)-G072418** Date Collected: 7/24/2018 16:55

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
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RISK - PAES

Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Methane	28000	ug/l	0.50	0.020	1	8/2/2018 12:43	BW	n
Ethane	69	ug/l	0.10	0.0070	1	8/2/2018 12:43	BW	n
Ethene	0.10 U	ug/l	0.10	0.0050	1	8/2/2018 12:43	BW	n



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ANALYTICAL RESULTS

Workorder: 27599 TEXTRON INC.

Lab ID: **275990015** Date Received: 7/31/2018 11:00 Matrix: Water
 Sample ID: **ATR-MW25(45.2)-G072418** Date Collected: 7/24/2018 09:15

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
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RISK - PAES

Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Methane	26000	ug/l	0.50	0.020	1	8/2/2018 12:53	BW	n
Ethane	270	ug/l	0.10	0.0070	1	8/2/2018 12:53	BW	n
Ethene	2.8	ug/l	0.10	0.0050	1	8/2/2018 12:53	BW	n



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ANALYTICAL RESULTS

Workorder: 27599 TEXTRON INC.

Lab ID: **275990016** Date Received: 7/31/2018 11:00 Matrix: Water
 Sample ID: **ATR-MW14-G072418** Date Collected: 7/24/2018 11:35

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
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RISK - PAES

Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Methane	20000	ug/l	0.50	0.020	1	8/2/2018 13:03	BW	n
Ethane	650	ug/l	0.10	0.0070	1	8/2/2018 13:03	BW	n
Ethene	99	ug/l	0.10	0.0050	1	8/2/2018 13:03	BW	n



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ANALYTICAL RESULTS

Workorder: 27599 TEXTRON INC.

Lab ID: **275990017** Date Received: 7/31/2018 11:00 Matrix: Water
 Sample ID: **ATR-PM3-G072418** Date Collected: 7/24/2018 14:15

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
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RISK - PAES

Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Methane	17000	ug/l	0.50	0.020	1	8/2/2018 13:14	BW	n
Ethane	210	ug/l	0.10	0.0070	1	8/2/2018 13:14	BW	n
Ethene	2000	ug/l	0.10	0.0050	1	8/2/2018 13:14	BW	n



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ANALYTICAL RESULTS

Workorder: 27599 TEXTRON INC.

Lab ID: **275990018** Date Received: 7/31/2018 11:00 Matrix: Water
 Sample ID: **ATR-PM3-G072418-R** Date Collected: 7/24/2018 14:15

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
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RISK - PAES

Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Methane	15000	ug/l	0.50	0.020	1	8/2/2018 13:24	BW	n
Ethane	180	ug/l	0.10	0.0070	1	8/2/2018 13:24	BW	n
Ethene	1900	ug/l	0.10	0.0050	1	8/2/2018 13:24	BW	n



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ANALYTICAL RESULTS

Workorder: 27599 TEXTRON INC.

Lab ID: **275990019** Date Received: 7/31/2018 11:00 Matrix: Water
 Sample ID: **ATR-MW62(36)-G072418** Date Collected: 7/24/2018 17:40

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
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RISK - PAES

Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Methane	11000	ug/l	0.50	0.020	1	8/2/2018 13:37	BW	n
Ethane	52	ug/l	0.10	0.0070	1	8/2/2018 13:37	BW	n
Ethene	0.26	ug/l	0.10	0.0050	1	8/2/2018 13:37	BW	n



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ANALYTICAL RESULTS

Workorder: 27599 TEXTRON INC.

Lab ID: **275990020** Date Received: 7/31/2018 11:00 Matrix: Water
 Sample ID: **ATR-OW3(35)-G072418-0925** Date Collected: 7/24/2018 09:25

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
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RISK - PAES

Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Methane	3400	ug/l	0.50	0.020	1	8/2/2018 13:47	BW	n
Ethane	33	ug/l	0.10	0.0070	1	8/2/2018 13:47	BW	n
Ethene	6.6	ug/l	0.10	0.0050	1	8/2/2018 13:47	BW	n



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ANALYTICAL RESULTS

Workorder: 27599 TEXTRON INC.

Lab ID: **275990021** Date Received: 7/31/2018 11:00 Matrix: Water
 Sample ID: **ATR-OW3(55)-G072418-1050** Date Collected: 7/24/2018 10:50

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
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RISK - PAES

Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Methane	23000	ug/l	0.50	0.020	1	8/3/2018 12:25	BW	n
Ethane	320	ug/l	0.10	0.0070	1	8/3/2018 12:25	BW	n
Ethene	520	ug/l	0.10	0.0050	1	8/3/2018 12:25	BW	n



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ANALYTICAL RESULTS

Workorder: 27599 TEXTRON INC.

Lab ID: **275990022** Date Received: 7/31/2018 11:00 Matrix: Water
 Sample ID: **ATR-MW20(35)-G072418-1455** Date Collected: 7/24/2018 14:55

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
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RISK - PAES

Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Methane	19000	ug/l	0.50	0.020	1	8/3/2018 12:39	BW	n
Ethane	59	ug/l	0.10	0.0070	1	8/3/2018 12:39	BW	n
Ethene	0.024J	ug/l	0.10	0.0050	1	8/3/2018 12:39	BW	n



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ANALYTICAL RESULTS

Workorder: 27599 TEXTRON INC.

Lab ID: **275990023** Date Received: 7/31/2018 11:00 Matrix: Water
 Sample ID: **ATR-MW20(51)-G072418-1625** Date Collected: 7/24/2018 16:25

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
------------	---------	-------	-----	-----	----	----------	----	------------

RISK - PAES

Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Methane	13000	ug/l	0.50	0.020	1	8/3/2018 12:48	BW	n
Ethane	63	ug/l	0.10	0.0070	1	8/3/2018 12:48	BW	n
Ethene	0.024J	ug/l	0.10	0.0050	1	8/3/2018 12:48	BW	n



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ANALYTICAL RESULTS QUALIFIERS

Workorder: 27599 TEXTRON INC.

DEFINITIONS/QUALIFIERS

MDL	Method Detection Limit. Can be used synonymously with LOD; Limit Of Detection.
PQL	Practical Quantitation Limit. Can be used synonymously with LOQ; Limit Of Quantitation.
ND	Not detected at or above reporting limit.
DF	Dilution Factor.
S	Surrogate.
RPD	Relative Percent Difference.
% Rec	Percent Recovery.
U	Indicates the compound was analyzed for, but not detected at or above the noted concentration.
J	Estimated concentration greater than the set method detection limit (MDL) and less than the set reporting limit (PQL).
n	The laboratory does not hold NELAP/TNI accreditation for this method or analyte.

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QUALITY CONTROL DATA

Workorder: 27599 TEXTRON INC.

QC Batch: DISG/6987 Analysis Method: AM20GAX

QC Batch Method: AM20GAX

Associated Lab Samples: 275990001, 275990002, 275990003, 275990004, 275990005, 275990006, 275990007, 275990008, 275990009, 275990010, 275990011, 275990012, 275990013, 275990014, 275990015, 275990016, 275990017, 275990018, 275990019, 275990020

METHOD BLANK: 56712

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
RISK				
Methane	ug/l	0.50 U	0.50	n
Ethane	ug/l	0.10 U	0.10	n
Ethene	ug/l	0.10 U	0.10	n

LABORATORY CONTROL SAMPLE & LCSD: 56713 56714

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK										
Methane	ug/l	750	700	690	94	92	80-120	1.3	20	n
Ethane	ug/l	38	38	39	102	103	80-120	1.1	20	n
Ethene	ug/l	35	36	36	101	101	80-120	0.38	20	n



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QUALITY CONTROL DATA

Workorder: 27599 TEXTRON INC.

QC Batch: DISG/6988 Analysis Method: AM20GAX
 QC Batch Method: AM20GAX
 Associated Lab Samples: 275990021, 275990022, 275990023

METHOD BLANK: 56739

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
RISK				
Methane	ug/l	0.50 U	0.50	n
Ethane	ug/l	0.10 U	0.10	n
Ethene	ug/l	0.10 U	0.10	n

LABORATORY CONTROL SAMPLE & LCSD: 56740 56741

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK										
Methane	ug/l	750	710	690	95	92	80-120	3.4	20	n
Ethane	ug/l	38	38	38	101	102	80-120	0.2	20	n
Ethene	ug/l	35	35	35	100	100	80-120	0.48	20	n

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 56778 56779 Original: 275650008

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK											
Methane	ug/l	1800	750	2400	2500	88	105	70-130	5.2	20	n
Ethane	ug/l	1.2	38	34	34	88	87	70-130	0.6	20	n
Ethene	ug/l	2.2	35	31	31	82	81	70-130	1.4	20	n



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QUALITY CONTROL DATA QUALIFIERS

Workorder: 27599 TEXTRON INC.

QUALITY CONTROL PARAMETER QUALIFIERS

n The laboratory does not hold NELAP/TNI accreditation for this method or analyte.



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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 27599 TEXTRON INC.

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
275990001	ATR-MW25(16.4)-G072318			AM20GAX	DISG/6987
275990002	ATR-MW25(32.6)-G072318			AM20GAX	DISG/6987
275990003	ATR-MW15-G072318			AM20GAX	DISG/6987
275990004	ATR-MW15-G072318-EB			AM20GAX	DISG/6987
275990005	ATR-OW5(44)-G072318			AM20GAX	DISG/6987
275990006	ATR-OW5(35)-G072318			AM20GAX	DISG/6987
275990007	ATR-MW24(55.4)-G072318-1410			AM20GAX	DISG/6987
275990008	ATR-MW24(55.4)-G072318-1410-R			AM20GAX	DISG/6987
275990009	ATR-MW24(24.9)-G072318-1315			AM20GAX	DISG/6987
275990010	ATR-OW2(55)-G072318-1145			AM20GAX	DISG/6987
275990011	ATR-OW2(33)-G072318-1610			AM20GAX	DISG/6987
275990012	ATR-OW4(35)-G072318			AM20GAX	DISG/6987
275990013	ATR-OW4(54)-G072418			AM20GAX	DISG/6987
275990014	ATR-MW82(58)-G072418			AM20GAX	DISG/6987
275990015	ATR-MW25(45.2)-G072418			AM20GAX	DISG/6987
275990016	ATR-MW14-G072418			AM20GAX	DISG/6987
275990017	ATR-PM3-G072418			AM20GAX	DISG/6987
275990018	ATR-PM3-G072418-R			AM20GAX	DISG/6987
275990019	ATR-MW62(36)-G072418			AM20GAX	DISG/6987
275990020	ATR-OW3(35)-G072418-0925			AM20GAX	DISG/6987
275990021	ATR-OW3(55)-G072418-1050			AM20GAX	DISG/6988
275990022	ATR-MW20(35)-G072418-1455			AM20GAX	DISG/6988
275990023	ATR-MW20(51)-G072418-1625			AM20GAX	DISG/6988



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Pittsburgh, PA 15238
412-826-5245

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

27599

Page: 1 of 4

011566

Section A Required Client Information:

Company: **WOOD E & IS**
Address: **521 Beyers Rd., Suite 204**
Email To: **Miamisburg, OH 45423**
Paul. Stork@woodplc.com
Phone: **937-859-3600**
Fax: **937-859-3600**
Requested Due Date/TAT:

Section B Required Project Information:

Report To: **Paul Stork**
Copy To:
Purchase Order No.: **CO1605143**
Project Name: **359-15-1040.15**
Project Number: **TEXTRON, INC.**

Section C Invoice Information:

Attention:
Company Name:
Address:
Pace Quote
Reference:
Pace Project
Manager:
Pace Profile #:

REGULATORY AGENCY

NPDES GROUND WATER
UST RCRA
OTHER DRINKING WATER

Site Location
STATE: **IN**

Requested Analysis Filtered (Y/N)

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Y/N ↑	Analysis Test ↑	Y/N	Pace Project No. / Lab I.D.																				
				COMPOSITE START	COMPOSITE END/GRAB																											
				DATE	TIME	DATE	TIME	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	TSP	BAK	Zinc Acetate & NaOH	Other Na ₂ PO ₄	↑ Analysis Test ↑	Y/N	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)											
1	ATR-MW25(16.4)-G072318	DW WT	WT G	7/23/18	1155	7/23/18	1155																									
2	ATR-MW25(32.6)-G072318	WW	WT G	7/23/18	1245	7/23/18	1245																									
3	ATR-MW15-G072318	P	WT G	7/23/18	1435	7/23/18	1435																									
4	ATR-MW15-G072318-EB	SL	WT G	7/23/18	1500	7/23/18	1500																									
5	ATR-OW5(35)-G072318	OL	WT G	7/23/18	1430	7/23/18	1430																									
6	ATR-OW5(35)-G072318	WP	WT G	7/23/18	1310	7/23/18	1310																									
7	ATR-MW24(55.4)-G072318-1410	AR	WT G	7/23/18	1410	7/23/18	1410																									
8	ATR-MW24(55.4)-G072318-1410-R	TS	WT G	7/23/18	1315	7/23/18	1315																									
9	ATR-MW24(24.9)-G072318-1315	OT	WT G	7/23/18	1145	7/23/18	1145																									
10	ATR-OW2(55)-G072318-1145		WT G	7/23/18	1610	7/23/18	1610																									
11	ATR-OW2(33)-G072318-1610		WT G	7/23/18	1545	7/23/18	1545																									
12	ATR-OW4(35)-G072318		WT G																													
ADDITIONAL COMMENTS												RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS														

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: *Geetha Dambiseti*
SIGNATURE of SAMPLER: *Geetha Dambiseti*
DATE Signed (MM/DD/YYYY): *07/30/18*

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

220 William Pitt Way
Pittsburgh, PA 15238
412-826-5245



27599

Page: **2** of **4**
 011567

Section A
 Required Client Information:
 Company: **WGA E&IS**
 Address: **521 Bucks Rd Suite 204**
Wilmington, Ohio 45482
 Email To: **Paul Stork**
 Phone: **513 851 3400 / 937-851-**
 Fax:
 Project Name: **Exham TWC**
 Project Number: **355-15-104015**
 Requested Due Date/TAT:

Section B
 Required Project Information:
 Report To: **Paul Stork**
 Copy To:
 Company Name:
 Address:
 Pace Quote Reference:
 Pace Project Manager:
 Pace Profile #:

Section C
 Invoice Information:
 Attention:
 Company Name:
 Address:
 Pace Quote Reference:
 Pace Project Manager:
 Pace Profile #:

REGULATORY AGENCY
 NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER

Site Location
 STATE: **IN**

ITEM #	Section D Required Client Information	Section B Matrix Codes MATRIX CODE	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Y/N	Requested Analysis Filtered (Y/N)													Pace Project No./ Lab I.D.												
			MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COMPOSITE START	COMPOSITE END/GRAB					DATE	TIME	DATE	TIME	H ₂ SO ₄	HNO ₃	HCl	TSP	BAK	Zinc Acetate & NaOH	Other	Analysis Test	Temp in °C		Received on	Custody	Sealed Cooler	Samples Intact								
1	ATR-024(54)-G072418	DW	WT G				12418	0910	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
2	ATR-MW22(58)-G072418	Water	WT G					1655	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
3	ATR-MW25(45.2)-G072418	Waste Water	WT G					0915	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
4	ATR-MW14-G072418	Product	WT G					1135	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
5	ATR-PM3-G072418	Soil/Solid	WT G					1450	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
6	ATR-PM3-G072418-R	Oil	WT G					1450	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7	ATR-MW62(36)-G072418	Wipe	WT G					1740	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
8	ATR-DW3(35)-G072418-0925	Wipe	WT G					0925	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
9	ATR-DW3(55)-G072418-1050	Wipe	WT G					1050	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
10	ATR-MW20(35)-G072418-1455	Wipe	WT G					1455	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
11	ATR-MW20(57)-G072418-1625	Wipe	WT G					1625	3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12	ATR-MW20(124)-G072418-																																			

Additional Comments:

SAMPLER NAME AND SIGNATURE
 PRINT Name of SAMPLER: *Conrad Deharbusch*
 SIGNATURE of SAMPLER: *Conrad Deharbusch*
 DATE Signed (MM/DD/YY): 07/30/15

RELINQUISHED BY / AFFILIATION

ACCEPTED BY / AFFILIATION
[Signature]

DATE

7.31.8 1100

TIME

1100

DATE

7.31.8 1100

TIME

1100

Temp in °C

Received on

Custody

Sealed Cooler

Samples Intact

Temp in °C

Received on

Custody

Sealed Cooler

Samples Intact

ORIGINAL

NON-CONFORMANCE FORM

PAES Work Order #: 27599

Date: 7.31.18 Time of Receipt: 1100 Receiver: LJ

Client: Wood E & IS

REASON FOR NON-CONFORMANCE:

1. ~~ATR-PM3-G072418 & ATR-PM3-G072418-R:~~
Vials time was 14:15.
2. ~~ATR-MW67(30)-G072518; Vials ED was~~
~~ATR-MW67-G072518. RW 8/1/18~~
3. ~~ATR-MW76(30)-G072518-R; was not on COC~~
~~but ATR-MW76(30)-G072518 was listed twice.~~
Logged the "R" one in as the 2nd sample RW 8/1/18

ACTION TAKEN:

Client name: Paul Stork Date: 8-1-18 Time: 06:20
Emailed client with discrepancies - logged per
COC pending response

Customer Service Initials: RW Date: 8-1-18

Cooler Receipt Form

Client Name: Wood ESIS Project: Texton Lab Work Order: 27599

A. Shipping/Container Information (circle appropriate response)

Courier: FedEx UPS USPS Client Other: _____ Air bill Present: Yes No

Tracking Number: 772852561985

Custody Seal on Cooler/Box Present: Yes No Seals Intact: Yes No

Cooler/Box Packing Material: Bubble Wrap Absorbent Foam Other: _____

Type of Ice: Wet Blue None Ice Intact: Yes Melted

Cooler Temperature: 30C Radiation Screened: Yes No Chain of Custody Present: Yes No

Comments: _____

B. Laboratory Assignment/Log-in (check appropriate response)

	YES	NO	N/A	Comment Reference non-Conformance
Chain of Custody properly filled out	✓			
Chain of Custody relinquished	✓			
Sampler Name & Signature on COC	✓			
Containers intact	✓			
Were samples in separate bags	✓			
Sample container labels match COC Sample name/date and time collected		✓		
Sufficient volume provided	✓			
PAES containers used	✓			
Are containers properly preserved for the requested testing? (as labeled)	✓			
If an unknown preservation state, were containers checked? Exception: VOA's coliform			✓	If yes, see pH form.
Was volume for dissolved testing field filtered, as noted on the COC? Was volume received in a preserved container?			✓	
Headspace present?	✓			

Comments: _____

Cooler contents examined/received by: LY Date: 7.31.18

Project Manager Review: RW Date: 8-1-18

Ruth Welsh - FW: Textron

From: "Dornbusch, Gerald" <gerald.dornbusch@woodplc.com>
To: Ruth Welsh <Ruth.Welsh@pacelabs.com>
Date: 8/1/2018 5:44 PM
Subject: FW: Textron

Hello again,

This was my response to all your and Paul's questions.

Thanks for your understanding as I am new to this.

Jerry

From: Dornbusch, Gerald
Sent: Wednesday, August 01, 2018 5:31 PM
To: Stork, Paul J. <paul.stork@woodplc.com>
Subject: RE: Textron

Hello,

I hope I can clarify these issue for you.

LAB WO 27599

The sample ATR-PM3-G072418 were collected at 1415 and that is the time which should have been listed. The vials are correct the chain of custody is incorrect as to the collection time.

LAB WO 27600

The labels on the vials should have read ATR-MW67(30)-G072518. The sampler must have missed the (30) on the vials but has it on his sheet.

The samples labeled ATR-MW76(30)-G072518 should have been labeled both ways one like this one stated and one labeled ATR-MW76(30)-G072518-R. They were collected at the same time and are replicates of the first one. Please add that sample if it is not on the COC. It was my oversight.

I hope this clarifies all the discrepancies of our samples.

Thanks Jerry

From: Stork, Paul J. [mailto:paul.stork@woodplc.com]
Sent: Wednesday, August 01, 2018 6:31 AM
To: Dornbusch, Gerald <gerald.dornbusch@woodplc.com>
Subject: Fw: Textron

jerry, can you answer the laboratory's questions thanks

From: Ruth Welsh <Ruth.Welsh@pacelabs.com>
Sent: Wednesday, August 1, 2018 6:28 AM
To: paul.stork@woodplc.com
Subject: Textron

We received the samples yesterday for the Textron project. There were some discrepancies between the sample labels and the COC. I have attached a copy of the COCs for your reference. None of the COCs were signed as relinquished to the lab. Because of the number of samples, we broke the shipment into 2 projects;

Lab WO 27599

Samples ATR-PM3-G072418 and ATR-PM3-G072418-R have a sample collection time of 14:50 on the COC but the vials are labeled as 14:15.

Lab WO 27600

Sample ATR-MW67(30)-G072518 was listed on the COC, the vials are labeled as ATR-MW67-G072518

We received sample ATR-MW76(30)-G072518-R. This sample was not listed on the COC; however sample ATR-MW76(30)-G072518 was listed twice. We took 1 set of vials to use as ATR-MW76(30)-G072518-R

Please confirm which IDs and times you would like us to reference so that all of the records agree,

Thank you

Ruth Welsh

Assistant General Manager

Pace Analytical Energy Services, LLC

220 William Pitt Way, Pittsburgh, PA 15238

412-826-2387 (O) | 412-209-8995 (C)

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Ruth Welsh - RE: Textron

From: "Dornbusch, Gerald" <gerald.dornbusch@woodplc.com>
To: Ruth Welsh <Ruth.Welsh@pacelabs.com>
Date: 8/1/2018 5:42 PM
Subject: RE: Textron

Hello Ruth,

I am the one who packaged the samples and sent them by FedEx. I inadvertently signed in the wrong spot. I thought I was supposed to sign on the sampler line. I can attest that I packaged all the samples and relinquished them to FedEx on July 30, 2018 at 1712. If you need a copy of the FedEx receipt or something else from me let me know.

Thanks Jerry

From: Ruth Welsh [Ruth.Welsh@pacelabs.com]
Sent: Wednesday, August 01, 2018 4:57 PM
To: paul.stork@woodplc.com
Cc: gerald.dornbusch@woodplc.com
Subject: RE: Textron

Thank you

Ruth Welsh

Assistant General Manager
Pace Analytical Energy Services, LLC
220 William Pitt Way, Pittsburgh, PA 15238
[412-826-2387](tel:412-826-2387) (O) | [412-209-8995](tel:412-209-8995) (C)
www.pacelabs.com

>>> "Stork, Paul J." <paul.stork@woodplc.com> 8/1/2018 4:50 PM >>>
Ruth,

Answering your questions:

The sampler thought he was relinquishing the samples when he signed the COCs, he got confused. I will have him send a follow-up email to you stating he relinquished the samples to FED Ex on July 30th.

On Lab WO 27599; the correct sample time is from the vial at 14:15.

Lab WO 27600; the sample ID should be ATR-MW67(30)-G072518; We left off the "R" on the COC for sample ATR-MW76(30)-G072518.

Thanks, Paul

Paul Stork

Principal Project Manager

Environment & Infrastructure Solutions

Office [937 859 3600](tel:9378593600)

Direct: [937 353 7210](tel:9373537210)

Mobile: [937 671 7573](tel:9376717573)

Note: Amec Foster Wheeler E&I is now part of Wood

www.woodplc.com



From: Ruth Welsh [<mailto:Ruth.Welsh@pacelabs.com>]

Sent: Wednesday, August 01, 2018 6:28 AM

To: paul.stork@woodplc.com

Subject: Textron

We received the samples yesterday for the Textron project. There were some discrepancies between the sample labels and the COC. I have attached a copy of the COCs for your reference. None of the COCs were signed as relinquished to the lab. Because of the number of samples, we broke the shipment into 2 projects;

Lab WO 27599

Samples ATR-PM3-G072418 and ATR-PM3-G072418-R have a sample collection time of 14:50 on the COC but the vials are labeled as 14:15.

Lab WO 27600

Sample ATR-MW67(30)-G072518 was listed on the COC, the vials are labeled as ATR-MW67-G072518

We received sample ATR-MW76(30)-G072518-R. This sample was not listed on the COC; however sample ATR-MW76(30)-G072518 was listed twice. We took 1 set of vials to use as ATR-MW76(30)-G072518-R

Please confirm which IDs and times you would like us to reference so that all of the records agree,

Thank you

Ruth Welsh

Assistant General Manager

Pace Analytical Energy Services, LLC

220 William Pitt Way, Pittsburgh, PA 15238

412-826-2387 (O) | 412-209-8995(C)

www.pacelabs.com

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Ruth Welsh - Textron

From: Ruth Welsh
To: Stork Paul J.
Subject: Textron

We received the samples yesterday for the Textron project. There were some discrepancies between the sample labels and the COC. I have attached a copy of the COCs for your reference. None of the COCs were signed as relinquished to the lab. Because of the number of samples, we broke the shipment into 2 projects;

Lab WO 27599

Samples ATR-PM3-G072418 and ATR-PM3-G072418-R have a sample collection time of 14:50 on the COC but the vials are labeled as 14:15.

Lab WO 27600

Sample ATR-MW67(30)-G072518 was listed on the COC, the vials are labeled as ATR-MW67-G072518

We received sample ATR-MW76(30)-G072518-R. This sample was not listed on the COC; however sample ATR-MW76(30)-G072518 was listed twice. We took 1 set of vials to use as ATR-MW76(30)-G072518-R

Please confirm which IDs and times you would like us to reference so that all of the records agree,

Thank you

Ruth Welsh

Assistant General Manager
Pace Analytical Energy Services, LLC
220 William Pitt Way, Pittsburgh, PA 15238
412-826-2387 (O) | 412-209-8995(C)
www.pacelabs.com



August 8, 2018

Paul Stork
Wood Environment & Infrastructure Solutions, Inc
521 Byers Road
Suite 204
Miamisburg, OH 45342

RE: **TEXTRON INC.**

Pace Workorder: 27600

Dear Paul Stork:

Enclosed are the analytical results for sample(s) received by the laboratory on Tuesday, July 31, 2018. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Ruth Welsh 08/08/2018
Ruth.Welsh@pacelabs.com

Customer Service Representative

Enclosures

As a valued client we would appreciate your comments on our service.
Please email PAESfeedback@pacelabs.com.

Total Number of Pages 41



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LABORATORY ACCREDITATIONS & CERTIFICATIONS

Accreditor:	Pennsylvania Department of Environmental Protection, Bureau of Laboratories
Accreditation ID:	02-00538
Scope:	NELAP Non-Potable Water
Accreditor:	West Virginia Department of Environmental Protection, Division of Water and Waste Management
Accreditation ID:	395
Scope:	Non-Potable Water
Accreditor:	South Carolina Department of Health and Environmental Control, Office of Environmental Laboratory Certification
Accreditation ID:	89009003
Scope:	Clean Water Act (CWA); Resource Conservation and Recovery Act (RCRA)
Accreditor:	State of Virginia
Accreditation ID:	460201
Scope:	Non-Potable Water
Accreditor:	NELAP: New Jersey, Department of Environmental Protection
Accreditation ID:	PA026
Scope:	Non-Potable Water
Accreditor:	NELAP: New York, Department of Health Wadsworth Center
Accreditation ID:	11815
Scope:	Non-Potable Water
Accreditor:	State of Connecticut, Department of Public Health, Division of Environmental Health
Accreditation ID:	PH-0263
Scope:	Clean Water Act (CWA) Resource Conservation and Recovery Act (RCRA)
Accreditor:	NELAP: Texas, Commission on Environmental Quality
Accreditation ID:	T104704453-09-TX
Scope:	Non-Potable Water
Accreditor:	State of New Hampshire
Accreditation ID:	299409
Scope:	Non-potable water
Accreditor:	State of Georgia
Accreditation ID:	Chapter 391-3-26
Scope:	As per the Georgia EPD Rules and Regulations for Commercial Laboratories, PAES is accredited by the Pennsylvania Department of Environmental Protection Bureau of Laboratories under the National Environmental Laboratory Approval Program (NELAC).



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SAMPLE SUMMARY

Workorder: 27600 TEXTRON INC.

Lab ID	Sample ID	Matrix	Date Collected	Date Received
276000001	ATR-MW59(29)-G072418	Water	7/24/2018 16:35	7/31/2018 11:00
276000002	ATR-MW59(29)-G072418-R	Water	7/24/2018 16:35	7/31/2018 11:00
276000003	ATR-MW81(27)-G072418	Water	7/24/2018 15:30	7/31/2018 11:00
276000004	ATR-PM2-G072418	Water	7/24/2018 14:20	7/31/2018 11:00
276000005	ATR-OW1(28)-G072418	Water	7/24/2018 11:25	7/31/2018 11:00
276000006	ATR-OW1(28)-G072418-EB	Water	7/24/2018 11:40	7/31/2018 11:00
276000007	ATR-OW1(39)-G072418	Water	7/24/2018 10:15	7/31/2018 11:00
276000008	ATR-MW72(32)-G072518	Water	7/25/2018 10:25	7/31/2018 11:00
276000009	ATR-MW71(33)-G072518	Water	7/25/2018 11:30	7/31/2018 11:00
276000010	ATR-MW67(30)-G072518	Water	7/25/2018 12:25	7/31/2018 11:00
276000011	ATR-MW68(32)-G072518	Water	7/25/2018 13:25	7/31/2018 11:00
276000012	ATR-MW77(41)-G072518	Water	7/25/2018 15:40	7/31/2018 11:00
276000013	ATR-MW78(35)-G072518	Water	7/25/2018 14:05	7/31/2018 11:00
276000014	ATR-MW78(35)-G072518-EB	Water	7/25/2018 14:35	7/31/2018 11:00
276000015	ATR-MW76(30)-G072518	Water	7/25/2018 12:40	7/31/2018 11:00
276000016	ATR-MW76(30)-G072518-R	Water	7/25/2018 12:40	7/31/2018 11:00
276000017	ATR-MW12-G072618	Water	7/26/2018 09:10	7/31/2018 11:00
276000018	ATR-MW13-G072618	Water	7/26/2018 10:10	7/31/2018 11:00
276000019	ATR-MW13-G072618-EB	Water	7/26/2018 10:00	7/31/2018 11:00
276000020	ATR-MW6C-G072618	Water	7/26/2018 08:45	7/31/2018 11:00
276000021	ATR-OW5(16)-G072318	Water	7/23/2018 11:45	7/31/2018 11:00



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Pace Analytical Energy Services LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

PROJECT SUMMARY

Workorder: 27600 TEXTRON INC.

Workorder Comments

The container pH for samples 27600 (0001-0002, 0004-0005, 0008-0011, 0015-0016) were measured as below the expected pH (≤ 10) for those samples preserved with trisodium phosphate, as assigned to PAES method AM20GAX.



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ANALYTICAL RESULTS

Workorder: 27600 TEXTRON INC.

Lab ID: **276000001** Date Received: 7/31/2018 11:00 Matrix: Water
 Sample ID: **ATR-MW59(29)-G072418** Date Collected: 7/24/2018 16:35

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
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RISK - PAES

Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Methane	18000	ug/l	0.50	0.020	1	8/6/2018 10:17	BW	n
Ethane	430	ug/l	0.10	0.0070	1	8/6/2018 10:17	BW	n
Ethene	0.54	ug/l	0.10	0.0050	1	8/6/2018 10:17	BW	n



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ANALYTICAL RESULTS

Workorder: 27600 TEXTRON INC.

Lab ID: **276000002** Date Received: 7/31/2018 11:00 Matrix: Water
 Sample ID: **ATR-MW59(29)-G072418-R** Date Collected: 7/24/2018 16:35

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
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RISK - PAES

Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Methane	17000	ug/l	0.50	0.020	1	8/6/2018 10:28	BW	n
Ethane	400	ug/l	0.10	0.0070	1	8/6/2018 10:28	BW	n
Ethene	0.50	ug/l	0.10	0.0050	1	8/6/2018 10:28	BW	n



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ANALYTICAL RESULTS

Workorder: 27600 TEXTRON INC.

Lab ID: **276000003** Date Received: 7/31/2018 11:00 Matrix: Water
 Sample ID: **ATR-MW81(27)-G072418** Date Collected: 7/24/2018 15:30

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
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RISK - PAES

Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Methane	22000	ug/l	0.50	0.020	1	8/6/2018 10:38	BW	n
Ethane	200	ug/l	0.10	0.0070	1	8/6/2018 10:38	BW	n
Ethene	230	ug/l	0.10	0.0050	1	8/6/2018 10:38	BW	n



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ANALYTICAL RESULTS

Workorder: 27600 TEXTRON INC.

Lab ID: **276000004** Date Received: 7/31/2018 11:00 Matrix: Water
 Sample ID: **ATR-PM2-G072418** Date Collected: 7/24/2018 14:20

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
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RISK - PAES

Analysis Desc: AM20GAX	Analytical Method: AM20GAX							
Methane	20000	ug/l	0.50	0.020	1	8/6/2018 10:53	BW	n
Ethane	330	ug/l	0.10	0.0070	1	8/6/2018 10:53	BW	n
Ethene	27	ug/l	0.10	0.0050	1	8/6/2018 10:53	BW	n



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ANALYTICAL RESULTS

Workorder: 27600 TEXTRON INC.

Lab ID: **276000005** Date Received: 7/31/2018 11:00 Matrix: Water
 Sample ID: **ATR-OW1(28)-G072418** Date Collected: 7/24/2018 11:25

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
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RISK - PAES

Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Methane	14000	ug/l	0.50	0.020	1	8/6/2018 11:08	BW	n
Ethane	150	ug/l	0.10	0.0070	1	8/6/2018 11:08	BW	n
Ethene	53	ug/l	0.10	0.0050	1	8/6/2018 11:08	BW	n



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ANALYTICAL RESULTS

Workorder: 27600 TEXTRON INC.

Lab ID: **276000006** Date Received: 7/31/2018 11:00 Matrix: Water
 Sample ID: **ATR-OW1(28)-G072418-EB** Date Collected: 7/24/2018 11:40

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
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RISK - PAES

Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Methane	0.38J	ug/l	0.50	0.020	1	8/6/2018 11:18	BW	n
Ethane	0.0083J	ug/l	0.10	0.0070	1	8/6/2018 11:18	BW	n
Ethene	0.027J	ug/l	0.10	0.0050	1	8/6/2018 11:18	BW	n



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ANALYTICAL RESULTS

Workorder: 27600 TEXTRON INC.

Lab ID: **276000007** Date Received: 7/31/2018 11:00 Matrix: Water
 Sample ID: **ATR-OW1(39)-G072418** Date Collected: 7/24/2018 10:15

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
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RISK - PAES

Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Methane	2700	ug/l	0.50	0.020	1	8/6/2018 11:29	BW	n
Ethane	200	ug/l	0.10	0.0070	1	8/6/2018 11:29	BW	n
Ethene	26	ug/l	0.10	0.0050	1	8/6/2018 11:29	BW	n



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ANALYTICAL RESULTS

Workorder: 27600 TEXTRON INC.

Lab ID: **276000008** Date Received: 7/31/2018 11:00 Matrix: Water
 Sample ID: **ATR-MW72(32)-G072518** Date Collected: 7/25/2018 10:25

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
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RISK - PAES

Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Methane	7500	ug/l	0.50	0.020	1	8/6/2018 11:43	BW	n
Ethane	17	ug/l	0.10	0.0070	1	8/6/2018 11:43	BW	n
Ethene	0.53	ug/l	0.10	0.0050	1	8/6/2018 11:43	BW	n



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ANALYTICAL RESULTS

Workorder: 27600 TEXTRON INC.

Lab ID: **276000009** Date Received: 7/31/2018 11:00 Matrix: Water
 Sample ID: **ATR-MW71(33)-G072518** Date Collected: 7/25/2018 11:30

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
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RISK - PAES

Analysis Desc: AM20GAX	Analytical Method: AM20GAX							
Methane	10000	ug/l	0.50	0.020	1	8/6/2018 11:53	BW	n
Ethane	83	ug/l	0.10	0.0070	1	8/6/2018 11:53	BW	n
Ethene	150	ug/l	0.10	0.0050	1	8/6/2018 11:53	BW	n



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ANALYTICAL RESULTS

Workorder: 27600 TEXTRON INC.

Lab ID: **276000010** Date Received: 7/31/2018 11:00 Matrix: Water
 Sample ID: **ATR-MW67(30)-G072518** Date Collected: 7/25/2018 12:25

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
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RISK - PAES

Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Methane	8100	ug/l	0.50	0.020	1	8/6/2018 12:10	BW	n
Ethane	34	ug/l	0.10	0.0070	1	8/6/2018 12:10	BW	n
Ethene	330	ug/l	0.10	0.0050	1	8/6/2018 12:10	BW	n



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ANALYTICAL RESULTS

Workorder: 27600 TEXTRON INC.

Lab ID: **276000011** Date Received: 7/31/2018 11:00 Matrix: Water
 Sample ID: **ATR-MW68(32)-G072518** Date Collected: 7/25/2018 13:25

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
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RISK - PAES

Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Methane	10000	ug/l	0.50	0.020	1	8/6/2018 12:20	BW	n
Ethane	36	ug/l	0.10	0.0070	1	8/6/2018 12:20	BW	n
Ethene	2200	ug/l	0.10	0.0050	1	8/6/2018 12:20	BW	n



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ANALYTICAL RESULTS

Workorder: 27600 TEXTRON INC.

Lab ID: **276000012** Date Received: 7/31/2018 11:00 Matrix: Water
 Sample ID: **ATR-MW77(41)-G072518** Date Collected: 7/25/2018 15:40

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
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RISK - PAES

Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Methane	5600	ug/l	0.50	0.020	1	8/6/2018 12:31	BW	n
Ethane	68	ug/l	0.10	0.0070	1	8/6/2018 12:31	BW	n
Ethene	3.1	ug/l	0.10	0.0050	1	8/6/2018 12:31	BW	n



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ANALYTICAL RESULTS

Workorder: 27600 TEXTRON INC.

Lab ID: **276000013** Date Received: 7/31/2018 11:00 Matrix: Water
 Sample ID: **ATR-MW78(35)-G072518** Date Collected: 7/25/2018 14:05

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
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RISK - PAES

Analysis Desc: AM20GAX	Analytical Method: AM20GAX							
Methane	18000	ug/l	0.50	0.020	1	8/6/2018 13:47	BW	n
Ethane	53	ug/l	0.10	0.0070	1	8/6/2018 13:47	BW	n
Ethene	0.012J	ug/l	0.10	0.0050	1	8/6/2018 13:47	BW	n



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ANALYTICAL RESULTS

Workorder: 27600 TEXTRON INC.

Lab ID: **276000014** Date Received: 7/31/2018 11:00 Matrix: Water
 Sample ID: **ATR-MW78(35)-G072518-EB** Date Collected: 7/25/2018 14:35

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
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RISK - PAES

Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Methane	0.33J	ug/l	0.50	0.020	1	8/6/2018 13:58	BW	n
Ethane	0.0090J	ug/l	0.10	0.0070	1	8/6/2018 13:58	BW	n
Ethene	0.030J	ug/l	0.10	0.0050	1	8/6/2018 13:58	BW	n



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ANALYTICAL RESULTS

Workorder: 27600 TEXTRON INC.

Lab ID: **276000015** Date Received: 7/31/2018 11:00 Matrix: Water
 Sample ID: **ATR-MW76(30)-G072518** Date Collected: 7/25/2018 12:40

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
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RISK - PAES

Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Methane	15000	ug/l	0.50	0.020	1	8/6/2018 14:08	BW	n
Ethane	47	ug/l	0.10	0.0070	1	8/6/2018 14:08	BW	n
Ethene	4500	ug/l	0.10	0.0050	1	8/6/2018 14:08	BW	n



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ANALYTICAL RESULTS

Workorder: 27600 TEXTRON INC.

Lab ID: **276000016** Date Received: 7/31/2018 11:00 Matrix: Water
 Sample ID: **ATR-MW76(30)-G072518-R** Date Collected: 7/25/2018 12:40

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
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RISK - PAES

Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Methane	15000	ug/l	0.50	0.020	1	8/6/2018 14:18	BW	n
Ethane	45	ug/l	0.10	0.0070	1	8/6/2018 14:18	BW	n
Ethene	4700	ug/l	0.10	0.0050	1	8/6/2018 14:18	BW	n



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ANALYTICAL RESULTS

Workorder: 27600 TEXTRON INC.

Lab ID: **276000017** Date Received: 7/31/2018 11:00 Matrix: Water
 Sample ID: **ATR-MW12-G072618** Date Collected: 7/26/2018 09:10

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
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RISK - PAES

Analysis Desc: AM20GAX	Analytical Method: AM20GAX							
Methane	9200	ug/l	0.50	0.020	1	8/6/2018 14:28	BW	n
Ethane	23	ug/l	0.10	0.0070	1	8/6/2018 14:28	BW	n
Ethene	0.019J	ug/l	0.10	0.0050	1	8/6/2018 14:28	BW	n



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ANALYTICAL RESULTS

Workorder: 27600 TEXTRON INC.

Lab ID: **276000018** Date Received: 7/31/2018 11:00 Matrix: Water
 Sample ID: **ATR-MW13-G072618** Date Collected: 7/26/2018 10:10

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
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RISK - PAES

Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Methane	19000	ug/l	0.50	0.020	1	8/6/2018 14:41	BW	n
Ethane	29	ug/l	0.10	0.0070	1	8/6/2018 14:41	BW	n
Ethene	3.9	ug/l	0.10	0.0050	1	8/6/2018 14:41	BW	n



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ANALYTICAL RESULTS

Workorder: 27600 TEXTRON INC.

Lab ID: **276000019** Date Received: 7/31/2018 11:00 Matrix: Water
 Sample ID: **ATR-MW13-G072618-EB** Date Collected: 7/26/2018 10:00

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
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RISK - PAES

Analysis Desc: AM20GAX	Analytical Method: AM20GAX							
Methane	0.11J	ug/l	0.50	0.020	1	8/6/2018 14:51	BW	n
Ethane	0.10 U	ug/l	0.10	0.0070	1	8/6/2018 14:51	BW	n
Ethene	0.013J	ug/l	0.10	0.0050	1	8/6/2018 14:51	BW	n



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ANALYTICAL RESULTS

Workorder: 27600 TEXTRON INC.

Lab ID: **276000020** Date Received: 7/31/2018 11:00 Matrix: Water
 Sample ID: **ATR-MW6C-G072618** Date Collected: 7/26/2018 08:45

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
------------	---------	-------	-----	-----	----	----------	----	------------

RISK - PAES

Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Methane	18000	ug/l	0.50	0.020	1	8/6/2018 15:01	BW	n
Ethane	47	ug/l	0.10	0.0070	1	8/6/2018 15:01	BW	n
Ethene	50	ug/l	0.10	0.0050	1	8/6/2018 15:01	BW	n



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ANALYTICAL RESULTS

Workorder: 27600 TEXTRON INC.

Lab ID: **276000021** Date Received: 7/31/2018 11:00 Matrix: Water
 Sample ID: **ATR-OW5(16)-G072318** Date Collected: 7/23/2018 11:45

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
------------	---------	-------	-----	-----	----	----------	----	------------

RISK - PAES

Analysis Desc: AM20GAX		Analytical Method: AM20GAX						
Methane	19000	ug/l	0.50	0.016	1	8/4/2018 10:54	TD	n
Ethane	90	ug/l	0.10	0.0030	1	8/4/2018 10:54	TD	n
Ethene	0.12	ug/l	0.10	0.0040	1	8/4/2018 10:54	TD	n



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ANALYTICAL RESULTS QUALIFIERS

Workorder: 27600 TEXTRON INC.

DEFINITIONS/QUALIFIERS

- MDL Method Detection Limit. Can be used synonymously with LOD; Limit Of Detection.
- PQL Practical Quantitation Limit. Can be used synonymously with LOQ; Limit Of Quantitation.
- ND Not detected at or above reporting limit.
- DF Dilution Factor.
- S Surrogate.
- RPD Relative Percent Difference.
- Rec Percent Recovery.
- Indicates the compound was analyzed for, but not detected at or above the noted concentration.
- J Estimated concentration greater than the set method detection limit (MDL) and less than the set reporting limit (PQL).
-
- n The laboratory does not hold NELAP/TNI accreditation for this method or analyte.

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QUALITY CONTROL DATA

Workorder: 27600 TEXTRON INC.

QC Batch: DISG 6990 Analysis Method: AM20GAX

QC Batch Method: AM20GAX

Associated Lab Samples: 276000001, 276000002, 276000003, 276000004, 276000005, 276000006, 276000007, 276000008, 276000009, 276000010, 276000011, 276000012, 276000013, 276000014, 276000015, 276000016, 276000017, 276000018, 276000019, 276000020

METHOD BLAN: 56761

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
RIS				
Methane	ug/l	0.50	0.50	n
Ethane	ug/l	0.10	0.10	n
Ethene	ug/l	0.10	0.10	n

LABORATORY CONTROL SAMPLE LCS: 56762 56763

Parameter	Units	Spike Conc.	LCS Result	LCS Result	LCS Rec	LCS Rec	Rec Limit	RPD	Max RPD	Qualifiers
RIS										
Methane	ug/l	750	700	700	94	94	80-120	0.093	20	n
Ethane	ug/l	38	38	40	101	105	80-120	3.4	20	n
Ethene	ug/l	35	36	37	101	104	80-120	3.3	20	n



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QUALITY CONTROL DATA

Workorder: 27600 TEXTRON INC.

QC Batch: DISG 6993 Analysis Method: AM20GAX
 QC Batch Method: AM20GAX
 Associated Lab Samples: 276000021

METHOD BLAN: 56794

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
RIS				
Methane	ug/l	0.50	0.50	n
Ethane	ug/l	0.10	0.10	n
Ethene	ug/l	0.10	0.10	n

LABORATORY CONTROL SAMPLE LCS: 56796 56798

Parameter	Units	Spike Conc.	LCS Result	LCS Result	LCS Rec	LCS Rec	Rec Limit	RPD	Max RPD	Qualifiers
RIS										
Methane	ug/l	770	840	810	110	106	80-120	3.4	20	n
Ethane	ug/l	76	78	78	103	103	80-120	0.23	20	n
Ethene	ug/l	71	72	74	102	105	80-120	2.6	20	n



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Pace Analytical Energy Services LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

QUALITY CONTROL DATA QUALIFIERS

Workorder: 27600 TEXTRON INC.

QUALITY CONTROL PARAMETER QUALIFIERS

n The laboratory does not hold NELAP/TNI accreditation for this method or analyte.



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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 27600 TEXTRON INC.

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
276000001	ATR-MW59(29)-G072418			AM20GAX	DISG 6990
276000002	ATR-MW59(29)-G072418-R			AM20GAX	DISG 6990
276000003	ATR-MW81(27)-G072418			AM20GAX	DISG 6990
276000004	ATR-PM2-G072418			AM20GAX	DISG 6990
276000005	ATR-OW1(28)-G072418			AM20GAX	DISG 6990
276000006	ATR-OW1(28)-G072418-EB			AM20GAX	DISG 6990
276000007	ATR-OW1(39)-G072418			AM20GAX	DISG 6990
276000008	ATR-MW72(32)-G072518			AM20GAX	DISG 6990
276000009	ATR-MW71(33)-G072518			AM20GAX	DISG 6990
276000010	ATR-MW67(30)-G072518			AM20GAX	DISG 6990
276000011	ATR-MW68(32)-G072518			AM20GAX	DISG 6990
276000012	ATR-MW77(41)-G072518			AM20GAX	DISG 6990
276000013	ATR-MW78(35)-G072518			AM20GAX	DISG 6990
276000014	ATR-MW78(35)-G072518-EB			AM20GAX	DISG 6990
276000015	ATR-MW76(30)-G072518			AM20GAX	DISG 6990
276000016	ATR-MW76(30)-G072518-R			AM20GAX	DISG 6990
276000017	ATR-MW12-G072618			AM20GAX	DISG 6990
276000018	ATR-MW13-G072618			AM20GAX	DISG 6990
276000019	ATR-MW13-G072618-EB			AM20GAX	DISG 6990
276000020	ATR-MW6C-G072618			AM20GAX	DISG 6990
276000021	ATR-OW5(16)-G072318			AM20GAX	DISG 6993



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CHAIN-OF-CUSTODY / Analytical Request Document
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

27600

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: Wood E&TS	Report To: Paul Spork	Attention:	Company Name:	REGULATORY AGENCY	
Address: 521 Byers Rd Ste 204	Copy To:		Address:	NPDES	GROUND WATER
Email To: Paul Spork paul@wood-e.com			Pace Quote Reference:	UST	RCRA
Phone: 412 859 3600			Pace Project Manager:	Site Location	STATE: IN
Fax: 412 859 3600			Pace Profile #:		
Requested Due Date/AT:	Project Name: Textren, Inc.	Project Number: 3359/151040.15			
	Purchase Order No: CO12605143				

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	Matrix Code (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test ↓	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
					DATE	TIME			DATE	TIME	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	TSP				
1	ATR-MW59628-6072418	DW WT WW	WT G	G	7/24/18	1635		3	X	X	X	X	X	X	X	X	X		
2	ATR-MW59628-6072418-R	DW WT WW	WT G	G		1635		3	X	X	X	X	X	X	X	X	X		
3	ATR-MW59628-6072418	DW WT WW	WT G	G		1530		3	X	X	X	X	X	X	X	X	X		
4	ATR-PW2-6072418	DW WT WW	WT G	G		1420		3	X	X	X	X	X	X	X	X	X		
5	ATR-DW1(28)-6072418	DW WT WW	WT G	G		1125		3	X	X	X	X	X	X	X	X	X		
6	ATR-DW1(28)-6072418-EB	DW WT WW	WT G	G		1140		3	X	X	X	X	X	X	X	X	X		
7	ATR-DW1(39)-6072418	DW WT WW	WT G	G		1015		3	X	X	X	X	X	X	X	X	X		
8	ATR-MW72(32)-6072518	DW WT WW	WT G	G	7/25/18	1025		3	X	X	X	X	X	X	X	X	X		
9	ATR-MW71(33)-6072518	DW WT WW	WT G	G		1130		3	X	X	X	X	X	X	X	X	X		
10	ATR-MW67(30)-6072518	DW WT WW	WT G	G		1225		3	X	X	X	X	X	X	X	X	X		
11	ATR-MW68(32)-6072518	DW WT WW	WT G	G		1325		3	X	X	X	X	X	X	X	X	X		
12	ATR-MW77(41)-6072518	DW WT WW	WT G	G		1540		3	X	X	X	X	X	X	X	X	X		
ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS										
							7/31/18	1100	3	Y	Y	Y	Y						

ORIGINAL

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	<i>Paul Spork</i>				
SIGNATURE of SAMPLER:	<i>Paul Spork</i>				
DATE Signed (MM/DD/YY):	07/30/18				

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

CHAIN-OF-CUSTODY / Analytical Request Document
The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

27600

Section A
Required Client Information:
Company: **Abol EETS**
Address: **521 Byers Rd Ste 204**
Email To: **Abol EETS**
Phone: **724-338-0000**
Requested Date/AT: _____

Section B
Required Project Information:
Report To: **Paul Stark**
Copy To: _____
Purchase Order No.: **CD18055143**
Project Name: **Lepton, Inc.**
Project Number: **3359151040.15**

Section C
Invoice Information:
Attention: _____
Company Name: _____
Address: _____
Reference: _____
Pace Project Manager: _____
Pace Profile #: _____

Page: **4** of **4**
011564

REGULATORY AGENCY
NPDES GROUND WATER DRINKING WATER
UST RCRA OTHER _____
Site Location STATE: **IN**

ITEM #	Section D Required Client Information Matrix Codes MATRIX / CODE DW Drinking Water WT Water WW Waste Water P Product SL Soil/Solid OI Oil WI Wipe AI Air TS Tissue OT Other	Matrix Code (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.	
				DATE	TIME			H ₂ SO ₄	HNO ₃	HCl	TSP	BAK	Zinc Acetate & NaOH	Other				Analysis Test
1	ATR-MW78(3S)-G072518	WT G	WT G	7/25/18	14:05	3												
2	ATR-MW78(3S)-G072518-EB	WT G	WT G	7/25/18	14:35	3												
3	ATR-MW76(3G)-G072518	WT G	WT G	7/25/18	12:40	3												
4	ATR-MW76(3G)-G072518	WT G	WT G	7/25/18	12:40	3												
5	ATR-MW11-G072618-0845	WT G	WT G	7/26/18	08:45	3												
6	ATR-MW12-G072618	WT G	WT G	7/26/18	09:10	3												
7	ATR-MW13-G072618	WT G	WT G	7/26/18	10:16	3												
8	ATR-MW13-G072618-EB	WT G	WT G	7/26/18	10:00	3												
9	ATR-MW6C-G072618	NT G	NT G	7/26/18	08:45	3												
10	ATR-OW15(1U)-G072318	WT G	WT G	7/23/18	11:45	3												
11																		
12																		

ADDITIONAL COMMENTS: _____
RELINQUISHED BY / AFFILIATION: _____
DATE: _____
ACCEPTED BY / AFFILIATION: **DESM PAS**
DATE: **7.31.18**
TIME: **1100**
SAMPLE CONDITIONS: **3 Y Y Y**

Section D
Required Client Information
Matrix Codes
MATRIX / CODE
DW Drinking Water
WT Water
WW Waste Water
P Product
SL Soil/Solid
OI Oil
WI Wipe
AI Air
TS Tissue
OT Other

ORIGINAL
SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: **Gerold L. Dambusch Sr**
SIGNATURE of SAMPLER: **Gerold L. Dambusch Sr**
DATE Signed (MM/DD/YYYY): **6/7/30/18**
Temp in °C: _____
Received on Ice (Y/N): _____
Custody Sealed Cooler (Y/N): _____
Samples Intact (Y/N): _____

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.
F-ALL-Q-020rev.07, 15-May-2007

Cooler Receipt Form

Client Name: Wood ESIS Project: Textion Lab Work Order: 27600

A. Shipping/Container Information (circle appropriate response)

Courier: FedEx UPS USPS Client Other: _____ Air bill Present: Yes No

Tracking Number: 772852561985

Custody Seal on Cooler/Box Present: Yes No Seals Intact: Yes No

Cooler/Box Packing Material: Bubble Wrap Absorbent Foam Other: _____

Type of Ice: Wet Blue None Ice Intact: Yes Melted

Cooler Temperature: 30C Radiation Screened: Yes No Chain of Custody Present: Yes No

Comments: _____

B. Laboratory Assignment/Log-in (check appropriate response)

	YES	NO	N/A	Comment Reference non-Conformance
Chain of Custody properly filled out	✓			
Chain of Custody relinquished	✓			
Sampler Name & Signature on COC	✓			
Containers intact	✓			
Were samples in separate bags	✓			
Sample container labels match COC Sample name/date and time collected		✓		
Sufficient volume provided	✓			
PAES containers used	✓			
Are containers properly preserved for the requested testing? (as labeled)	✓			
If an unknown preservation state, were containers checked? Exception: VOA's coliform			✓	If yes, see pH form.
Was volume for dissolved testing field filtered, as noted on the COC? Was volume received in a preserved container?			✓	
Headspace present?	✓			

Comments: _____

Cooler contents examined/received by: LY Date: 7.31.18

Project Manager Review: ERF Date: 7/31/18

NON-CONFORMANCE FORM

PAES Work Order #: 27600

Date: 7.31.18 Time of Receipt: 1100 Receiver: LY

Client: Wood E & IS

REASON FOR NON-CONFORMANCE:

- ~~1. ATR-PM3-G072418 & ATR-PM3-G072418-R:~~
~~Vials time was 14-15. #08/1/18~~
2. ATR-MW67(30)-G072518; Vials ID was
ATR-MW67-G072518.
3. ATR-MW76(30)-G072518-R; was not on COC
but ATR-MW76(30)-G072518 was listed twice.
Logged the "R" one in as the 2nd sample.

ACTION TAKEN:

Client name: Paul Stork Date: 8-1-18 Time: 0620

Enrolled client logged per COC pending response

Customer Service Initials: _____

Date: _____

Ruth Welsh - RE: Textron

From: "Dornbusch, Gerald" <gerald.dornbusch@woodplc.com>
To: Ruth Welsh <Ruth.Welsh@pacelabs.com>
Date: 8/1/2018 5:42 PM
Subject: RE: Textron

Hello Ruth,

I am the one who packaged the samples and sent them by FedEx. I inadvertently signed in the wrong spot. I thought I was supposed to sign on the sampler line. I can attest that I packaged all the samples and relinquished them to FedEx on July 30, 2018 at 1712. If you need a copy of the FedEx receipt or something else from me let me know.

Thanks Jerry

From: Ruth Welsh [Ruth.Welsh@pacelabs.com]
Sent: Wednesday, August 01, 2018 4:57 PM
To: paul.stork@woodplc.com
Cc: gerald.dornbusch@woodplc.com
Subject: RE: Textron

Thank you

Ruth Welsh

Assistant General Manager
Pace Analytical Energy Services, LLC
220 William Pitt Way, Pittsburgh, PA 15238
[412-826-2387](tel:412-826-2387) (O) | [412-209-8995](tel:412-209-8995) (C)
www.pacelabs.com

>>> "Stork, Paul J." <paul.stork@woodplc.com> 8/1/2018 4:50 PM >>>
Ruth,

Answering your questions:

The sampler thought he was relinquishing the samples when he signed the COCs, he got confused. I will have him send a follow-up email to you stating he relinquished the samples to FED Ex on July 30th.

On Lab WO 27599; the correct sample time is from the vial at 14:15.

Lab WO 27600; the sample ID should be ATR-MW67(30)-G072518; We left off the "R" on the COC for sample ATR-MW76(30)-G072518.

Thanks, Paul

Paul Stork
Principal Project Manager
Environment & Infrastructure Solutions
Office 937 859 3600
Direct: 937 353 7210
Mobile: 937 671 7573
Note: Amec Foster Wheeler E&I is now part of Wood
www.woodplc.com



From: Ruth Welsh [<mailto:Ruth.Welsh@pacelabs.com>]
Sent: Wednesday, August 01, 2018 6:28 AM
To: paul.stork@woodplc.com
Subject: Textron

We received the samples yesterday for the Textron project. There were some discrepancies between the sample labels and the COC. I have attached a copy of the COCs for your reference. None of the COCs were signed as relinquished to the lab. Because of the number of samples, we broke the shipment into 2 projects;

Lab WO 27599

Samples ATR-PM3-G072418 and ATR-PM3-G072418-R have a sample collection time of 14:50 on the COC but the vials are labeled as 14:15.

Lab WO 27600

Sample ATR-MW67(30)-G072518 was listed on the COC, the vials are labeled as ATR-MW67-G072518

We received sample ATR-MW76(30)-G072518-R. This sample was not listed on the COC; however sample ATR-MW76(30)-G072518 was listed twice. We took 1 set of vials to use as ATR-MW76(30)-G072518-R

Please confirm which IDs and times you would like us to reference so that all of the records agree,

Thank you

Ruth Welsh

Assistant General Manager

Pace Analytical Energy Services, LLC

220 William Pitt Way, Pittsburgh, PA 15238

412-826-2387 (O) | 412-209-8995(C)

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Ruth Welsh - FW: Textron

From: "Dornbusch, Gerald" <gerald.dornbusch@woodplc.com>
To: Ruth Welsh <Ruth.Welsh@pacelabs.com>
Date: 8/1/2018 5:44 PM
Subject: FW: Textron

Hello again,

This was my response to all your and Paul's questions.

Thanks for your understanding as I am new to this.

Jerry

From: Dornbusch, Gerald
Sent: Wednesday, August 01, 2018 5:31 PM
To: Stork, Paul J. <paul.stork@woodplc.com>
Subject: RE: Textron

Hello,

I hope I can clarify these issue for you.

LAB WO 27599

The sample ATR-PM3-G072418 were collected at 1415 and that is the time which should have been listed. The vials are correct the chain of custody is incorrect as to the collection time.

LAB WO 27600

The labels on the vials should have read ATR-MW67(30)-G072518. The sampler must have missed the (30) on the vials but has it on his sheet.

The samples labeled ATR-MW76(30)-G072518 should have been labeled both ways one like this one stated and one labeled ATR-MW76(30)-G072518-R. They were collected at the same time and are replicates of the first one. Please add that sample if it is not on the COC. It was my oversight.

I hope this clarifies all the discrepancies of our samples.

Thanks Jerry

From: Stork, Paul J. [mailto:paul.stork@woodplc.com]
Sent: Wednesday, August 01, 2018 6:31 AM
To: Dornbusch, Gerald <gerald.dornbusch@woodplc.com>
Subject: Fw: Textron

jerry, can you answer the laboratory's questions thanks

From: Ruth Welsh <Ruth.Welsh@pacelabs.com>
Sent: Wednesday, August 1, 2018 6:28 AM
To: paul.stork@woodplc.com
Subject: Textron

We received the samples yesterday for the Textron project. There were some discrepancies between the sample labels and the COC. I have attached a copy of the COCs for your reference. None of the COCs were signed as relinquished to the lab. Because of the number of samples, we broke the shipment into 2 projects;

Lab WO 27599

Samples ATR-PM3-G072418 and ATR-PM3-G072418-R have a sample collection time of 14:50 on the COC but the vials are labeled as 14:15.

Lab WO 27600

Sample ATR-MW67(30)-G072518 was listed on the COC, the vials are labeled as ATR-MW67-G072518

We received sample ATR-MW76(30)-G072518-R. This sample was not listed on the COC; however sample ATR-MW76(30)-G072518 was listed twice. We took 1 set of vials to use as ATR-MW76(30)-G072518-R

Please confirm which IDs and times you would like us to reference so that all of the records agree,

Thank you

Ruth Welsh

Assistant General Manager

Pace Analytical Energy Services, LLC

220 William Pitt Way, Pittsburgh, PA 15238

412-826-2387 (O) |412-209-8995(C)

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Ruth Welsh - Textron

From: Ruth Welsh
To: Stork Paul J.
Subject: Textron

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Lab WO 27599

Samples ATR-PM3-G072418 and ATR-PM3-G072418-R have a sample collection time of 14:50 on the COC but the vials are labeled as 14:15.

Lab WO 27600

Sample ATR-MW67(30)-G072518 was listed on the COC, the vials are labeled as ATR-MW67-G072518

We received sample ATR-MW76(30)-G072518-R. This sample was not listed on the COC; however sample ATR-MW76(30)-G072518 was listed twice. We took 1 set of vials to use as ATR-MW76(30)-G072518-R

Please confirm which IDs and times you would like us to reference so that all of the records agree,

Thank you

Ruth Welsh

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**DATA VALIDATION REPORT
JULY 2018 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA**

1.0 INTRODUCTION

Groundwater samples were collected during monitoring well sampling completed in July 2018 at the Former TORX Facility in Rochester, Indiana. Samples were analyzed by ALS Laboratory Group in Holland, Michigan. A summary of sample delivery groups (SDGs) and field samples included in this review is contained in Table 1. Samples reviewed in this report were analyzed for the following USEPA SW-846 (USEPA, 1996) method:

- Volatile Organic Compounds (VOCs) by USEPA Method 8260B

Sample results were validated using general procedures in the USEPA National Data Validation Guidelines (USEPA, 1999), Indiana Department of Environmental Management (IDEM) data validation guidelines (IDEM, 2012), and data validation goals identified in the Work Plan Appendix N Quality Assurance Project Plan (QAPP) [AMEC, 2014]. Project data quality criteria for the VOC analyses are identified based on IDEM quality control (QC) goals (IDEM, 1998) and the professional judgment of the project chemist. A summary of project QC limits used during data validation is provided in Table 2. Full validation was completed on ten percent of the samples. Full validation was completed on a subset of samples in SDG 18071359. Full validation includes review of raw instrument data, lab notebook records, and calculation checks in addition to the following parameters:

- laboratory report narrative
- sample chain of custody/sample receipt records
- sample preservation and holding times
- instrument tuning and calibration
- QC blanks
- laboratory control sample (LCS) results
- matrix spike and matrix spike duplicate (MS/MSD) sample results
- surrogate recovery
- internal standard recovery and retention times
- field duplicate sample results
- sample results summary
- verification of electronic database results

Level II validation was completed on the remaining ninety percent of the data in accordance with specifications in the Work Plan. During the Level II validation the major quality assurance (QA)/QC indicators of analytical data quality are reviewed, but review of calculations and raw laboratory data is not included. QC data checks are completed using QC summary forms provided in the laboratory packages. The following parameters are checked during the Level II review:

- laboratory report narrative
- sample chain of custody/sample receipt records
- sample preservation and holding times
- QC blanks
- laboratory control sample (LCS) results
- matrix spike and matrix spike duplicate (MS/MSD) sample results

- surrogate recovery
- internal standard recovery and retention times
- field duplicate sample results
- sample results summary
- verification of electronic database results

Final sample results are presented in Table 3. A summary of qualification actions is presented on Table 4. Table 4 includes listings of validation reason codes to document the reason for the validation qualification. Target analytes were reported as detections if concentrations were greater than the reporting limit (RL). If target compounds were not detected, or concentrations were less than RLs, the compounds are reported as non-detect (U) at the reporting limits. Data validation qualifiers were added to results if associated quality control data did not meet goals in the validation guidelines or project work plan. The following data quality flags shown below were used to qualify data that did not meet project specific QC goals.

UJ – undetected and reporting limit is estimated
U – undetected
J - estimated value

2.0 VALIDATION OBSERVATION AND ACTIONS

With the exception of the data qualification actions discussed in the sections below, results are interpreted to be usable as reported by the laboratory. A summary of qualification actions is presented on Table 4. Validation reason codes are applied to the results to document the reason for the validation qualification.

2.1 VOCs

During the Level II review the data quality indicators listed below were reviewed. Checks that included validation actions are marked with an asterisk (*) and discussed in the following sections.

- laboratory report narrative
- sample chain of custody/sample receipt records
- sample preservation and holding times
- QC blanks
- laboratory control sample (LCS) results*
- matrix spike and matrix spike duplicate (MS/MSD) sample results*
- surrogate recovery
- internal standard recovery and retention times
- field duplicate sample results
- sample results summary
- verification of electronic database results

During the full validation the data quality indicators listed below were also reviewed:

- instrument tuning
- initial calibration
- continuing calibration*
- calculation checks specified in USEPA guidelines
- analyte identification and quantitation

Continuing Calibration

In a subset of continuing calibration standards, percent differences for the following target analytes exceeded the project goal of 20 in one or more sample batches:

Bromomethane
Chloroethane
Chloromethane

These analytes were not detected in associated samples, and reporting limits were qualified estimated (UJ). Qualified results are summarized in Table 4 with reason code CCV%D.

LCS

In the LCS associated with batch R241432a, the recovery of chloromethane (68) was less than the limit of 70. Chloromethane was not detected in associated samples and reporting limits were qualified estimated (UJ). Qualified results are included in Table 4 and were assigned reason code LCS-L.

MS/MSD

A subset of results for the following compounds was qualified as estimated values (J/UJ) due to MS/MSD percent recoveries outside the QAPP specified control limits. Qualified results are summarized in Table 4 and were assigned reason code MS-L, MS-H, and/or MS-RPD.

2-Butanone
Acetone
Chloroethane
Chloromethane
cis-1,2-Dichloroethene
Trichloroethene

In the MS/MSD associated with sample ATR-OW6(63)-G071918, percent recoveries for 2-butanone (-126, -75), chloroethane (29, 21), and acetone (172) were outside of the 70-130 control limits. In addition, the relative percent difference (RPD) between MS and MSD recoveries for acetone (64) was greater than the control limit of 20. The reporting limit for chloroethane in sample ATR-OW6(63)-G071918 was qualified estimated (UJ). Results for 2-butanone and acetone were qualified estimated (J).

In the MS/MSD associated with sample ATR-MW81(27)-G072418, percent recoveries for chloromethane (61) and cis-1,2-dichloroethene (148, 143) were outside of the 70-130 control limits. Chloromethane was not detected in the sample and the reporting limit was qualified estimated (UJ). The result for cis-1,2-dichloroethene was qualified estimated (J) and may represent a potential high bias.

In the MS/MSD associated with sample ATR-MW68(32)-G072518, percent recoveries for 2-butanone (68), chloromethane (64,) and cis-1,2-dichloroethene (146, 144) were outside of the 70-130 control limits.

Chloromethane was not detected in the sample and the reporting limit was qualified estimated (UJ). The result for 2-butanone was qualified estimated (J) and may be biased low, and the result for cis-1,2-dichloroethene was qualified estimated (J) and may represent a potential high bias.

In the MS associated with sample ATR-MW11-G072618, percent recovery for trichloroethene (132) was greater than the 70-130 control limits. The result for trichloroethene was qualified estimated (J) and may represent a potential high bias.

Field Duplicates

Field duplicates were collected at locations MW-31(98.5), MW-27(18), MW-17, MW-24(55.9), MW-59(29), PM-3, and MW-76(30). Good agreement was observed for all results reported in these samples and associated field duplicates.

Reference:

IDEM, 1998. "Guidance to the Performance and Presentation of Analytical Chemistry Data"; Indiana Department of Environmental Monitoring; Technical Waste Assessment, Rev. 1: July 16, 1998.

IDEM, 2012. "Remediation Closure Guide"; Office of Land Quality; Indiana Department of Environmental Management; March 22, 2012, with corrections through July 9, 2012.

AMEC, 2014. "Investigation Work Plan Former TORX Facility 4366 North Old US Rt. 31 Rochester, Indiana"; Appendix N QAPP – Groundwater Data Collection, Sampling, and Analyses; June 2014.

U.S. Environmental Protection Agency (USEPA), 1996. "Test Methods for Evaluating Solid Waste"; Laboratory Manual Physical/Chemical Methods; Office of Solid Waste and Emergency Response; Washington, DC; SW-846; November 1986; Revision 4 -December 1996.

U.S. Environmental Protection Agency (USEPA), 1999. "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review"; Office of Emergency and Remedial Response; EPA-540/R-99/008; October 1999.

Data Validator: Julie Ricardi



Date: October 10, 2018

Report Reviewed by: Chris Ricardi, NRCC_EAC



Date: October 18, 2018

TABLE 1 - SAMPLE AND ANALYSIS SUMMARY
DATA VALIDATION REPORT
JULY 2018 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

SDG	Lab Sample ID	Location	Field Sample ID	Date	Matrix	Type	SW826 VOC
18071359	18071359-01A	MW-85(130)	ATR-MW85(130)-G071718	7/17/2018	GW	FS	36
18071359	18071359-02A	MW-85(39)	ATR-MW85(39)-G071718	7/17/2018	GW	FS	36
18071359	18071359-03A	MW-38(102.5)	ATR-MW38(102)-G071718	7/17/2018	GW	FS	36
18071359	18071359-04A	QC	ATR-MW38(102)-G071718-EB	7/17/2018	BW	EB	36
18071359	18071359-05A	MW-38(20.8)	ATR-MW38(20)-G071718	7/17/2018	GW	FS	36
18071359	18071359-06A	MW-38(69.9)	ATR-MW38(69.9)-G071718	7/17/2018	GW	FS	36
18071359	18071359-07A	MW-38(29.1)	ATR-MW38(29.1)-G071718	7/17/2018	GW	FS	36
18071359	18071359-08A	MW-1	ATR-MW1-G071718	7/17/2018	GW	FS	36
18071359	18071359-09A	MW-57(38)	ATR-MW57(38)-G071718	7/17/2018	GW	FS	36
18071359	18071359-10A	MW-39(13)	ATR-MW39(13)-G071718	7/17/2018	GW	FS	36
18071359	18071359-11A	MW-39(29.3)	ATR-MW39(29.3)-G071718	7/17/2018	GW	FS	36
18071359	18071359-12A	MW-39(76.8)	ATR-MW39(76.8)-G071718	7/17/2018	GW	FS	36
18071359	18071359-13A	MW-36(35.2)	ATR-MW36(35.2)-G071718	7/17/2018	GW	FS	36
18071359	18071359-14A	MW-36(124.5)	ATR-MW36(124.5)G071718	7/17/2018	GW	FS	36
18071359	18071359-15A	MW-37(70)	ATR-MW37(70)-G071718	7/17/2018	GW	FS	36
18071359	18071359-16A	MW-37(98)	ATR-MW37(98)-G071718	7/17/2018	GW	FS	36
18071359	18071359-17A	MW-35(148)	ATR-MW35(148)-G071818	7/18/2018	GW	FS	36
18071359	18071359-18A	MW-35(45)	ATR-MW35(45)-G071818	7/18/2018	GW	FS	36
18071359	18071359-19A	MW-35(90)	ATR-MW35(90)-G071818	7/18/2018	GW	FS	36
18071359	18071359-20A	MW-45(185)	ATR-MW45(185)G071818	7/18/2018	GW	FS	36
18071359	18071359-21A	MW-55(49)	ATR-MW55(49)-G071818	7/18/2018	GW	FS	36
18071359	18071359-22A	MW-56(50)	ATR-MW56(51)-G071818	7/18/2018	GW	FS	36
18071359	18071359-23A	MW-60(38)	ATR-MW60(38)-G071818	7/18/2018	GW	FS	36
18071359	18071359-24A	MW-36(92.4)	ATR-MW36(92.4)G071818	7/18/2018	GW	FS	36
18071359	18071359-25A	MW-29(103.3)	ATR-MW29(103.3)G071818	7/18/2018	GW	FS	36
18071359	18071359-26A	MW-29(132.8)	ATR-MW29(132.8)-G071818	7/18/2018	GW	FS	36
18071359	18071359-27A	MW-29(82.5)	ATR-MW29(82.5)G071818	7/18/2018	GW	FS	36
18071359	18071359-28A	MW-52(148)	ATR-MW52(148)-G071818	7/18/2018	GW	FS	36
18071359	18071359-29A	MW-52(55)	ATR-MW52(55)-G071818	7/18/2018	GW	FS	36
18071359	18071359-30A	MW-53(41)	ATR-MW53(41)-G071818	7/18/2018	GW	FS	36
18071359	18071359-31A	MW-31(139.2)	ATR-MW31(139.2)-G071818	7/18/2018	GW	FS	36
18071359	18071359-32A	MW-31(30.9)	ATR-MW31(30.9)-G071818	7/18/2018	GW	FS	36
18071359	18071359-33A	MW-31(55.5)	ATR-MW31(55.5)-G071818	7/18/2018	GW	FS	36
18071359	18071359-34A	MW-31(98.5)	ATR-MW31(98.5)-G071818	7/18/2018	GW	FS	36
18071359	18071359-35A	MW-31(98.5)	ATR-MW31(98.5)-G071818-R	7/18/2018	GW	FD	36
18071359	18071359-36A	MW-3	ATR-MW3-G071818	7/18/2018	GW	FS	36
18071359	18071359-37A	MW-50(45)	ATR-MW50(45)-G071819	7/19/2018	GW	FS	36
18071359	18071359-38A	MW-50(80)	ATR-MW50(80)-G071918	7/19/2018	GW	FS	36
18071359	18071359-39A	MW-32(110)	ATR-MW32(110)-G071918	7/19/2018	GW	FS	36
18071359	18071359-40A	MW-32(24.1)	ATR-MW32(24.1)-G071918	7/19/2018	GW	FS	36
18071359	18071359-41A	MW-32(89)	ATR-MW32(89)-G071918	7/19/2018	GW	FS	36

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SDG	Lab Sample ID	Location	Field Sample ID	Date	Matrix	Type	VOC
18071359	18071359-42A	MW-51(25)	ATR-MW51(25)-G071918	7/19/2018	GW	FS	36
18071359	18071359-43A	MW-51(70)	ATR-MW51(70)-G071918	7/19/2018	GW	FS	36
18071359	18071359-44A	MW-9C	ATR-MW9C-G071918	7/19/2018	GW	FS	36
18071359	18071359-45A	MW-19(53)	ATR-MW19(53)-G071918	7/19/2018	GW	FS	36
18071359	18071359-46A	MW-30(41.1)	ATR-MW30(41.1)-G071918	7/19/2018	GW	FS	36
18071359	18071359-47A	MW-9B	ATR-MW9B-G071918	7/19/2018	GW	FS	36
18071359	18071359-48A	MW-34(37)	ATR-MW34(37)-G071918	7/19/2018	GW	FS	36
18071359	18071359-49A	MW-34(85)	ATR-MW34(85)-G071918	7/19/2018	GW	FS	36
18071359	18071359-50A	MW-34(110)	ATR-MW34(110)-G071918	7/19/2018	GW	FS	36
18071359	18071359-51A	OW-06(63)	ATR-OW6(63)-G071918	7/19/2018	GW	FS	36
18071359	18071359-52A	OW-06(38)	ATR-OW6(38)-G071918	7/19/2018	GW	FS	36
18071359	18071359-53A	QC	ATR-MW34(37)-G071918-EB	7/19/2018	BW	EB	36
18071359	18071359-54A	QC	FIELD BLANK	7/19/2018	BW	FB	36
18071359	18071359-55A	MW-27(104.2)	ATR-MW27(104.2)-G072018	7/20/2018	GW	FS	36
18071359	18071359-56A	MW-27(75.4)	ATR-MW27(75.4)G072018	7/20/2018	GW	FS	36
18071359	18071359-57A	MW-27(53.05)	ATR-MW27(53.05)-G072018	7/20/2018	GW	FS	36
18071359	18071359-58A	MW-27(18)	ATR-MW27(18)-G072018	7/20/2018	GW	FS	36
18071359	18071359-59A	MW-27(18)	ATR-MW27(18)-G072018-R	7/20/2018	GW	FD	36
18071359	18071359-60A	MW-48(159)	ATR-MW48(159)-G072018	7/20/2018	GW	FS	36
18071359	18071359-61A	MW-84(44)	ATR-MW84(44)-G072018	7/20/2018	GW	FS	36
18071359	18071359-62A	QC	ATR-MW27(18)-G072018-EB	7/20/2018	BW	EB	36
18071359	18071359-63A	QC	ATR-072018-TB-02	7/20/2018	GW	TB	36
18071359	18071359-64A	MW-37(23.3)	ATR-MW37(23)G071718	7/17/2018	GW	FS	36
18071359	18071359-65A	QC	ATR-MW31(30.9)-G071818-EB	7/18/2018	BW	EB	36
18071390	18071390-01A	MW-16	ATR-MW16-G071918	7/19/2018	GW	FS	36
18071390	18071390-02A	MW-17	ATR-MW17-G071918-R	7/19/2018	GW	FD	36
18071390	18071390-03A	MW-17	ATR-MW17-G071918	7/19/2018	GW	FS	36
18071390	18071390-04A	ZVI-2(32.5)	ATR-ZVI-2(32.5)-G071918	7/19/2018	GW	FS	36
18071390	18071390-05A	ZVI-2(17.5)	ATR-ZVI-2(17.5)-G071918	7/19/2018	GW	FS	36
18071390	18071390-06A	MW-26(17.5)	ATR-MW26(17.5)-G072018	7/20/2018	GW	FS	36
18071390	18071390-07A	MW-26(28.8)	ATR-MW26(28.8)-G072018	7/20/2018	GW	FS	36
18071390	18071390-08A	MW-26(58.8)	ATR-MW26(58.2)-G072018	7/20/2018	GW	FS	36
18071390	18071390-09A	QC	ATR-G072018-TB-03	7/20/2018	BW	TB	36
18071884	18071884-01A	MW-25(16.4)	ATR-MW25(16.4)-G072318	7/23/2018	GW	FS	36
18071884	18071884-02A	MW-25(32.6)	ATR-MW25(32.6)-G072318	7/23/2018	GW	FS	36
18071884	18071884-03A	MW-15	ATR-MW15-G072318	7/23/2018	GW	FS	36
18071884	18071884-04A	QC	ATR-MW15-G072318-EB	7/23/2018	BW	EB	36
18071884	18071884-05A	OW-05(54)	ATR-OW5(44)-G072318	7/23/2018	GW	FS	36
18071884	18071884-06A	OW-05(35)	ATR-OW5(35)-G072318	7/23/2018	GW	FS	36
18071884	18071884-07A	OW-05(16)	ATR-OW5(16)-G072318	7/23/2018	GW	FS	36
18071884	18071884-08A	MW-24(55.9)	ATR-MW24(55.4)-G072318	7/23/2018	GW	FS	36
18071884	18071884-09A	MW-24(55.9)	ATR-MW24(55.4)-G072318-R	7/23/2018	GW	FD	36

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SDG	Lab Sample ID	Location	Field Sample ID	Date	Matrix	Type	VOC
18071884	18071884-10A	MW-24(24.9)	ATR-MW24(24.9)-G072318	7/23/2018	GW	FS	36
18071884	18071884-11A	OW-02(53)	ATR-OW2(55)-G072318	7/23/2018	GW	FS	36
18071884	18071884-12A	OW-02(33)	ATR-OW2(33)-G072318	7/23/2018	GW	FS	36
18071884	18071884-13A	OW-04(35)	ATR-OW4(35)-G072318	7/23/2018	GW	FS	36
18071884	18071884-14A	MW-59(29)	ATR-MW59(29)-G072418	7/24/2018	GW	FS	36
18071884	18071884-15A	MW-59(29)	ATR-MW59(29)-G072418-R	7/24/2018	GW	FD	36
18071884	18071884-16A	MW-81(27)	ATR-MW81(27)-G072418	7/24/2018	GW	FS	36
18071884	18071884-17A	PM-2	ATR-PM2-G072418	7/24/2018	GW	FS	36
18071884	18071884-18A	OW-01(28)	ATR-OW1(28)-G072418	7/24/2018	GW	FS	36
18071884	18071884-19A	QC	ATR-OW1(28)-G072418-EB	7/24/2018	BW	EB	36
18071884	18071884-20A	OW-01(39)	ATR-OW1(39)-G072418	7/24/2018	GW	FS	36
18071884	18071884-21A	OW-04(54)	ATR-OW4(54)-G072418	7/24/2018	GW	FS	36
18071884	18071884-22A	MW-82(58)	ATR-MW82(58)-G072418	7/24/2018	GW	FS	36
18071884	18071884-23A	MW-25(45.2)	ATR-MW25(45.2)-G072418	7/24/2018	GW	FS	36
18071884	18071884-24A	MW-14	ATR-MW14-G072418	7/24/2018	GW	FS	36
18071884	18071884-25A	PM-3	ATR-PM-3-G072418	7/24/2018	GW	FS	36
18071884	18071884-26A	PM-3	ATR-PM-3-G072418-R	7/24/2018	GW	FD	36
18071884	18071884-27A	MW-62(36)	ATR-MW62(36)-G072418	7/24/2018	GW	FS	36
18071884	18071884-28A	OW-03(35)	ATR-OW3(35)-G072418	7/24/2018	GW	FS	36
18071884	18071884-29A	OW-03(55)	ATR-OW3(55)-G072418	7/24/2018	GW	FS	36
18071884	18071884-30A	MW-20(35)	ATR-MW20(35)-G072418	7/24/2018	GW	FS	36
18071884	18071884-31A	MW-20(51)	ATR-MW20(51)-G0724718	7/24/2018	GW	FS	36
18071884	18071884-32A	MW-72(32)	ATR-MW72(32)-G072518	7/25/2018	GW	FS	36
18071884	18071884-33A	MW-71(33)	ATR-MW71(33)-G072518	7/25/2018	GW	FS	36
18071884	18071884-34A	MW-67(30)	ATR-MW67(30)-G072518	7/25/2018	GW	FS	36
18071884	18071884-35A	MW-68(32)	ATR-MW68(32)-G072518	7/25/2018	GW	FS	36
18071884	18071884-36A	MW-77(41)	ATR-MW77(41)-G072518	7/25/2018	GW	FS	36
18071884	18071884-37A	MW-78(35)	ATR-MW78(35)-G072518	7/25/2018	GW	FS	36
18071884	18071884-38A	QC	ATR-MW78(35)-G072518-EB	7/25/2018	BW	EB	36
18071884	18071884-39A	MW-76(30)	ATR-MW76(30)-G072518	7/25/2018	GW	FS	36
18071884	18071884-40A	MW-76(30)	ATR-MW76(30)-G072518-R	7/25/2018	GW	FD	36
18071884	18071884-41A	MW-12	ATR-MW12-G072618	7/26/2018	GW	FS	36
18071884	18071884-42A	MW-13	ATR-MW13-G072618	7/26/2018	GW	FS	36
18071884	18071884-43A	QC	ATR-MW13-G072618-EB	7/26/2018	BW	EB	36
18071884	18071884-44A	MW-6C	ATR-MW6C-G072618	7/26/2018	GW	FS	36
18071884	18071884-45A	QC	ATR-072618-TB1	7/26/2018	GW	TB	36
18071908	18071908-01A	MW-84(65)	ATR-MW84(65)-G072318	7/23/2018	GW	FS	36
18071908	18071908-02A	MW-25(82)	ATR-MW25(82)-G072318	7/23/2018	GW	FS	36
18071908	18071908-03A	MW-83(64)	ATR-MW83(64)-G072318	7/23/2018	GW	FS	36
18071908	18071908-04A	MW-89(28)	ATR-MW89(28)-G072418	7/24/2018	GW	FS	36
18071908	18071908-05A	MW-59(46)	ATR-MW59(46)-G072418	7/24/2018	GW	FS	36
18071908	18071908-06A	MW-20(124)	ATR-MW20(124)-G072418	7/24/2018	GW	FS	36

TABLE 1 - SAMPLE AND ANALYSIS SUMMARY
 DATA VALIDATION REPORT
 JULY 2018 GROUNDWATER SAMPLING
 TEXTRON FORMER TORX FACILITY
 ROCHESTER, INDIANA

SDG	Lab Sample ID	Location	Field Sample ID	Date	Matrix	Type	VOC
18071908	18071908-07A	MW-20(155)	ATR-MW20(155)-G072418	7/24/2018	GW	FS	36
18071908	18071908-08A	MW-65(32)	ATR-MW65(32)-G072518	7/25/2018	GW	FS	36
18071908	18071908-09A	MW-75(32)	ATR-MW75(32)-G072518	7/25/2018	GW	FS	36
18071908	18071908-10A	MW-79(30)	ATR-MW79(30)-G072518	7/25/2018	GW	FS	36
18071908	18071908-11A	MW-11	ATR-MW11-G072618	7/26/2018	GW	FS	36

Notes:

BW = blank water

EB = equipment blank

FD = field duplicate

FS = field sample

GW = groundwater

TB = trip blank

**TABLE 2 - QC LIMITS
DATA VALIDATION REPORT
JULY 2018 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA**

PARAMETER	QC TEST	ANALYTE	WATER (%)	WATER RPD
Volatiles	Surrogate	All Surrogates(1) All Target	85 - 115	
	LCS	Compounds All Target	70 - 130	
	MS/MSD	Compounds All Target	70 - 130	20(2)
	Field Duplicates	Compounds		25(3)

Notes:

LCS - Laboratory Control Sample

MS/MSD - Matrix Spike/ Matrix Spike Duplicate

(1) Project-specific limits for surrogate recovery review/validation are established based on subcontract laboratory and Indiana Department of Environmental Management (IDEM) recommended control limits. The project limits are used for evaluation of recovery for all surrogates during data validation.

(2) Both results are > 5X the sample quantitation limit (SQL). For aqueous results < 5X the SQL use \pm SQL value. For solid media (soil and sediment) use \pm 2X SQL value.

(3) Both results are > 5X the SQL. For aqueous results < 5X the SQL use \pm 1.5X SQL value. For solid media (soil and sediment) use \pm 2.5X SQL value.

TABLE 3 - QUALIFICATION ACTIONS SUMMARY
DATA VALIDATION REPORT
JULY 2018 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

SDG	Analysis Method	Lab Sample Id	Sample Date	Field Sample Id	Param Name	Lab Result Text	Lab Qual	Final Result	Final Qual	Val Reason Code	Result Uom
18071359	SW8260C	18071359-08A	7/17/2018	ATR-MW1-G071718-1135	Bromomethane	1 U		1 UJ		CCV%D	UG/L
18071359	SW8260C	18071359-08A	7/17/2018	ATR-MW1-G071718-1135	Chloromethane	1 U		1 UJ		CCV%D	UG/L
18071359	SW8260C	18071359-45A	7/19/2018	ATR-MW19(53)-G071918	Bromomethane	1 U		1 UJ		CCV%D	UG/L
18071359	SW8260C	18071359-57A	7/20/2018	ATR-MW27(53.05)-G072018	Bromomethane	1 U		1 UJ		CCV%D	UG/L
18071359	SW8260C	18071359-56A	7/20/2018	ATR-MW27(75.4)G072018	Bromomethane	1 U		1 UJ		CCV%D	UG/L
18071359	SW8260C	18071359-25A	7/18/2018	ATR-MW29(103.3)G071818	Bromomethane	1 U		1 UJ		CCV%D	UG/L
18071359	SW8260C	18071359-26A	7/18/2018	ATR-MW29(132.8)-G071818	Bromomethane	1 U		1 UJ		CCV%D	UG/L
18071359	SW8260C	18071359-27A	7/18/2018	ATR-MW29(82.5)G071818	Bromomethane	1 U		1 UJ		CCV%D	UG/L
18071359	SW8260C	18071359-36A	7/18/2018	ATR-MW3-G071818	Bromomethane	1 U		1 UJ		CCV%D	UG/L
18071359	SW8260C	18071359-46A	7/19/2018	ATR-MW30(41.1)-G071918	Bromomethane	1 U		1 UJ		CCV%D	UG/L
18071359	SW8260C	18071359-31A	7/18/2018	ATR-MW31(139.2)-G071818	Bromomethane	1 U		1 UJ		CCV%D	UG/L
18071359	SW8260C	18071359-32A	7/18/2018	ATR-MW31(30.9)-G071818	Bromomethane	1 U		1 UJ		CCV%D	UG/L
18071359	SW8260C	18071359-33A	7/18/2018	ATR-MW31(55.5)-G071818	Bromomethane	1 U		1 UJ		CCV%D	UG/L
18071359	SW8260C	18071359-34A	7/18/2018	ATR-MW31(98.5)-G071818	Bromomethane	1 U		1 UJ		CCV%D	UG/L
18071359	SW8260C	18071359-35A	7/18/2018	ATR-MW31(98.5)-G071818-R	Bromomethane	1 U		1 UJ		CCV%D	UG/L
18071359	SW8260C	18071359-39A	7/19/2018	ATR-MW32(110)-G071918	Bromomethane	1 U		1 UJ		CCV%D	UG/L
18071359	SW8260C	18071359-40A	7/19/2018	ATR-MW32(24.1)-G071918	Bromomethane	1 U		1 UJ		CCV%D	UG/L
18071359	SW8260C	18071359-48A	7/19/2018	ATR-MW34(37)-G071918	Bromomethane	1 U		1 UJ		CCV%D	UG/L
18071359	SW8260C	18071359-17A	7/18/2018	ATR-MW35(148)-G071818	Bromomethane	1 U		1 UJ		CCV%D	UG/L
18071359	SW8260C	18071359-17A	7/18/2018	ATR-MW35(148)-G071818	Chloromethane	1 U		1 UJ		CCV%D	UG/L
18071359	SW8260C	18071359-18A	7/18/2018	ATR-MW35(45)-G071818	Bromomethane	1 U		1 UJ		CCV%D	UG/L
18071359	SW8260C	18071359-18A	7/18/2018	ATR-MW35(45)-G071818	Chloromethane	1 U		1 UJ		CCV%D	UG/L
18071359	SW8260C	18071359-19A	7/18/2018	ATR-MW35(90)-G071818	Bromomethane	1 U		1 UJ		CCV%D	UG/L
18071359	SW8260C	18071359-14A	7/17/2018	ATR-MW36(124.5)G071718	Bromomethane	1 U		1 UJ		CCV%D	UG/L
18071359	SW8260C	18071359-14A	7/17/2018	ATR-MW36(124.5)G071718	Chloromethane	1 U		1 UJ		CCV%D	UG/L
18071359	SW8260C	18071359-13A	7/17/2018	ATR-MW36(35.2)-G071718	Bromomethane	1 U		1 UJ		CCV%D	UG/L
18071359	SW8260C	18071359-13A	7/17/2018	ATR-MW36(35.2)-G071718	Chloromethane	1 U		1 UJ		CCV%D	UG/L
18071359	SW8260C	18071359-24A	7/18/2018	ATR-MW36(92.4)G071818	Bromomethane	1 U		1 UJ		CCV%D	UG/L
18071359	SW8260C	18071359-15A	7/17/2018	ATR-MW37(70)-G071718	Bromomethane	1 U		1 UJ		CCV%D	UG/L

TABLE 3 - QUALIFICATION ACTIONS SUMMARY
DATA VALIDATION REPORT
JULY 2018 GROUNDWATER SAMPLING
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SDG	Analysis Method	Lab Sample Id	Sample Date	Field Sample Id	Param Name	Lab Result Text	Lab Qual	Final Result	Final Qual	Val Reason Code	Result Uom
18071359	SW8260C	18071359-15A	7/17/2018	ATR-MW37(70)-G071718	Chloromethane	1 U		1 UJ		CCV%D	UG/L
18071359	SW8260C	18071359-16A	7/17/2018	ATR-MW37(98)-G071718	Bromomethane	1 U		1 UJ		CCV%D	UG/L
18071359	SW8260C	18071359-16A	7/17/2018	ATR-MW37(98)-G071718	Chloromethane	1 U		1 UJ		CCV%D	UG/L
18071359	SW8260C	18071359-03A	7/17/2018	ATR-MW38(102)-G071718	Bromomethane	1 U		1 UJ		CCV%D	UG/L
18071359	SW8260C	18071359-03A	7/17/2018	ATR-MW38(102)-G071718	Chloromethane	1 U		1 UJ		CCV%D	UG/L
18071359	SW8260C	18071359-05A	7/17/2018	ATR-MW38(20)-G071718	Bromomethane	1 U		1 UJ		CCV%D	UG/L
18071359	SW8260C	18071359-05A	7/17/2018	ATR-MW38(20)-G071718	Chloromethane	1 U		1 UJ		CCV%D	UG/L
18071359	SW8260C	18071359-07A	7/17/2018	ATR-MW38(29.1)-G071718	Bromomethane	1 U		1 UJ		CCV%D	UG/L
18071359	SW8260C	18071359-07A	7/17/2018	ATR-MW38(29.1)-G071718	Chloromethane	1 U		1 UJ		CCV%D	UG/L
18071359	SW8260C	18071359-06A	7/17/2018	ATR-MW38(69.9)-G071718	Bromomethane	1 U		1 UJ		CCV%D	UG/L
18071359	SW8260C	18071359-06A	7/17/2018	ATR-MW38(69.9)-G071718	Chloromethane	1 U		1 UJ		CCV%D	UG/L
18071359	SW8260C	18071359-10A	7/17/2018	ATR-MW39(13)-G071718	Bromomethane	1 U		1 UJ		CCV%D	UG/L
18071359	SW8260C	18071359-10A	7/17/2018	ATR-MW39(13)-G071718	Chloromethane	1 U		1 UJ		CCV%D	UG/L
18071359	SW8260C	18071359-11A	7/17/2018	ATR-MW39(29.3)-G071718	Bromomethane	1 U		1 UJ		CCV%D	UG/L
18071359	SW8260C	18071359-11A	7/17/2018	ATR-MW39(29.3)-G071718	Chloromethane	1 U		1 UJ		CCV%D	UG/L
18071359	SW8260C	18071359-12A	7/17/2018	ATR-MW39(76.8)-G071718	Bromomethane	1 U		1 UJ		CCV%D	UG/L
18071359	SW8260C	18071359-12A	7/17/2018	ATR-MW39(76.8)-G071718	Chloromethane	1 U		1 UJ		CCV%D	UG/L
18071359	SW8260C	18071359-20A	7/18/2018	ATR-MW45(185)-G071818	Bromomethane	1 U		1 UJ		CCV%D	UG/L
18071359	SW8260C	18071359-37A	7/19/2018	ATR-MW50(45)-G071819	Bromomethane	1 U		1 UJ		CCV%D	UG/L
18071359	SW8260C	18071359-38A	7/19/2018	ATR-MW50(80)-G071918	Bromomethane	1 U		1 UJ		CCV%D	UG/L
18071359	SW8260C	18071359-42A	7/19/2018	ATR-MW51(25)-G071918	Bromomethane	1 U		1 UJ		CCV%D	UG/L
18071359	SW8260C	18071359-43A	7/19/2018	ATR-MW51(70)-G071918	Bromomethane	1 U		1 UJ		CCV%D	UG/L
18071359	SW8260C	18071359-28A	7/18/2018	ATR-MW52(148)-G071818	Bromomethane	1 U		1 UJ		CCV%D	UG/L
18071359	SW8260C	18071359-29A	7/18/2018	ATR-MW52(55)-G071818	Bromomethane	1 U		1 UJ		CCV%D	UG/L
18071359	SW8260C	18071359-30A	7/18/2018	ATR-MW53(41)-G071818	Bromomethane	1 U		1 UJ		CCV%D	UG/L
18071359	SW8260C	18071359-21A	7/18/2018	ATR-MW55(49)-G071818	Bromomethane	1 U		1 UJ		CCV%D	UG/L
18071359	SW8260C	18071359-22A	7/18/2018	ATR-MW56(51)-G071818	Bromomethane	1 U		1 UJ		CCV%D	UG/L
18071359	SW8260C	18071359-09A	7/17/2018	ATR-MW57(38)-G071718	Bromomethane	1 U		1 UJ		CCV%D	UG/L
18071359	SW8260C	18071359-09A	7/17/2018	ATR-MW57(38)-G071718	Chloromethane	1 U		1 UJ		CCV%D	UG/L

TABLE 3 - QUALIFICATION ACTIONS SUMMARY
DATA VALIDATION REPORT
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SDG	Analysis Method	Lab Sample Id	Sample Date	Field Sample Id	Param Name	Lab Result Text	Lab Qual	Final Result	Final Qual	Val Reason Code	Result Uom
18071359	SW8260C	18071359-01A	7/17/2018	ATR-MW85(130)-G071718	Bromomethane	1	U	1	UJ	CCV%D	UG/L
18071359	SW8260C	18071359-01A	7/17/2018	ATR-MW85(130)-G071718	Chloromethane	1	U	1	UJ	CCV%D	UG/L
18071359	SW8260C	18071359-02A	7/17/2018	ATR-MW85(39)-G071718	Bromomethane	1	U	1	UJ	CCV%D	UG/L
18071359	SW8260C	18071359-02A	7/17/2018	ATR-MW85(39)-G071718	Chloromethane	1	U	1	UJ	CCV%D	UG/L
18071359	SW8260C	18071359-47A	7/19/2018	ATR-MW9B-G071918	Bromomethane	1	U	1	UJ	CCV%D	UG/L
18071359	SW8260C	18071359-44A	7/19/2018	ATR-MW9C-G071918	Bromomethane	1	U	1	UJ	CCV%D	UG/L
18071359	SW8260C	18071359-52A	7/19/2018	ATR-OW6(38)-G071918	Bromomethane	1	U	1	UJ	CCV%D	UG/L
18071359	SW8260C	18071359-51A	7/19/2018	ATR-OW6(63)-G071918	2-Butanone	200		200	J	MS-L	UG/L
18071359	SW8260C	18071359-51A	7/19/2018	ATR-OW6(63)-G071918	Acetone	15		15	J	MS-H, MS-RPD	UG/L
18071359	SW8260C	18071359-51A	7/19/2018	ATR-OW6(63)-G071918	Bromomethane	1	U	1	UJ	CCV%D	UG/L
18071359	SW8260C	18071359-51A	7/19/2018	ATR-OW6(63)-G071918	Chloroethane	1	U	1	UJ	MS-L	UG/L
18071390	SW8260C	18071390-01A	7/19/2018	ATR-MW16-G071918	1,1,1-Trichloroethane	1	U	1	UJ	CCV%D	UG/L
18071390	SW8260C	18071390-01A	7/19/2018	ATR-MW16-G071918	Bromomethane	1	U	1	UJ	CCV%D	UG/L
18071390	SW8260C	18071390-01A	7/19/2018	ATR-MW16-G071918	Carbon disulfide	1	U	1	UJ	CCV%D	UG/L
18071390	SW8260C	18071390-01A	7/19/2018	ATR-MW16-G071918	Carbon tetrachloride	1	U	1	UJ	CCV%D	UG/L
18071390	SW8260C	18071390-01A	7/19/2018	ATR-MW16-G071918	Chloroethane	1	U	1	UJ	CCV%D	UG/L
18071390	SW8260C	18071390-01A	7/19/2018	ATR-MW16-G071918	Chloromethane	1	U	1	UJ	CCV%D	UG/L
18071390	SW8260C	18071390-01A	7/19/2018	ATR-MW16-G071918	Cis-1,3-Dichloropropene	1	U	1	UJ	CCV%D	UG/L
18071390	SW8260C	18071390-03A	7/19/2018	ATR-MW17-G071918	1,1,1-Trichloroethane	1	U	1	UJ	CCV%D	UG/L
18071390	SW8260C	18071390-03A	7/19/2018	ATR-MW17-G071918	Bromomethane	1	U	1	UJ	CCV%D	UG/L
18071390	SW8260C	18071390-03A	7/19/2018	ATR-MW17-G071918	Carbon tetrachloride	1	U	1	UJ	CCV%D	UG/L
18071390	SW8260C	18071390-03A	7/19/2018	ATR-MW17-G071918	Cis-1,3-Dichloropropene	1	U	1	UJ	CCV%D	UG/L
18071390	SW8260C	18071390-02A	7/19/2018	ATR-MW17-G071918-R	1,1,1-Trichloroethane	1	U	1	UJ	CCV%D	UG/L
18071390	SW8260C	18071390-02A	7/19/2018	ATR-MW17-G071918-R	Bromomethane	1	U	1	UJ	CCV%D	UG/L
18071390	SW8260C	18071390-02A	7/19/2018	ATR-MW17-G071918-R	Carbon tetrachloride	1	U	1	UJ	CCV%D	UG/L
18071390	SW8260C	18071390-02A	7/19/2018	ATR-MW17-G071918-R	Cis-1,3-Dichloropropene	1	U	1	UJ	CCV%D	UG/L
18071390	SW8260C	18071390-06A	7/20/2018	ATR-MW26(17.5)-G072018	1,1,1-Trichloroethane	1	U	1	UJ	CCV%D	UG/L
18071390	SW8260C	18071390-06A	7/20/2018	ATR-MW26(17.5)-G072018	Bromomethane	1	U	1	UJ	CCV%D	UG/L
18071390	SW8260C	18071390-06A	7/20/2018	ATR-MW26(17.5)-G072018	Carbon tetrachloride	1	U	1	UJ	CCV%D	UG/L

TABLE 3 - QUALIFICATION ACTIONS SUMMARY
DATA VALIDATION REPORT
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SDG	Analysis Method	Lab Sample Id	Sample Date	Field Sample Id	Param Name	Lab Result Text	Lab Qual	Final Result	Final Qual	Val Reason Code	Result Uom
18071390	SW8260C	18071390-06A	7/20/2018	ATR-MW26(17.5)-G072018	Cis-1,3-Dichloropropene	1 U		1 UJ		CCV%D	UG/L
18071390	SW8260C	18071390-07A	7/20/2018	ATR-MW26(28.8)-G072018	1,1,1-Trichloroethane	1 U		1 UJ		CCV%D	UG/L
18071390	SW8260C	18071390-07A	7/20/2018	ATR-MW26(28.8)-G072018	Bromomethane	1 U		1 UJ		CCV%D	UG/L
18071390	SW8260C	18071390-07A	7/20/2018	ATR-MW26(28.8)-G072018	Carbon tetrachloride	1 U		1 UJ		CCV%D	UG/L
18071390	SW8260C	18071390-07A	7/20/2018	ATR-MW26(28.8)-G072018	Cis-1,3-Dichloropropene	1 U		1 UJ		CCV%D	UG/L
18071390	SW8260C	18071390-08A	7/20/2018	ATR-MW26(58.2)-G072018	1,1,1-Trichloroethane	1 U		1 UJ		CCV%D	UG/L
18071390	SW8260C	18071390-08A	7/20/2018	ATR-MW26(58.2)-G072018	Bromomethane	1 U		1 UJ		CCV%D	UG/L
18071390	SW8260C	18071390-08A	7/20/2018	ATR-MW26(58.2)-G072018	Carbon tetrachloride	1 U		1 UJ		CCV%D	UG/L
18071390	SW8260C	18071390-08A	7/20/2018	ATR-MW26(58.2)-G072018	Cis-1,3-Dichloropropene	1 U		1 UJ		CCV%D	UG/L
18071390	SW8260C	18071390-05A	7/19/2018	ATR-ZVI-2(17.5)-G071918	1,1,1-Trichloroethane	1 U		1 UJ		CCV%D	UG/L
18071390	SW8260C	18071390-05A	7/19/2018	ATR-ZVI-2(17.5)-G071918	Bromomethane	1 U		1 UJ		CCV%D	UG/L
18071390	SW8260C	18071390-05A	7/19/2018	ATR-ZVI-2(17.5)-G071918	Carbon disulfide	1 U		1 UJ		CCV%D	UG/L
18071390	SW8260C	18071390-05A	7/19/2018	ATR-ZVI-2(17.5)-G071918	Carbon tetrachloride	1 U		1 UJ		CCV%D	UG/L
18071390	SW8260C	18071390-05A	7/19/2018	ATR-ZVI-2(17.5)-G071918	Chloroethane	1 U		1 UJ		CCV%D	UG/L
18071390	SW8260C	18071390-05A	7/19/2018	ATR-ZVI-2(17.5)-G071918	Chloromethane	1 U		1 UJ		CCV%D	UG/L
18071390	SW8260C	18071390-05A	7/19/2018	ATR-ZVI-2(17.5)-G071918	Cis-1,3-Dichloropropene	1 U		1 UJ		CCV%D	UG/L
18071390	SW8260C	18071390-04A	7/19/2018	ATR-ZVI-2(32.5)-G071918	1,1,1-Trichloroethane	1 U		1 UJ		CCV%D	UG/L
18071390	SW8260C	18071390-04A	7/19/2018	ATR-ZVI-2(32.5)-G071918	Bromomethane	1 U		1 UJ		CCV%D	UG/L
18071390	SW8260C	18071390-04A	7/19/2018	ATR-ZVI-2(32.5)-G071918	Carbon disulfide	1 U		1 UJ		CCV%D	UG/L
18071390	SW8260C	18071390-04A	7/19/2018	ATR-ZVI-2(32.5)-G071918	Carbon tetrachloride	1 U		1 UJ		CCV%D	UG/L
18071390	SW8260C	18071390-04A	7/19/2018	ATR-ZVI-2(32.5)-G071918	Chloroethane	1 U		1 UJ		CCV%D	UG/L
18071390	SW8260C	18071390-04A	7/19/2018	ATR-ZVI-2(32.5)-G071918	Chloromethane	1 U		1 UJ		CCV%D	UG/L
18071390	SW8260C	18071390-04A	7/19/2018	ATR-ZVI-2(32.5)-G071918	Cis-1,3-Dichloropropene	1 U		1 UJ		CCV%D	UG/L
18071884	SW8260C	18071884-41A	7/26/2018	ATR-MW12-G072618	Bromomethane	1 U		1 UJ		CCV%D	UG/L
18071884	SW8260C	18071884-41A	7/26/2018	ATR-MW12-G072618	Chloroethane	1 U		1 UJ		CCV%D	UG/L
18071884	SW8260C	18071884-42A	7/26/2018	ATR-MW13-G072618	Bromomethane	1 U		1 UJ		CCV%D	UG/L
18071884	SW8260C	18071884-42A	7/26/2018	ATR-MW13-G072618	Chloroethane	1 U		1 UJ		CCV%D	UG/L
18071884	SW8260C	18071884-24A	7/24/2018	ATR-MW14-G072418	Bromomethane	1 U		1 UJ		CCV%D	UG/L
18071884	SW8260C	18071884-24A	7/24/2018	ATR-MW14-G072418	Chloroethane	1 U		1 UJ		CCV%D	UG/L

TABLE 3 - QUALIFICATION ACTIONS SUMMARY
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SDG	Analysis Method	Lab Sample Id	Sample Date	Field Sample Id	Param Name	Lab Result Text	Lab Qual	Final Result	Final Qual	Val Reason Code	Result Uom
18071884	SW8260C	18071884-03A	7/23/2018	ATR-MW15-G072318	Bromomethane	1	U	1	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-03A	7/23/2018	ATR-MW15-G072318	Chloroethane	1	U	1	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-30A	7/24/2018	ATR-MW20(35)-G072418	Bromomethane	1	U	1	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-30A	7/24/2018	ATR-MW20(35)-G072418	Chloroethane	1	U	1	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-31A	7/24/2018	ATR-MW20(51)-G072418	Bromomethane	1	U	1	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-31A	7/24/2018	ATR-MW20(51)-G072418	Chloroethane	1	U	1	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-10A	7/23/2018	ATR-MW24(24.9)-G072318	Bromomethane	1	U	1	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-08A	7/23/2018	ATR-MW24(55.4)-G072318	Bromomethane	1	U	1	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-08A	7/23/2018	ATR-MW24(55.4)-G072318	Chloroethane	1	U	1	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-09A	7/23/2018	ATR-MW24(55.4)-G072318-R	Bromomethane	1	U	1	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-09A	7/23/2018	ATR-MW24(55.4)-G072318-R	Chloroethane	1	U	1	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-01A	7/23/2018	ATR-MW25(16.4)-G072318	Bromomethane	1	U	1	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-02A	7/23/2018	ATR-MW25(32.6)-G072318	Bromomethane	1	U	1	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-23A	7/24/2018	ATR-MW25(45.2)-G072418	Bromomethane	1	U	1	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-23A	7/24/2018	ATR-MW25(45.2)-G072418	Chloroethane	1	U	1	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-14A	7/24/2018	ATR-MW59(29)-G072418	Bromomethane	1	U	1	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-15A	7/24/2018	ATR-MW59(29)-G072418-R	Bromomethane	1	U	1	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-27A	7/24/2018	ATR-MW62(36)-G072418	Bromomethane	1	U	1	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-27A	7/24/2018	ATR-MW62(36)-G072418	Chloroethane	1	U	1	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-34A	7/25/2018	ATR-MW67(30)-G072518	Bromomethane	1	U	1	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-34A	7/25/2018	ATR-MW67(30)-G072518	Chloroethane	1	U	1	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-35A	7/25/2018	ATR-MW68(32)-G072518	2-Butanone	53		53	J	MS-L	UG/L
18071884	SW8260C	18071884-35A	7/25/2018	ATR-MW68(32)-G072518	Bromomethane	5	U	5	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-35A	7/25/2018	ATR-MW68(32)-G072518	Chloroethane	5	U	5	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-35A	7/25/2018	ATR-MW68(32)-G072518	Chloromethane	5	U	5	UJ	MS-L	UG/L
18071884	SW8260C	18071884-35A	7/25/2018	ATR-MW68(32)-G072518	Cis-1,2-Dichloroethene	240		240	J	MS-H	UG/L
18071884	SW8260C	18071884-44A	7/26/2018	ATR-MW6C-G072618	Bromomethane	1	U	1	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-44A	7/26/2018	ATR-MW6C-G072618	Chloroethane	1	U	1	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-33A	7/25/2018	ATR-MW71(33)-G072518	Bromomethane	10	U	10	UJ	CCV%D	UG/L

TABLE 3 - QUALIFICATION ACTIONS SUMMARY
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SDG	Analysis Method	Lab Sample Id	Sample Date	Field Sample Id	Param Name	Lab Result Text	Lab Qual	Final Result	Final Qual	Val Reason Code	Result Uom
18071884	SW8260C	18071884-33A	7/25/2018	ATR-MW71(33)-G072518	Chloroethane	10	U	10	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-33A	7/25/2018	ATR-MW71(33)-G072518	Chloromethane	10	U	10	UJ	LCS-L	UG/L
18071884	SW8260C	18071884-32A	7/25/2018	ATR-MW72(32)-G072518	Bromomethane	1	U	1	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-32A	7/25/2018	ATR-MW72(32)-G072518	Chloroethane	1	U	1	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-32A	7/25/2018	ATR-MW72(32)-G072518	Chloromethane	1	U	1	UJ	LCS-L	UG/L
18071884	SW8260C	18071884-39A	7/25/2018	ATR-MW76(30)-G072518	Bromomethane	5	U	5	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-39A	7/25/2018	ATR-MW76(30)-G072518	Chloroethane	5	U	5	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-40A	7/25/2018	ATR-MW76(30)-G072518-R	Bromomethane	5	U	5	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-40A	7/25/2018	ATR-MW76(30)-G072518-R	Chloroethane	5	U	5	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-36A	7/25/2018	ATR-MW77(41)-G072518	Bromomethane	1	U	1	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-36A	7/25/2018	ATR-MW77(41)-G072518	Chloroethane	1	U	1	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-37A	7/25/2018	ATR-MW78(35)-G072518	Bromomethane	1	U	1	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-37A	7/25/2018	ATR-MW78(35)-G072518	Chloroethane	1	U	1	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-16A	7/24/2018	ATR-MW81(27)-G072418	Bromomethane	1	U	1	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-16A	7/24/2018	ATR-MW81(27)-G072418	Chloroethane	1	U	1	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-16A	7/24/2018	ATR-MW81(27)-G072418	Chloromethane	1	U	1	UJ	MS-L	UG/L
18071884	SW8260C	18071884-16A	7/24/2018	ATR-MW81(27)-G072418	Cis-1,2-Dichloroethene	460		460	J	MS-H	UG/L
18071884	SW8260C	18071884-22A	7/24/2018	ATR-MW82(58)-G072418	Bromomethane	1	U	1	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-22A	7/24/2018	ATR-MW82(58)-G072418	Chloroethane	1	U	1	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-18A	7/24/2018	ATR-OW1(28)-G072418	Bromomethane	1	U	1	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-20A	7/24/2018	ATR-OW1(39)-G072418	Bromomethane	1	U	1	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-12A	7/23/2018	ATR-OW2(33)-G072318	Bromomethane	1	U	1	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-11A	7/23/2018	ATR-OW2(55)-G072318	Bromomethane	1	U	1	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-11A	7/23/2018	ATR-OW2(55)-G072318	Chloroethane	1	U	1	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-28A	7/24/2018	ATR-OW3(35)-G072418	Bromomethane	1	U	1	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-28A	7/24/2018	ATR-OW3(35)-G072418	Chloroethane	1	U	1	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-29A	7/24/2018	ATR-OW3(55)-G072418	Bromomethane	1	U	1	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-29A	7/24/2018	ATR-OW3(55)-G072418	Chloroethane	1	U	1	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-13A	7/23/2018	ATR-OW4(35)-G072318	Bromomethane	1	U	1	UJ	CCV%D	UG/L

TABLE 3 - QUALIFICATION ACTIONS SUMMARY
 DATA VALIDATION REPORT
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 TEXTRON FORMER TORX FACILITY
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SDG	Analysis Method	Lab Sample Id	Sample Date	Field Sample Id	Param Name	Lab Result Text	Lab Qual	Final Result	Final Qual	Val Reason Code	Result Uom
18071884	SW8260C	18071884-13A	7/23/2018	ATR-OW4(35)-G072318	Chloroethane	1	U	1	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-21A	7/24/2018	ATR-OW4(54)-G072418	Bromomethane	1	U	1	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-21A	7/24/2018	ATR-OW4(54)-G072418	Chloroethane	1	U	1	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-07A	7/23/2018	ATR-OW5(16)-G072318	Bromomethane	1	U	1	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-06A	7/23/2018	ATR-OW5(35)-G072318	Bromomethane	1	U	1	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-05A	7/23/2018	ATR-OW5(44)-G072318	Bromomethane	1	U	1	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-05A	7/23/2018	ATR-OW5(44)-G072318	Chloroethane	1	U	1	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-25A	7/24/2018	ATR-PM-3-G072418	Bromomethane	50	U	50	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-25A	7/24/2018	ATR-PM-3-G072418	Chloroethane	50	U	50	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-25A	7/24/2018	ATR-PM-3-G072418	Chloromethane	50	U	50	UJ	LCS-L	UG/L
18071884	SW8260C	18071884-26A	7/24/2018	ATR-PM-3-G072418-R	Bromomethane	50	U	50	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-26A	7/24/2018	ATR-PM-3-G072418-R	Chloroethane	50	U	50	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-26A	7/24/2018	ATR-PM-3-G072418-R	Chloromethane	50	U	50	UJ	LCS-L	UG/L
18071884	SW8260C	18071884-17A	7/24/2018	ATR-PM2-G072418	Bromomethane	1	U	1	UJ	CCV%D	UG/L
18071884	SW8260C	18071884-17A	7/24/2018	ATR-PM2-G072418	Chloroethane	1	U	1	UJ	CCV%D	UG/L
18071908	SW8260C	18071908-11A	7/26/2018	ATR-MW11-G072618	Trichloroethene	2.4		2.4	J	MS-H	UG/L

U = not detected, value is the detection limit

J = value is estimated

UG/L = microgram per liter

CCV%D = continuing calibration percent difference exceeds QC limit

MS-L = matrix spike recovery low

MS-H = matrix spike recovery high

MS-RPD - matrix spike RPD limit exceeded

LCS-L = LCS recovery low

TABLE 4 - FINAL RESULTS SUMMARY
DATA VALIDATION REPORT
JULY 2018 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

		SDG:	18071359	18071359	18071359	18071359	18071359					
		Location:	MW-1	MW-19(53)	MW-27(104.2)	MW-27(18)	MW-27(18)					
		Date Collected:	07/17/18	07/19/18	07/20/18	07/20/18	07/20/18					
		Field Sample ID:	ATR-MW1-G071718-1135	ATR-MW19(53)-G071918	ATR-MW27(104.2)-G072018	ATR-MW27(18)-G072018	ATR-MW27(18)-G072018-R					
		Type:	FS	FS	FS	FS	FD					
Method	Unit	Parameter	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual
SW8260C	UG/L	1,1,1-Trichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2-Trichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloropropane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	2-Butanone	5	U	5	U	5	U	5	U	5	U
SW8260C	UG/L	2-Hexanone	5	U	5	U	5	U	5	U	5	U
SW8260C	UG/L	4-Methyl-2-pentanone	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Acetone	10	U	10	U	10	U	10	U	10	U
SW8260C	UG/L	Benzene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromodichloromethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromoform	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromomethane	1	UJ	1	UJ	1	U	1	U	1	U
SW8260C	UG/L	Carbon disulfide	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon tetrachloride	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chlorobenzene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroform	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloromethane	1	UJ	1	U	1	U	1	U	1	U
SW8260C	UG/L	Cis-1,2-Dichloroethene	1	U	17		1	U	1	U	1	U
SW8260C	UG/L	Cis-1,3-Dichloropropene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Dibromochloromethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Ethylbenzene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Methylene chloride	5	U	5	U	5	U	5	U	5	U
SW8260C	UG/L	Styrene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Tetrachloroethene	1	U	1	U	1	U	1	U	1	U

TABLE 4 - FINAL RESULTS SUMMARY
 DATA VALIDATION REPORT
 JULY 2018 GROUNDWATER SAMPLING
 TEXTRON FORMER TORX FACILITY
 ROCHESTER, INDIANA

		SDG:	18071359	18071359	18071359	18071359	18071359					
		Location:	MW-1	MW-19(53)	MW-27(104.2)	MW-27(18)	MW-27(18)					
		Date Collected:	07/17/18	07/19/18	07/20/18	07/20/18	07/20/18					
		Field Sample ID:	ATR-MW1-G071718-1135	ATR-MW19(53)-G071918	ATR-MW27(104.2)-G072018	ATR-MW27(18)-G072018	ATR-MW27(18)-G072018-R					
		Type:	FS	FS	FS	FS	FD					
Method	Unit	Parameter	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual
SW8260C	UG/L	Toluene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,2-Dichloroethene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,3-Dichloropropene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Trichloroethene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Vinyl chloride	1	U	18		2.2		1	U	1	U
SW8260C	UG/L	Xylene, o	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylenes (m&p)	2	U	2	U	2	U	2	U	2	U
SW8260C	UG/L	Xylenes, Total	3	U	3	U	3	U	3	U	3	U
SW9060A	MG/L	Total Organic Carbon										

U = not detected, value is the detection limit

J = value is estimated

UG/L = microgram per liter

FS = Field Sample

FD = Field Duplicate

TB = Trip Blank

TABLE 4 - FINAL RESULTS SUMMARY
 DATA VALIDATION REPORT
 JULY 2018 GROUNDWATER SAMPLING
 TEXTRON FORMER TORX FACILITY
 ROCHESTER, INDIANA

SDG:	18071359	18071359	18071359	18071359	18071359
Location:	MW-27(53.05)	MW-27(75.4)	MW-29(103.3)	MW-29(132.8)	MW-29(82.5)
Date Collected:	07/20/18	07/20/18	07/18/18	07/18/18	07/18/18
Field Sample ID:	ATR-MW27(53.05)-G072018	ATR-MW27(75.4)G072018	ATR-MW29(103.3)G071818	ATR-MW29(132.8)-G071818	ATR-MW29(82.5)G071818

Method	Unit	Parameter	Type: FS		FS		FS		FS		FS	
			Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual
SW8260C	UG/L	1,1,1-Trichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2-Trichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloropropane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	2-Butanone	5	U	5	U	5	U	5	U	5	U
SW8260C	UG/L	2-Hexanone	5	U	5	U	5	U	5	U	5	U
SW8260C	UG/L	4-Methyl-2-pentanone	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Acetone	10	U	10	U	10	U	10	U	10	U
SW8260C	UG/L	Benzene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromodichloromethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromoform	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromomethane	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
SW8260C	UG/L	Carbon disulfide	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon tetrachloride	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chlorobenzene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroform	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloromethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Cis-1,2-Dichloroethene	1	U	12		1	U	1	U	1	U
SW8260C	UG/L	Cis-1,3-Dichloropropene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Dibromochloromethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Ethylbenzene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Methylene chloride	5	U	5	U	5	U	5	U	5	U
SW8260C	UG/L	Styrene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Tetrachloroethene	1	U	1	U	1	U	1	U	1	U

TABLE 4 - FINAL RESULTS SUMMARY
 DATA VALIDATION REPORT
 JULY 2018 GROUNDWATER SAMPLING
 TEXTRON FORMER TORX FACILITY
 ROCHESTER, INDIANA

		SDG: 18071359		18071359		18071359		18071359		18071359		
		Location: MW-27(53.05)		MW-27(75.4)		MW-29(103.3)		MW-29(132.8)		MW-29(82.5)		
		Date Collected: 07/20/18		07/20/18		07/18/18		07/18/18		07/18/18		
		Field Sample ID: ATR-MW27(53.05)-G072018		ATR-MW27(75.4)G072018		ATR-MW29(103.3)G071818		ATR-MW29(132.8)-G071818		ATR-MW29(82.5)G071818		
		Type: FS		FS		FS		FS		FS		
Method	Unit	Parameter	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual
SW8260C	UG/L	Toluene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,2-Dichloroethene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,3-Dichloropropene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Trichloroethene	4.7		7.7		1	U	1	U	1	U
SW8260C	UG/L	Vinyl chloride	1	U	6.5		1	U	1	U	1	U
SW8260C	UG/L	Xylene, o	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylenes (m&p)	2	U	2	U	2	U	2	U	2	U
SW8260C	UG/L	Xylenes, Total	3	U	3	U	3	U	3	U	3	U
SW9060A	MG/L	Total Organic Carbon										

U = not detected, value is the detection limit

J = value is estimated

UG/L = microgram per liter

FS = Field Sample

FD = Field Duplicate

TB = Trip Blank

TABLE 4 - FINAL RESULTS SUMMARY
 DATA VALIDATION REPORT
 JULY 2018 GROUNDWATER SAMPLING
 TEXTRON FORMER TORX FACILITY
 ROCHESTER, INDIANA

SDG:	18071359	18071359	18071359	18071359	18071359
Location:	MW-3	MW-30(41.1)	MW-31(139.2)	MW-31(30.9)	MW-31(55.5)
Date Collected:	07/18/18	07/19/18	07/18/18	07/18/18	07/18/18
Field Sample ID:	ATR-MW3-G071818	ATR-MW30(41.1)-G071918	ATR-MW31(139.2)-G071818	ATR-MW31(30.9)-G071818	ATR-MW31(55.5)-G071818

Method	Unit	Parameter	Type: FS		FS		FS		FS		FS	
			Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual
SW8260C	UG/L	1,1,1-Trichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2-Trichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloropropane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	2-Butanone	5	U	5	U	5	U	5	U	5	U
SW8260C	UG/L	2-Hexanone	5	U	5	U	5	U	5	U	5	U
SW8260C	UG/L	4-Methyl-2-pentanone	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Acetone	10	U	10	U	10	U	10	U	10	U
SW8260C	UG/L	Benzene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromodichloromethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromoform	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromomethane	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
SW8260C	UG/L	Carbon disulfide	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon tetrachloride	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chlorobenzene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroform	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloromethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Cis-1,2-Dichloroethene	1	U	28		1	U	1	U	1	U
SW8260C	UG/L	Cis-1,3-Dichloropropene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Dibromochloromethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Ethylbenzene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Methylene chloride	5	U	5	U	5	U	5	U	5	U
SW8260C	UG/L	Styrene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Tetrachloroethene	1	U	1	U	1	U	1	U	1	U

TABLE 4 - FINAL RESULTS SUMMARY
 DATA VALIDATION REPORT
 JULY 2018 GROUNDWATER SAMPLING
 TEXTRON FORMER TORX FACILITY
 ROCHESTER, INDIANA

		SDG:	18071359	18071359	18071359	18071359	18071359					
		Location:	MW-3	MW-30(41.1)	MW-31(139.2)	MW-31(30.9)	MW-31(55.5)					
		Date Collected:	07/18/18	07/19/18	07/18/18	07/18/18	07/18/18					
		Field Sample ID:	ATR-MW3-G071818	ATR-MW30(41.1)-G071918	ATR-MW31(139.2)-G071818	ATR-MW31(30.9)-G071818	ATR-MW31(55.5)-G071818					
		Type:	FS	FS	FS	FS	FS					
Method	Unit	Parameter	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual
SW8260C	UG/L	Toluene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,2-Dichloroethene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,3-Dichloropropene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Trichloroethene	1	U	46		1	U	1	U	1	U
SW8260C	UG/L	Vinyl chloride	20		2.1		1	U	1	U	1	U
SW8260C	UG/L	Xylene, o	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylenes (m&p)	2	U	2	U	2	U	2	U	2	U
SW8260C	UG/L	Xylenes, Total	3	U	3	U	3	U	3	U	3	U
SW9060A	MG/L	Total Organic Carbon										

U = not detected, value is the detection limit

J = value is estimated

UG/L = microgram per liter

FS = Field Sample

FD = Field Duplicate

TB = Trip Blank

TABLE 4 - FINAL RESULTS SUMMARY
 DATA VALIDATION REPORT
 JULY 2018 GROUNDWATER SAMPLING
 TEXTRON FORMER TORX FACILITY
 ROCHESTER, INDIANA

SDG:	18071359	18071359	18071359	18071359	18071359
Location:	MW-31(98.5)	MW-31(98.5)	MW-32(110)	MW-32(24.1)	MW-32(89)
Date Collected:	07/18/18	07/18/18	07/19/18	07/19/18	07/19/18
Field Sample ID:	ATR-MW31(98.5)-G071818	ATR-MW31(98.5)-G071818-R	ATR-MW32(110)-G071918	ATR-MW32(24.1)-G071918	ATR-MW32(89)-G071918

	Type:	FS	FD	FS	FS	FS
		Final Result	Final Qual	Final Result	Final Qual	Final Result

Method	Unit	Parameter	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual
SW8260C	UG/L	1,1,1-Trichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2-Trichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloropropane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	2-Butanone	5	U	5	U	5	U	5	U	5	U
SW8260C	UG/L	2-Hexanone	5	U	5	U	5	U	5	U	5	U
SW8260C	UG/L	4-Methyl-2-pentanone	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Acetone	10	U	10	U	10	U	10	U	10	U
SW8260C	UG/L	Benzene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromodichloromethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromoform	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromomethane	1	UJ	1	UJ	1	UJ	1	UJ	1	U
SW8260C	UG/L	Carbon disulfide	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon tetrachloride	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chlorobenzene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroform	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloromethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Cis-1,2-Dichloroethene	1	U	1	U	1	U	1.3		1	U
SW8260C	UG/L	Cis-1,3-Dichloropropene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Dibromochloromethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Ethylbenzene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Methylene chloride	5	U	5	U	5	U	5	U	5	U
SW8260C	UG/L	Styrene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Tetrachloroethene	1	U	1	U	1	U	1	U	1	U

TABLE 4 - FINAL RESULTS SUMMARY
 DATA VALIDATION REPORT
 JULY 2018 GROUNDWATER SAMPLING
 TEXTRON FORMER TORX FACILITY
 ROCHESTER, INDIANA

SDG:	18071359	18071359	18071359	18071359	18071359
Location:	MW-31(98.5)	MW-31(98.5)	MW-32(110)	MW-32(24.1)	MW-32(89)
Date Collected:	07/18/18	07/18/18	07/19/18	07/19/18	07/19/18
Field Sample ID:	ATR-MW31(98.5)-G071818	ATR-MW31(98.5)-G071818-R	ATR-MW32(110)-G071918	ATR-MW32(24.1)-G071918	ATR-MW32(89)-G071918

			Type: FS		FD		FS		FS		FS	
Method	Unit	Parameter	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual
SW8260C	UG/L	Toluene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,2-Dichloroethene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,3-Dichloropropene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Trichloroethene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Vinyl chloride	2.2		2.2		1	U	1	U	10	
SW8260C	UG/L	Xylene, o	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylenes (m&p)	2	U	2	U	2	U	2	U	2	U
SW8260C	UG/L	Xylenes, Total	3	U	3	U	3	U	3	U	3	U
SW9060A	MG/L	Total Organic Carbon										

U = not detected, value is the detection limit

J = value is estimated

UG/L = microgram per liter

FS = Field Sample

FD = Field Duplicate

TB = Trip Blank

TABLE 4 - FINAL RESULTS SUMMARY
 DATA VALIDATION REPORT
 JULY 2018 GROUNDWATER SAMPLING
 TEXTRON FORMER TORX FACILITY
 ROCHESTER, INDIANA

SDG:	18071359	18071359	18071359	18071359	18071359
Location:	MW-34(110)	MW-34(37)	MW-34(85)	MW-35(148)	MW-35(45)
Date Collected:	07/19/18	07/19/18	07/19/18	07/18/18	07/18/18
Field Sample ID:	ATR-MW34(110)-G071918	ATR-MW34(37)-G071918	ATR-MW34(85)-G071918	ATR-MW35(148)-G071818	ATR-MW35(45)-G071818

Type:	FS	FS	FS	FS	FS							
Method	Unit	Parameter	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual

SW8260C	UG/L	1,1,1-Trichloroethane	1 U	U	1 U	U	1 U	U	1 U	U	1 U	U
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	1 U	U	1 U	U	1 U	U	1 U	U	1 U	U
SW8260C	UG/L	1,1,2-Trichloroethane	1 U	U	1 U	U	1 U	U	1 U	U	1 U	U
SW8260C	UG/L	1,1-Dichloroethane	1 U	U	1 U	U	1 U	U	1 U	U	1 U	U
SW8260C	UG/L	1,1-Dichloroethene	1 U	U	1 U	U	1 U	U	1 U	U	1 U	U
SW8260C	UG/L	1,2-Dichloroethane	1 U	U	1 U	U	1 U	U	1 U	U	1 U	U
SW8260C	UG/L	1,2-Dichloropropane	1 U	U	1 U	U	1 U	U	1 U	U	1 U	U
SW8260C	UG/L	2-Butanone	5 U	U	5 U	U	5 U	U	5 U	U	5 U	U
SW8260C	UG/L	2-Hexanone	5 U	U	5 U	U	5 U	U	5 U	U	5 U	U
SW8260C	UG/L	4-Methyl-2-pentanone	1 U	U	1 U	U	1 U	U	1 U	U	1 U	U
SW8260C	UG/L	Acetone	10 U	U	10 U	U	10 U	U	10 U	U	10 U	U
SW8260C	UG/L	Benzene	1 U	U	1 U	U	1 U	U	1 U	U	1 U	U
SW8260C	UG/L	Bromodichloromethane	1 U	U	1 U	U	1 U	U	1 U	U	1 U	U
SW8260C	UG/L	Bromoform	1 U	U	1 U	U	1 U	U	1 U	U	1 U	U
SW8260C	UG/L	Bromomethane	1 U	U	1 UJ	U	1 U	U	1 UJ	U	1 UJ	U
SW8260C	UG/L	Carbon disulfide	1 U	U	1 U	U	1 U	U	1 U	U	1 U	U
SW8260C	UG/L	Carbon tetrachloride	1 U	U	1 U	U	1 U	U	1 U	U	1 U	U
SW8260C	UG/L	Chlorobenzene	1 U	U	1 U	U	1 U	U	1 U	U	1 U	U
SW8260C	UG/L	Chloroethane	1 U	U	1 U	U	1 U	U	1 U	U	1 U	U
SW8260C	UG/L	Chloroform	1 U	U	1 U	U	1 U	U	1 U	U	1 U	U
SW8260C	UG/L	Chloromethane	1 U	U	1 U	U	1 U	U	1 UJ	U	1 UJ	U
SW8260C	UG/L	Cis-1,2-Dichloroethene	6.6	U	1 U	U	1 U	U	1 U	U	1 U	U
SW8260C	UG/L	Cis-1,3-Dichloropropene	1 U	U	1 U	U	1 U	U	1 U	U	1 U	U
SW8260C	UG/L	Dibromochloromethane	1 U	U	1 U	U	1 U	U	1 U	U	1 U	U
SW8260C	UG/L	Ethylbenzene	1 U	U	1 U	U	1 U	U	1 U	U	1 U	U
SW8260C	UG/L	Methylene chloride	5 U	U	5 U	U	5 U	U	5 U	U	5 U	U
SW8260C	UG/L	Styrene	1 U	U	1 U	U	1 U	U	1 U	U	1 U	U
SW8260C	UG/L	Tetrachloroethene	1 U	U	1 U	U	1 U	U	1 U	U	1 U	U

TABLE 4 - FINAL RESULTS SUMMARY
 DATA VALIDATION REPORT
 JULY 2018 GROUNDWATER SAMPLING
 TEXTRON FORMER TORX FACILITY
 ROCHESTER, INDIANA

SDG:	18071359	18071359	18071359	18071359	18071359
Location:	MW-34(110)	MW-34(37)	MW-34(85)	MW-35(148)	MW-35(45)
Date Collected:	07/19/18	07/19/18	07/19/18	07/18/18	07/18/18
Field Sample ID:	ATR-MW34(110)-G071918	ATR-MW34(37)-G071918	ATR-MW34(85)-G071918	ATR-MW35(148)-G071818	ATR-MW35(45)-G071818

Method	Unit	Parameter	Type: FS		FS		FS		FS		FS	
			Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual
SW8260C	UG/L	Toluene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,2-Dichloroethene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,3-Dichloropropene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Trichloroethene	1	U	1	U	20		1	U	1	U
SW8260C	UG/L	Vinyl chloride	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylene, o	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylenes (m&p)	2	U	2	U	2	U	2	U	2	U
SW8260C	UG/L	Xylenes, Total	3	U	3	U	3	U	3	U	3	U
SW9060A	MG/L	Total Organic Carbon										

U = not detected, value is the detection limit

J = value is estimated

UG/L = microgram per liter

FS = Field Sample

FD = Field Duplicate

TB = Trip Blank

TABLE 4 - FINAL RESULTS SUMMARY
DATA VALIDATION REPORT
JULY 2018 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

SDG:	18071359	18071359	18071359	18071359	18071359
Location:	MW-35(90)	MW-36(124.5)	MW-36(35.2)	MW-36(92.4)	MW-37(23.3)
Date Collected:	07/18/18	07/17/18	07/17/18	07/18/18	07/17/18
Field Sample ID:	ATR-MW35(90)-G071818	ATR-MW36(124.5)G071718	ATR-MW36(35.2)-G071718	ATR-MW36(92.4)G071818	ATR-MW37(23)G071718

	Type:	FS	FS	FS	FS	FS
		Final Result	Final Qual	Final Result	Final Qual	Final Result

Method	Unit	Parameter	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual
SW8260C	UG/L	1,1,1-Trichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2-Trichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloropropane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	2-Butanone	5	U	5	U	5	U	5	U	5	U
SW8260C	UG/L	2-Hexanone	5	U	5	U	5	U	5	U	5	U
SW8260C	UG/L	4-Methyl-2-pentanone	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Acetone	10	U	10	U	10	U	10	U	10	U
SW8260C	UG/L	Benzene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromodichloromethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromoform	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromomethane	1	UJ	1	UJ	1	UJ	1	UJ	1	U
SW8260C	UG/L	Carbon disulfide	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon tetrachloride	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chlorobenzene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroform	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloromethane	1	U	1	UJ	1	UJ	1	U	1	U
SW8260C	UG/L	Cis-1,2-Dichloroethene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Cis-1,3-Dichloropropene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Dibromochloromethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Ethylbenzene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Methylene chloride	5	U	5	U	5	U	5	U	5	U
SW8260C	UG/L	Styrene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Tetrachloroethene	1	U	1	U	1	U	1	U	1	U

TABLE 4 - FINAL RESULTS SUMMARY
 DATA VALIDATION REPORT
 JULY 2018 GROUNDWATER SAMPLING
 TEXTRON FORMER TORX FACILITY
 ROCHESTER, INDIANA

SDG:	18071359	18071359	18071359	18071359	18071359
Location:	MW-35(90)	MW-36(124.5)	MW-36(35.2)	MW-36(92.4)	MW-37(23.3)
Date Collected:	07/18/18	07/17/18	07/17/18	07/18/18	07/17/18
Field Sample ID:	ATR-MW35(90)-G071818	ATR-MW36(124.5)G071718	ATR-MW36(35.2)-G071718	ATR-MW36(92.4)G071818	ATR-MW37(23)G071718
Type:	FS	FS	FS	FS	FS

Method	Unit	Parameter	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual
SW8260C	UG/L	Toluene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,2-Dichloroethene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,3-Dichloropropene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Trichloroethene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Vinyl chloride	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylene, o	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylenes (m&p)	2	U	2	U	2	U	2	U	2	U
SW8260C	UG/L	Xylenes, Total	3	U	3	U	3	U	3	U	3	U
SW9060A	MG/L	Total Organic Carbon										

U = not detected, value is the detection limit

J = value is estimated

UG/L = microgram per liter

FS = Field Sample

FD = Field Duplicate

TB = Trip Blank

TABLE 4 - FINAL RESULTS SUMMARY
DATA VALIDATION REPORT
JULY 2018 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

SDG:	18071359	18071359	18071359	18071359	18071359
Location:	MW-37(70)	MW-37(98)	MW-38(102.5)	MW-38(20.8)	MW-38(29.1)
Date Collected:	07/17/18	07/17/18	07/17/18	07/17/18	07/17/18
Field Sample ID:	ATR-MW37(70)-G071718	ATR-MW37(98)-G071718	ATR-MW38(102)-G071718	ATR-MW38(20)-G071718	ATR-MW38(29.1)-G071718

Method	Unit	Parameter	Type: FS		FS		FS		FS		FS	
			Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual
SW8260C	UG/L	1,1,1-Trichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2-Trichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloropropane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	2-Butanone	5	U	5	U	5	U	5	U	5	U
SW8260C	UG/L	2-Hexanone	5	U	5	U	5	U	5	U	5	U
SW8260C	UG/L	4-Methyl-2-pentanone	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Acetone	10	U	10	U	10	U	10	U	10	U
SW8260C	UG/L	Benzene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromodichloromethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromoform	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromomethane	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
SW8260C	UG/L	Carbon disulfide	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon tetrachloride	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chlorobenzene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroform	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloromethane	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
SW8260C	UG/L	Cis-1,2-Dichloroethene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Cis-1,3-Dichloropropene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Dibromochloromethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Ethylbenzene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Methylene chloride	5	U	5	U	5	U	5	U	5	U
SW8260C	UG/L	Styrene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Tetrachloroethene	1	U	1	U	1	U	1	U	1	U

TABLE 4 - FINAL RESULTS SUMMARY
 DATA VALIDATION REPORT
 JULY 2018 GROUNDWATER SAMPLING
 TEXTRON FORMER TORX FACILITY
 ROCHESTER, INDIANA

		SDG:	18071359	18071359	18071359	18071359	18071359					
		Location:	MW-37(70)	MW-37(98)	MW-38(102.5)	MW-38(20.8)	MW-38(29.1)					
		Date Collected:	07/17/18	07/17/18	07/17/18	07/17/18	07/17/18					
		Field Sample ID:	ATR-MW37(70)-G071718	ATR-MW37(98)-G071718	ATR-MW38(102)-G071718	ATR-MW38(20)-G071718	ATR-MW38(29.1)-G071718					
		Type:	FS	FS	FS	FS	FS					
Method	Unit	Parameter	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual
SW8260C	UG/L	Toluene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,2-Dichloroethene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,3-Dichloropropene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Trichloroethene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Vinyl chloride	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylene, o	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylenes (m&p)	2	U	2	U	2	U	2	U	2	U
SW8260C	UG/L	Xylenes, Total	3	U	3	U	3	U	3	U	3	U
SW9060A	MG/L	Total Organic Carbon										

U = not detected, value is the detection limit

J = value is estimated

UG/L = microgram per liter

FS = Field Sample

FD = Field Duplicate

TB = Trip Blank

TABLE 4 - FINAL RESULTS SUMMARY
 DATA VALIDATION REPORT
 JULY 2018 GROUNDWATER SAMPLING
 TEXTRON FORMER TORX FACILITY
 ROCHESTER, INDIANA

SDG:	18071359	18071359	18071359	18071359	18071359
Location:	MW-38(69.9)	MW-39(13)	MW-39(29.3)	MW-39(76.8)	MW-45(185)
Date Collected:	07/17/18	07/17/18	07/17/18	07/17/18	07/18/18
Field Sample ID:	ATR-MW38(69.9)-G071718	ATR-MW39(13)-G071718	ATR-MW39(29.3)-G071718	ATR-MW39(76.8)-G071718	ATR-MW45(185)G071818

Type:	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	FS	
Method	Unit	Parameter	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual

SW8260C	UG/L	1,1,1-Trichloroethane	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	1,1,2-Trichloroethane	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	1,1-Dichloroethane	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	1,1-Dichloroethene	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	1,2-Dichloroethane	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	1,2-Dichloropropane	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	2-Butanone	5 U		5 U		5 U		5 U		5 U	
SW8260C	UG/L	2-Hexanone	5 U		5 U		5 U		5 U		5 U	
SW8260C	UG/L	4-Methyl-2-pentanone	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	Acetone	10 U		10 U		10 U		10 U		10 U	
SW8260C	UG/L	Benzene	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	Bromodichloromethane	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	Bromoform	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	Bromomethane	1 UJ		1 UJ		1 UJ		1 UJ		1 UJ	
SW8260C	UG/L	Carbon disulfide	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	Carbon tetrachloride	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	Chlorobenzene	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	Chloroethane	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	Chloroform	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	Chloromethane	1 UJ		1 UJ		1 UJ		1 UJ		1 UJ	
SW8260C	UG/L	Cis-1,2-Dichloroethene	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	Cis-1,3-Dichloropropene	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	Dibromochloromethane	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	Ethylbenzene	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	Methylene chloride	5 U		5 U		5 U		5 U		5 U	
SW8260C	UG/L	Styrene	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	Tetrachloroethene	1 U		1 U		1 U		1 U		1 U	

TABLE 4 - FINAL RESULTS SUMMARY
 DATA VALIDATION REPORT
 JULY 2018 GROUNDWATER SAMPLING
 TEXTRON FORMER TORX FACILITY
 ROCHESTER, INDIANA

SDG:	18071359	18071359	18071359	18071359	18071359
Location:	MW-38(69.9)	MW-39(13)	MW-39(29.3)	MW-39(76.8)	MW-45(185)
Date Collected:	07/17/18	07/17/18	07/17/18	07/17/18	07/18/18
Field Sample ID:	ATR-MW38(69.9)-G071718	ATR-MW39(13)-G071718	ATR-MW39(29.3)-G071718	ATR-MW39(76.8)-G071718	ATR-MW45(185)G071818

Type:	FS	FS	FS	FS	FS
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Method	Unit	Parameter	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual
SW8260C	UG/L	Toluene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,2-Dichloroethene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,3-Dichloropropene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Trichloroethene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Vinyl chloride	2.2		1	U			1	U	1	U
SW8260C	UG/L	Xylene, o	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylenes (m&p)	2	U	2	U	2	U	2	U	2	U
SW8260C	UG/L	Xylenes, Total	3	U	3	U	3	U	3	U	3	U
SW9060A	MG/L	Total Organic Carbon										

U = not detected, value is the detection limit

J = value is estimated

UG/L = microgram per liter

FS = Field Sample

FD = Field Duplicate

TB = Trip Blank

TABLE 4 - FINAL RESULTS SUMMARY
DATA VALIDATION REPORT
JULY 2018 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

SDG:	18071359	18071359	18071359	18071359	18071359
Location:	MW-48(159)	MW-50(45)	MW-50(80)	MW-51(25)	MW-51(70)
Date Collected:	07/20/18	07/19/18	07/19/18	07/19/18	07/19/18
Field Sample ID:	ATR-MW48(159)-G072018	ATR-MW50(45)-G071819	ATR-MW50(80)-G071918	ATR-MW51(25)-G071918	ATR-MW51(70)-G071918

Method	Unit	Parameter	Type: FS		FS		FS		FS		FS	
			Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual
SW8260C	UG/L	1,1,1-Trichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2-Trichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloropropane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	2-Butanone	5	U	5	U	5	U	5	U	5	U
SW8260C	UG/L	2-Hexanone	5	U	5	U	5	U	5	U	5	U
SW8260C	UG/L	4-Methyl-2-pentanone	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Acetone	10	U	10	U	10	U	10	U	10	U
SW8260C	UG/L	Benzene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromodichloromethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromoform	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromomethane	1	U	1	UJ	1	UJ	1	UJ	1	UJ
SW8260C	UG/L	Carbon disulfide	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon tetrachloride	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chlorobenzene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroform	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloromethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Cis-1,2-Dichloroethene	1	U	1.3		1	U	1	U	1	U
SW8260C	UG/L	Cis-1,3-Dichloropropene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Dibromochloromethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Ethylbenzene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Methylene chloride	5	U	5	U	5	U	5	U	5	U
SW8260C	UG/L	Styrene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Tetrachloroethene	1	U	1	U	1	U	1	U	1	U

TABLE 4 - FINAL RESULTS SUMMARY
 DATA VALIDATION REPORT
 JULY 2018 GROUNDWATER SAMPLING
 TEXTRON FORMER TORX FACILITY
 ROCHESTER, INDIANA

		SDG:	18071359	18071359	18071359	18071359	18071359					
		Location:	MW-48(159)	MW-50(45)	MW-50(80)	MW-51(25)	MW-51(70)					
		Date Collected:	07/20/18	07/19/18	07/19/18	07/19/18	07/19/18					
		Field Sample ID:	ATR-MW48(159)-G072018	ATR-MW50(45)-G071819	ATR-MW50(80)-G071918	ATR-MW51(25)-G071918	ATR-MW51(70)-G071918					
		Type:	FS	FS	FS	FS	FS					
Method	Unit	Parameter	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual
SW8260C	UG/L	Toluene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,2-Dichloroethene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,3-Dichloropropene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Trichloroethene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Vinyl chloride	2.8		1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylene, o	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylenes (m&p)	2	U	2	U	2	U	2	U	2	U
SW8260C	UG/L	Xylenes, Total	3	U	3	U	3	U	3	U	3	U
SW9060A	MG/L	Total Organic Carbon										

U = not detected, value is the detection limit

J = value is estimated

UG/L = microgram per liter

FS = Field Sample

FD = Field Duplicate

TB = Trip Blank

TABLE 4 - FINAL RESULTS SUMMARY
 DATA VALIDATION REPORT
 JULY 2018 GROUNDWATER SAMPLING
 TEXTRON FORMER TORX FACILITY
 ROCHESTER, INDIANA

SDG:	18071359	18071359	18071359	18071359	18071359
Location:	MW-52(148)	MW-52(55)	MW-53(41)	MW-55(49)	MW-56(50)
Date Collected:	07/18/18	07/18/18	07/18/18	07/18/18	07/18/18
Field Sample ID:	ATR-MW52(148)-G071818	ATR-MW52(55)-G071818	ATR-MW53(41)-G071818	ATR-MW55(49)-G071818	ATR-MW56(51)-G071818

Method	Unit	Parameter	Type: FS		FS		FS		FS		FS	
			Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual
SW8260C	UG/L	1,1,1-Trichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2-Trichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloropropane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	2-Butanone	5	U	5	U	5	U	5	U	5	U
SW8260C	UG/L	2-Hexanone	5	U	5	U	5	U	5	U	5	U
SW8260C	UG/L	4-Methyl-2-pentanone	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Acetone	10	U	10	U	10	U	10	U	10	U
SW8260C	UG/L	Benzene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromodichloromethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromoform	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromomethane	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
SW8260C	UG/L	Carbon disulfide	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon tetrachloride	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chlorobenzene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroform	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloromethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Cis-1,2-Dichloroethene	1	U	1	U	1	U	1.4		7.5	
SW8260C	UG/L	Cis-1,3-Dichloropropene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Dibromochloromethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Ethylbenzene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Methylene chloride	5	U	5	U	5	U	5	U	5	U
SW8260C	UG/L	Styrene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Tetrachloroethene	1	U	1	U	1	U	1	U	1	U

TABLE 4 - FINAL RESULTS SUMMARY
 DATA VALIDATION REPORT
 JULY 2018 GROUNDWATER SAMPLING
 TEXTRON FORMER TORX FACILITY
 ROCHESTER, INDIANA

SDG:	18071359	18071359	18071359	18071359	18071359
Location:	MW-52(148)	MW-52(55)	MW-53(41)	MW-55(49)	MW-56(50)
Date Collected:	07/18/18	07/18/18	07/18/18	07/18/18	07/18/18
Field Sample ID:	ATR-MW52(148)-G071818	ATR-MW52(55)-G071818	ATR-MW53(41)-G071818	ATR-MW55(49)-G071818	ATR-MW56(51)-G071818

Method	Unit	Parameter	Type: FS		FS		FS		FS		FS	
			Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual
SW8260C	UG/L	Toluene	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	trans-1,2-Dichloroethene	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	trans-1,3-Dichloropropene	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	Trichloroethene	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	Vinyl chloride	1 U		1 U		1 U		1 U		2	
SW8260C	UG/L	Xylene, o	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	Xylenes (m&p)	2 U		2 U		2 U		2 U		2 U	
SW8260C	UG/L	Xylenes, Total	3 U		3 U		3 U		3 U		3 U	
SW9060A	MG/L	Total Organic Carbon										

U = not detected, value is the detection limit

J = value is estimated

UG/L = microgram per liter

FS = Field Sample

FD = Field Duplicate

TB = Trip Blank

TABLE 4 - FINAL RESULTS SUMMARY
 DATA VALIDATION REPORT
 JULY 2018 GROUNDWATER SAMPLING
 TEXTRON FORMER TORX FACILITY
 ROCHESTER, INDIANA

SDG:	18071359	18071359	18071359	18071359	18071359
Location:	MW-57(38)	MW-60(38)	MW-84(44)	MW-85(130)	MW-85(39)
Date Collected:	07/17/18	07/18/18	07/20/18	07/17/18	07/17/18
Field Sample ID:	ATR-MW57(38)-G071718	ATR-MW60(38)-G071818	ATR-MW84(44)-G072018	ATR-MW85(130)-G071718	ATR-MW85(39)-G071718

	Type:	FS	FS	FS	FS	FS	FS					
Method	Unit	Parameter	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual

SW8260C	UG/L	1,1,1-Trichloroethane	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	1,1,2-Trichloroethane	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	1,1-Dichloroethane	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	1,1-Dichloroethene	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	1,2-Dichloroethane	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	1,2-Dichloropropane	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	2-Butanone	5 U		5 U		5 U		5 U		5 U	
SW8260C	UG/L	2-Hexanone	5 U		5 U		5 U		5 U		5 U	
SW8260C	UG/L	4-Methyl-2-pentanone	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	Acetone	10 U		10 U		10 U		10 U		10 U	
SW8260C	UG/L	Benzene	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	Bromodichloromethane	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	Bromoform	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	Bromomethane	1 UJ		1 U		1 U		1 UJ		1 UJ	
SW8260C	UG/L	Carbon disulfide	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	Carbon tetrachloride	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	Chlorobenzene	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	Chloroethane	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	Chloroform	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	Chloromethane	1 UJ		1 U		1 U		1 UJ		1 UJ	
SW8260C	UG/L	Cis-1,2-Dichloroethene	7.2		44		1 U		1 U		1 U	
SW8260C	UG/L	Cis-1,3-Dichloropropene	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	Dibromochloromethane	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	Ethylbenzene	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	Methylene chloride	5 U		5 U		5 U		5 U		5 U	
SW8260C	UG/L	Styrene	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	Tetrachloroethene	1 U		1 U		1 U		1 U		1 U	

TABLE 4 - FINAL RESULTS SUMMARY
 DATA VALIDATION REPORT
 JULY 2018 GROUNDWATER SAMPLING
 TEXTRON FORMER TORX FACILITY
 ROCHESTER, INDIANA

SDG:	18071359	18071359	18071359	18071359	18071359
Location:	MW-57(38)	MW-60(38)	MW-84(44)	MW-85(130)	MW-85(39)
Date Collected:	07/17/18	07/18/18	07/20/18	07/17/18	07/17/18
Field Sample ID:	ATR-MW57(38)-G071718	ATR-MW60(38)-G071818	ATR-MW84(44)-G072018	ATR-MW85(130)-G071718	ATR-MW85(39)-G071718
Type:	FS	FS	FS	FS	FS

Method	Unit	Parameter	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual
SW8260C	UG/L	Toluene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,2-Dichloroethene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,3-Dichloropropene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Trichloroethene	5.4		1	U	3		1	U	1	U
SW8260C	UG/L	Vinyl chloride	1	U	70		1	U	1	U	1	U
SW8260C	UG/L	Xylene, o	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylenes (m&p)	2	U	2	U	2	U	2	U	2	U
SW8260C	UG/L	Xylenes, Total	3	U	3	U	3	U	3	U	3	U
SW9060A	MG/L	Total Organic Carbon										

U = not detected, value is the detection limit

J = value is estimated

UG/L = microgram per liter

FS = Field Sample

FD = Field Duplicate

TB = Trip Blank

TABLE 4 - FINAL RESULTS SUMMARY
DATA VALIDATION REPORT
JULY 2018 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

SDG:	18071359	18071359	18071359	18071359	18071359
Location:	MW-9B	MW-9C	OW-06(38)	OW-06(63)	QC
Date Collected:	07/19/18	07/19/18	07/19/18	07/19/18	07/17/18
Field Sample ID:	ATR-MW9B-G071918	ATR-MW9C-G071918	ATR-OW6(38)-G071918	ATR-OW6(63)-G071918	ATR-MW38(102)-G071718-EB

Method	Unit	Parameter	Type: FS		FS		FS		FS		EB	
			Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual
SW8260C	UG/L	1,1,1-Trichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2-Trichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloropropane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	2-Butanone	5	U	5	U	5	U	200	J	5	U
SW8260C	UG/L	2-Hexanone	5	U	5	U	5	U	5	U	5	U
SW8260C	UG/L	4-Methyl-2-pentanone	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Acetone	10	U	10	U	10	U	15	J	10	U
SW8260C	UG/L	Benzene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromodichloromethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromoform	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromomethane	1	UJ	1	UJ	1	UJ	1	UJ	1	U
SW8260C	UG/L	Carbon disulfide	1	U	1	U	1	U	1	U	5.7	
SW8260C	UG/L	Carbon tetrachloride	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chlorobenzene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroethane	1	U	1	U	1	U	1	UJ	1	U
SW8260C	UG/L	Chloroform	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloromethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Cis-1,2-Dichloroethene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Cis-1,3-Dichloropropene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Dibromochloromethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Ethylbenzene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Methylene chloride	5	U	5	U	5	U	5	U	5	U
SW8260C	UG/L	Styrene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Tetrachloroethene	1	U	1	U	1	U	1	U	1	U

TABLE 4 - FINAL RESULTS SUMMARY
 DATA VALIDATION REPORT
 JULY 2018 GROUNDWATER SAMPLING
 TEXTRON FORMER TORX FACILITY
 ROCHESTER, INDIANA

		SDG:	18071359	18071359	18071359	18071359	18071359					
		Location:	MW-9B	MW-9C	OW-06(38)	OW-06(63)	QC					
		Date Collected:	07/19/18	07/19/18	07/19/18	07/19/18	07/17/18					
		Field Sample ID:	ATR-MW9B-G071918	ATR-MW9C-G071918	ATR-OW6(38)-G071918	ATR-OW6(63)-G071918	ATR-MW38(102)-G071718-EB					
		Type:	FS	FS	FS	FS	EB					
Method	Unit	Parameter	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual
SW8260C	UG/L	Toluene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,2-Dichloroethene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,3-Dichloropropene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Trichloroethene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Vinyl chloride	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylene, o	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylenes (m&p)	2	U	2	U	2	U	2	U	2	U
SW8260C	UG/L	Xylenes, Total	3	U	3	U	3	U	3	U	3	U
SW9060A	MG/L	Total Organic Carbon										

U = not detected, value is the detection limit

J = value is estimated

UG/L = microgram per liter

FS = Field Sample

FD = Field Duplicate

TB = Trip Blank

TABLE 4 - FINAL RESULTS SUMMARY
 DATA VALIDATION REPORT
 JULY 2018 GROUNDWATER SAMPLING
 TEXTRON FORMER TORX FACILITY
 ROCHESTER, INDIANA

SDG:	18071359	18071359	18071359	18071359	18071359
Location:	QC	QC	QC	QC	QC
Date Collected:	07/18/18	07/19/18	07/19/18	07/20/18	07/20/18
Field Sample ID:	ATR-MW31(30.9)-G071818-EB	ATR-MW34(37)-G071918-EB	FIELD BLANK	ATR-072018-TB-02	ATR-MW27(18)-G072018-EB
Type:	EB	EB	FB	TB	EB

Method	Unit	Parameter	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual
SW8260C	UG/L	1,1,1-Trichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2-Trichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloropropane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	2-Butanone	5	U	5	U	5	U	5	U	5	U
SW8260C	UG/L	2-Hexanone	5	U	5	U	5	U	5	U	5	U
SW8260C	UG/L	4-Methyl-2-pentanone	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Acetone	10	U	10	U	10	U	10	U	10	U
SW8260C	UG/L	Benzene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromodichloromethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromoform	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromomethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon disulfide	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon tetrachloride	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chlorobenzene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroform	1	U	1	U	1	U	1	U	1.3	
SW8260C	UG/L	Chloromethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Cis-1,2-Dichloroethene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Cis-1,3-Dichloropropene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Dibromochloromethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Ethylbenzene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Methylene chloride	5	U	5	U	5	U	5	U	5	U
SW8260C	UG/L	Styrene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Tetrachloroethene	1	U	1	U	1	U	1	U	1	U

TABLE 4 - FINAL RESULTS SUMMARY
 DATA VALIDATION REPORT
 JULY 2018 GROUNDWATER SAMPLING
 TEXTRON FORMER TORX FACILITY
 ROCHESTER, INDIANA

		SDG:	18071359	18071359	18071359	18071359	18071359					
		Location:	QC	QC	QC	QC	QC					
		Date Collected:	07/18/18	07/19/18	07/19/18	07/20/18	07/20/18					
		Field Sample ID:	ATR-MW31(30.9)-G071818-EB	ATR-MW34(37)-G071918-EB	FIELD BLANK	ATR-072018-TB-02	ATR-MW27(18)-G072018-EB					
		Type:	EB	EB	FB	TB	EB					
Method	Unit	Parameter	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual
SW8260C	UG/L	Toluene	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	trans-1,2-Dichloroethene	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	trans-1,3-Dichloropropene	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	Trichloroethene	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	Vinyl chloride	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	Xylene, o	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	Xylenes (m&p)	2 U		2 U		2 U		2 U		2 U	
SW8260C	UG/L	Xylenes, Total	3 U		3 U		3 U		3 U		3 U	
SW9060A	MG/L	Total Organic Carbon										

U = not detected, value is the detection limit

J = value is estimated

UG/L = microgram per liter

FS = Field Sample

FD = Field Duplicate

TB = Trip Blank

TABLE 4 - FINAL RESULTS SUMMARY
DATA VALIDATION REPORT
JULY 2018 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

SDG:	18071390	18071390	18071390	18071390	18071390
Location:	MW-16	MW-17	MW-17	MW-26(17.5)	MW-26(28.8)
Date Collected:	07/19/18	07/19/18	07/19/18	07/20/18	07/20/18
Field Sample ID:	ATR-MW16-G071918	ATR-MW17-G071918	ATR-MW17-G071918-R	ATR-MW26(17.5)-G072018	ATR-MW26(28.8)-G072018

Method	Unit	Parameter	Type: FS		FS		FD		FS		FS	
			Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual
SW8260C	UG/L	1,1,1-Trichloroethane	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2-Trichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloropropane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	2-Butanone	5.6		5	U	5	U	5	U	5	U
SW8260C	UG/L	2-Hexanone	5	U	5	U	5	U	5	U	5	U
SW8260C	UG/L	4-Methyl-2-pentanone	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Acetone	10	U	10	U	10	U	10	U	10	U
SW8260C	UG/L	Benzene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromodichloromethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromoform	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromomethane	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
SW8260C	UG/L	Carbon disulfide	1	UJ	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon tetrachloride	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
SW8260C	UG/L	Chlorobenzene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroethane	1	UJ	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroform	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloromethane	1	UJ	1	U	1	U	1	U	1	U
SW8260C	UG/L	Cis-1,2-Dichloroethene	1	U	30		31		1	U	1	U
SW8260C	UG/L	Cis-1,3-Dichloropropene	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
SW8260C	UG/L	Dibromochloromethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Ethylbenzene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Methylene chloride	5	U	5	U	5	U	5	U	5	U
SW8260C	UG/L	Styrene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Tetrachloroethene	1	U	1	U	1	U	1	U	1	U

TABLE 4 - FINAL RESULTS SUMMARY
 DATA VALIDATION REPORT
 JULY 2018 GROUNDWATER SAMPLING
 TEXTRON FORMER TORX FACILITY
 ROCHESTER, INDIANA

		SDG:	18071390	18071390	18071390	18071390	18071390					
		Location:	MW-16	MW-17	MW-17	MW-26(17.5)	MW-26(28.8)					
		Date Collected:	07/19/18	07/19/18	07/19/18	07/20/18	07/20/18					
		Field Sample ID:	ATR-MW16-G071918	ATR-MW17-G071918	ATR-MW17-G071918-R	ATR-MW26(17.5)-G072018	ATR-MW26(28.8)-G072018					
		Type:	FS	FS	FD	FS	FS					
Method	Unit	Parameter	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual
SW8260C	UG/L	Toluene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,2-Dichloroethene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,3-Dichloropropene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Trichloroethene	1	U	70		67		1	U	1	U
SW8260C	UG/L	Vinyl chloride	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylene, o	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylenes (m&p)	2	U	2	U	2	U	2	U	2	U
SW8260C	UG/L	Xylenes, Total	3	U	3	U	3	U	3	U	3	U
SW9060A	MG/L	Total Organic Carbon	13		4		4		3.6		3.9	

U = not detected, value is the detection limit

J = value is estimated

UG/L = microgram per liter

FS = Field Sample

FD = Field Duplicate

TB = Trip Blank

TABLE 4 - FINAL RESULTS SUMMARY
 DATA VALIDATION REPORT
 JULY 2018 GROUNDWATER SAMPLING
 TEXTRON FORMER TORX FACILITY
 ROCHESTER, INDIANA

SDG:	18071390	18071390	18071390	18071390	18071390
Location:	MW-26(58.8)	QC	QC	ZVI-2(17.5)	ZVI-2(32.5)
Date Collected:	07/20/18	07/19/18	07/20/18	07/19/18	07/19/18
Field Sample ID:	ATR-MW26(58.2)-G072018	Field Blank	ATR-G072018-TB-03	ATR-ZVI-2(17.5)-G071918	ATR-ZVI-2(32.5)-G071918

Method	Unit	Parameter	Type: FS		FS		TB		FS		FS	
			Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual
SW8260C	UG/L	1,1,1-Trichloroethane	1	UJ			1	U	1	UJ	1	UJ
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	1	U			1	U	1	U	1	U
SW8260C	UG/L	1,1,2-Trichloroethane	1	U			1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethane	1	U			1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethene	1	U			1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloroethane	1	U			1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloropropane	1	U			1	U	1	U	1	U
SW8260C	UG/L	2-Butanone	5	U			5	U	5	U	5	U
SW8260C	UG/L	2-Hexanone	5	U			5	U	5	U	5	U
SW8260C	UG/L	4-Methyl-2-pentanone	1	U			1	U	1	U	1	U
SW8260C	UG/L	Acetone	10	U			10	U	10	U	10	U
SW8260C	UG/L	Benzene	1	U			1	U	1	U	1	U
SW8260C	UG/L	Bromodichloromethane	1	U			1	U	1	U	1	U
SW8260C	UG/L	Bromoform	1	U			1	U	1	U	1	U
SW8260C	UG/L	Bromomethane	1	UJ			1	U	1	UJ	1	UJ
SW8260C	UG/L	Carbon disulfide	1	U			1	U	1	UJ	1	UJ
SW8260C	UG/L	Carbon tetrachloride	1	UJ			1	U	1	UJ	1	UJ
SW8260C	UG/L	Chlorobenzene	1	U			1	U	1	U	1	U
SW8260C	UG/L	Chloroethane	1	U			1	U	1	UJ	1	UJ
SW8260C	UG/L	Chloroform	1	U			1	U	1	U	1	U
SW8260C	UG/L	Chloromethane	1	U			1	U	1	UJ	1	UJ
SW8260C	UG/L	Cis-1,2-Dichloroethene	1	U			1	U	1	U	1	U
SW8260C	UG/L	Cis-1,3-Dichloropropene	1	UJ			1	U	1	UJ	1	UJ
SW8260C	UG/L	Dibromochloromethane	1	U			1	U	1	U	1	U
SW8260C	UG/L	Ethylbenzene	1	U			1	U	1	U	1	U
SW8260C	UG/L	Methylene chloride	5	U			5	U	5	U	5	U
SW8260C	UG/L	Styrene	1	U			1	U	1	U	1	U
SW8260C	UG/L	Tetrachloroethene	1	U			1	U	1	U	1	U

TABLE 4 - FINAL RESULTS SUMMARY
 DATA VALIDATION REPORT
 JULY 2018 GROUNDWATER SAMPLING
 TEXTRON FORMER TORX FACILITY
 ROCHESTER, INDIANA

			SDG: 18071390		18071390		18071390		18071390		18071390	
			Location: MW-26(58.8)		QC		QC		ZVI-2(17.5)		ZVI-2(32.5)	
			Date Collected: 07/20/18		07/19/18		07/20/18		07/19/18		07/19/18	
			Field Sample ID: ATR-MW26(58.2)-G072018		Field Blank		ATR-G072018-TB-03		ATR-ZVI-2(17.5)-G071918		ATR-ZVI-2(32.5)-G071918	
			Type: FS		FS		TB		FS		FS	
Method	Unit	Parameter	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual
SW8260C	UG/L	Toluene	1	U			1	U	1	U	1	U
SW8260C	UG/L	trans-1,2-Dichloroethene	1	U			1	U	1	U	1	U
SW8260C	UG/L	trans-1,3-Dichloropropene	1	U			1	U	1	U	1	U
SW8260C	UG/L	Trichloroethene	1	U			1	U	1	U	1	U
SW8260C	UG/L	Vinyl chloride	1	U			1	U	1	U	1	U
SW8260C	UG/L	Xylene, o	1	U			1	U	1	U	1	U
SW8260C	UG/L	Xylenes (m&p)	2	U			2	U	2	U	2	U
SW8260C	UG/L	Xylenes, Total	3	U			3	U	3	U	3	U
SW9060A	MG/L	Total Organic Carbon	1.4		0.5	U			3.3		3.5	

U = not detected, value is the detection limit

J = value is estimated

UG/L = microgram per liter

FS = Field Sample

FD = Field Duplicate

TB = Trip Blank

TABLE 4 - FINAL RESULTS SUMMARY
 DATA VALIDATION REPORT
 JULY 2018 GROUNDWATER SAMPLING
 TEXTRON FORMER TORX FACILITY
 ROCHESTER, INDIANA

		SDG:	18071884	18071884	18071884	18071884	18071884					
		Location:	MW-12	MW-13	MW-14	MW-15	MW-20(35)					
		Date Collected:	07/26/18	07/26/18	07/24/18	07/23/18	07/24/18					
		Field Sample ID:	ATR-MW12-G072618	ATR-MW13-G072618	ATR-MW14-G072418	ATR-MW15-G072318	ATR-MW20(35)-G072418					
		Type:	FS	FS	FS	FS	FS					
Method	Unit	Parameter	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual
SW8260C	UG/L	1,1,1-Trichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2-Trichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloropropane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	2-Butanone	5	U	5	U	5	U	130		5	U
SW8260C	UG/L	2-Hexanone	5	U	5	U	5	U	5	U	5	U
SW8260C	UG/L	4-Methyl-2-pentanone	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Acetone	10	U	10	U	10	U	12		10	U
SW8260C	UG/L	Benzene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromodichloromethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromoform	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromomethane	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
SW8260C	UG/L	Carbon disulfide	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon tetrachloride	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chlorobenzene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroethane	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
SW8260C	UG/L	Chloroform	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloromethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Cis-1,2-Dichloroethene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Cis-1,3-Dichloropropene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Dibromochloromethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Ethylbenzene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Methylene chloride	5	U	5	U	5	U	5	U	5	U
SW8260C	UG/L	Styrene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Tetrachloroethene	1	U	1	U	1	U	1	U	1	U

TABLE 4 - FINAL RESULTS SUMMARY
 DATA VALIDATION REPORT
 JULY 2018 GROUNDWATER SAMPLING
 TEXTRON FORMER TORX FACILITY
 ROCHESTER, INDIANA

SDG:	18071884	18071884	18071884	18071884	18071884
Location:	MW-12	MW-13	MW-14	MW-15	MW-20(35)
Date Collected:	07/26/18	07/26/18	07/24/18	07/23/18	07/24/18
Field Sample ID:	ATR-MW12-G072618	ATR-MW13-G072618	ATR-MW14-G072418	ATR-MW15-G072318	ATR-MW20(35)-G072418

Method	Unit	Parameter	Type: FS		FS		FS		FS		FS	
			Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual
SW8260C	UG/L	Toluene	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	trans-1,2-Dichloroethene	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	trans-1,3-Dichloropropene	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	Trichloroethene	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	Vinyl chloride	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	Xylene, o	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	Xylenes (m&p)	2 U		2 U		2 U		2 U		2 U	
SW8260C	UG/L	Xylenes, Total	3 U		3 U		3 U		3 U		3 U	
SW9060A	MG/L	Total Organic Carbon	7.3		2.2		4.4		280		5.4	

U = not detected, value is the detection limit

J = value is estimated

UG/L = microgram per liter

FS = Field Sample

FD = Field Duplicate

TB = Trip Blank

TABLE 4 - FINAL RESULTS SUMMARY
 DATA VALIDATION REPORT
 JULY 2018 GROUNDWATER SAMPLING
 TEXTRON FORMER TORX FACILITY
 ROCHESTER, INDIANA

SDG:	18071884	18071884	18071884	18071884	18071884
Location:	MW-20(51)	MW-24(24.9)	MW-24(55.9)	MW-24(55.9)	MW-25(16.4)
Date Collected:	07/24/18	07/23/18	07/23/18	07/23/18	07/23/18
Field Sample ID:	ATR-MW20(51)-G072418	ATR-MW24(24.9)-G072318	ATR-MW24(55.4)-G072318	ATR-MW24(55.4)-G072318-R	ATR-MW25(16.4)-G072318

Method	Unit	Parameter	Type: FS		FS		FS		FD		FS	
			Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual
SW8260C	UG/L	1,1,1-Trichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2-Trichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloropropane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	2-Butanone	5	U	5	U	5	U	5	U	5	U
SW8260C	UG/L	2-Hexanone	5	U	5	U	5	U	5	U	5	U
SW8260C	UG/L	4-Methyl-2-pentanone	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Acetone	10	U	10	U	10	U	10	U	10	U
SW8260C	UG/L	Benzene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromodichloromethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromoform	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromomethane	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
SW8260C	UG/L	Carbon disulfide	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon tetrachloride	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chlorobenzene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroethane	1	UJ	1	U	1	UJ	1	UJ	1	U
SW8260C	UG/L	Chloroform	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloromethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Cis-1,2-Dichloroethene	1	U	1	U	8.6		10		1	U
SW8260C	UG/L	Cis-1,3-Dichloropropene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Dibromochloromethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Ethylbenzene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Methylene chloride	5	U	5	U	5	U	5	U	5	U
SW8260C	UG/L	Styrene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Tetrachloroethene	1	U	1	U	1	U	1	U	1	U

TABLE 4 - FINAL RESULTS SUMMARY
 DATA VALIDATION REPORT
 JULY 2018 GROUNDWATER SAMPLING
 TEXTRON FORMER TORX FACILITY
 ROCHESTER, INDIANA

		SDG:	18071884	18071884	18071884	18071884	18071884					
		Location:	MW-20(51)	MW-24(24.9)	MW-24(55.9)	MW-24(55.9)	MW-25(16.4)					
		Date Collected:	07/24/18	07/23/18	07/23/18	07/23/18	07/23/18					
		Field Sample ID:	ATR-MW20(51)-G072418	ATR-MW24(24.9)-G072318	ATR-MW24(55.4)-G072318	ATR-MW24(55.4)-G072318-R	ATR-MW25(16.4)-G072318					
		Type:	FS	FS	FS	FD	FS					
Method	Unit	Parameter	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual
SW8260C	UG/L	Toluene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,2-Dichloroethene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,3-Dichloropropene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Trichloroethene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Vinyl chloride	1	U	1	U	26		29		1	U
SW8260C	UG/L	Xylene, o	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylenes (m&p)	2	U	2	U	2	U	2	U	2	U
SW8260C	UG/L	Xylenes, Total	3	U	3	U	3	U	3	U	3	U
SW9060A	MG/L	Total Organic Carbon	4.2		2		2.7		2.7		4.6	

U = not detected, value is the detection limit

J = value is estimated

UG/L = microgram per liter

FS = Field Sample

FD = Field Duplicate

TB = Trip Blank

TABLE 4 - FINAL RESULTS SUMMARY
 DATA VALIDATION REPORT
 JULY 2018 GROUNDWATER SAMPLING
 TEXTRON FORMER TORX FACILITY
 ROCHESTER, INDIANA

SDG:	18071884	18071884	18071884	18071884	18071884
Location:	MW-25(32.6)	MW-25(45.2)	MW-59(29)	MW-59(29)	MW-62(36)
Date Collected:	07/23/18	07/24/18	07/24/18	07/24/18	07/24/18
Field Sample ID:	ATR-MW25(32.6)-G072318	ATR-MW25(45.2)-G072418	ATR-MW59(29)-G072418	ATR-MW59(29)-G072418-R	ATR-MW62(36)-G072418

	Type:		FS		FS		FS		FD		FS	
Method	Unit	Parameter	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual

SW8260C	UG/L	1,1,1-Trichloroethane	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	1,1,2-Trichloroethane	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	1,1-Dichloroethane	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	1,1-Dichloroethene	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	1,2-Dichloroethane	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	1,2-Dichloropropane	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	2-Butanone	5 U		77		5 U		5 U		5 U	
SW8260C	UG/L	2-Hexanone	5 U		5 U		5 U		5 U		5 U	
SW8260C	UG/L	4-Methyl-2-pentanone	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	Acetone	10 U		10 U		10 U		10 U		10 U	
SW8260C	UG/L	Benzene	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	Bromodichloromethane	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	Bromoform	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	Bromomethane	1 UJ		1 UJ		1 UJ		1 UJ		1 UJ	
SW8260C	UG/L	Carbon disulfide	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	Carbon tetrachloride	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	Chlorobenzene	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	Chloroethane	1 U		1 UJ		2.5		2.7		1 UJ	
SW8260C	UG/L	Chloroform	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	Chloromethane	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	Cis-1,2-Dichloroethene	1 U		1 U		1.7		1.6		1 U	
SW8260C	UG/L	Cis-1,3-Dichloropropene	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	Dibromochloromethane	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	Ethylbenzene	1 U		1 U		2.4		2.2		1 U	
SW8260C	UG/L	Methylene chloride	5 U		5 U		5 U		5 U		5 U	
SW8260C	UG/L	Styrene	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	Tetrachloroethene	1 U		1 U		1 U		1 U		1 U	

TABLE 4 - FINAL RESULTS SUMMARY
 DATA VALIDATION REPORT
 JULY 2018 GROUNDWATER SAMPLING
 TEXTRON FORMER TORX FACILITY
 ROCHESTER, INDIANA

SDG:	18071884	18071884	18071884	18071884	18071884
Location:	MW-25(32.6)	MW-25(45.2)	MW-59(29)	MW-59(29)	MW-62(36)
Date Collected:	07/23/18	07/24/18	07/24/18	07/24/18	07/24/18
Field Sample ID:	ATR-MW25(32.6)-G072318	ATR-MW25(45.2)-G072418	ATR-MW59(29)-G072418	ATR-MW59(29)-G072418-R	ATR-MW62(36)-G072418

	Type:	FS	FS	FS	FD	FS						
Method	Unit	Parameter	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual

SW8260C	UG/L	Toluene	1 U	U	1 U	U	11	U	10	U	1 U	U
SW8260C	UG/L	trans-1,2-Dichloroethene	1 U	U	1 U	U	1 U	U	1 U	U	1 U	U
SW8260C	UG/L	trans-1,3-Dichloropropene	1 U	U	1 U	U	1 U	U	1 U	U	1 U	U
SW8260C	UG/L	Trichloroethene	1 U	U	1 U	U	1 U	U	1 U	U	1 U	U
SW8260C	UG/L	Vinyl chloride	1 U	U	1 U	U	5.7	U	5.4	U	1 U	U
SW8260C	UG/L	Xylene, o	1 U	U	1 U	U	2.4	U	2.1	U	1 U	U
SW8260C	UG/L	Xylenes (m&p)	2 U	U	2 U	U	4.4	U	3.8	U	2 U	U
SW8260C	UG/L	Xylenes, Total	3 U	U	3 U	U	6.8	U	5.8	U	3 U	U
SW9060A	MG/L	Total Organic Carbon	4.7		74		11		12		7.3	

U = not detected, value is the detection limit

J = value is estimated

UG/L = microgram per liter

FS = Field Sample

FD = Field Duplicate

TB = Trip Blank

TABLE 4 - FINAL RESULTS SUMMARY
 DATA VALIDATION REPORT
 JULY 2018 GROUNDWATER SAMPLING
 TEXTRON FORMER TORX FACILITY
 ROCHESTER, INDIANA

SDG:	18071884	18071884	18071884	18071884	18071884
Location:	MW-67(30)	MW-68(32)	MW-6C	MW-71(33)	MW-72(32)
Date Collected:	07/25/18	07/25/18	07/26/18	07/25/18	07/25/18
Field Sample ID:	ATR-MW67(30)-G072518	ATR-MW68(32)-G072518	ATR-MW6C-G072618	ATR-MW71(33)-G072518	ATR-MW72(32)-G072518

	Type:	FS	FS	FS	FS	FS						
Method	Unit	Parameter	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual

SW8260C	UG/L	1,1,1-Trichloroethane	1 U		5 U		1 U		10 U		1 U	
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	1 U		5 U		1 U		10 U		1 U	
SW8260C	UG/L	1,1,2-Trichloroethane	1 U		5 U		1 U		10 U		1 U	
SW8260C	UG/L	1,1-Dichloroethane	1 U		5 U		1 U		10 U		1 U	
SW8260C	UG/L	1,1-Dichloroethene	1 U		5 U		1 U		10 U		1 U	
SW8260C	UG/L	1,2-Dichloroethane	1 U		5 U		1 U		10 U		1 U	
SW8260C	UG/L	1,2-Dichloropropane	1 U		5 U		1 U		10 U		1 U	
SW8260C	UG/L	2-Butanone	6.5		53 J		5 U		50 U		18	
SW8260C	UG/L	2-Hexanone	5 U		25 U		5 U		50 U		5 U	
SW8260C	UG/L	4-Methyl-2-pentanone	1 U		5 U		1 U		10 U		1 U	
SW8260C	UG/L	Acetone	15		50 U		10 U		100 U		20	
SW8260C	UG/L	Benzene	1 U		5 U		1 U		10 U		1 U	
SW8260C	UG/L	Bromodichloromethane	1 U		5 U		1 U		10 U		1 U	
SW8260C	UG/L	Bromoform	1 U		5 U		1 U		10 U		1 U	
SW8260C	UG/L	Bromomethane	1 UJ		5 UJ		1 UJ		10 UJ		1 UJ	
SW8260C	UG/L	Carbon disulfide	1 U		5 U		1 U		10 U		1 U	
SW8260C	UG/L	Carbon tetrachloride	1 U		5 U		1 U		10 U		1 U	
SW8260C	UG/L	Chlorobenzene	1 U		5 U		1 U		10 U		1 U	
SW8260C	UG/L	Chloroethane	1 UJ		5 UJ		1 UJ		10 UJ		1 UJ	
SW8260C	UG/L	Chloroform	1 U		5 U		1 U		10 U		1 U	
SW8260C	UG/L	Chloromethane	1 U		5 UJ		1 U		10 UJ		1 UJ	
SW8260C	UG/L	Cis-1,2-Dichloroethene	5.7		240 J		74		10 U		1 U	
SW8260C	UG/L	Cis-1,3-Dichloropropene	1 U		5 U		1 U		10 U		1 U	
SW8260C	UG/L	Dibromochloromethane	1 U		5 U		1 U		10 U		1 U	
SW8260C	UG/L	Ethylbenzene	1 U		5 U		1 U		10 U		1 U	
SW8260C	UG/L	Methylene chloride	5 U		25 U		5 U		50 U		5 U	
SW8260C	UG/L	Styrene	1 U		5 U		1 U		10 U		1 U	
SW8260C	UG/L	Tetrachloroethene	1 U		5 U		1 U		10 U		1 U	

TABLE 4 - FINAL RESULTS SUMMARY
 DATA VALIDATION REPORT
 JULY 2018 GROUNDWATER SAMPLING
 TEXTRON FORMER TORX FACILITY
 ROCHESTER, INDIANA

SDG:	18071884	18071884	18071884	18071884	18071884
Location:	MW-67(30)	MW-68(32)	MW-6C	MW-71(33)	MW-72(32)
Date Collected:	07/25/18	07/25/18	07/26/18	07/25/18	07/25/18
Field Sample ID:	ATR-MW67(30)-G072518	ATR-MW68(32)-G072518	ATR-MW6C-G072618	ATR-MW71(33)-G072518	ATR-MW72(32)-G072518

Type:	FS	FS	FS	FS	FS
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Method	Unit	Parameter	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual
SW8260C	UG/L	Toluene	1	U	5	U	1	U	39		2.3	
SW8260C	UG/L	trans-1,2-Dichloroethene	1	U	5	U	1	U	10	U	1	U
SW8260C	UG/L	trans-1,3-Dichloropropene	1	U	5	U	1	U	10	U	1	U
SW8260C	UG/L	Trichloroethene	1	U	5	U	1	U	10	U	1	U
SW8260C	UG/L	Vinyl chloride	2.4		1000		35		3000		1	U
SW8260C	UG/L	Xylene, o	1	U	5	U	1	U	10	U	1	U
SW8260C	UG/L	Xylenes (m&p)	2	U	10	U	2	U	20	U	2	U
SW8260C	UG/L	Xylenes, Total	3	U	15	U	3	U	30	U	3	U
SW9060A	MG/L	Total Organic Carbon	99		350		5.5		960		63	

U = not detected, value is the detection limit

J = value is estimated

UG/L = microgram per liter

FS = Field Sample

FD = Field Duplicate

TB = Trip Blank

TABLE 4 - FINAL RESULTS SUMMARY
 DATA VALIDATION REPORT
 JULY 2018 GROUNDWATER SAMPLING
 TEXTRON FORMER TORX FACILITY
 ROCHESTER, INDIANA

		SDG:	18071884	18071884	18071884	18071884	18071884					
		Location:	MW-76(30)	MW-76(30)	MW-77(41)	MW-78(35)	MW-81(27)					
		Date Collected:	07/25/18	07/25/18	07/25/18	07/25/18	07/24/18					
		Field Sample ID:	ATR-MW76(30)-G072518	ATR-MW76(30)-G072518-R	ATR-MW77(41)-G072518	ATR-MW78(35)-G072518	ATR-MW81(27)-G072418					
		Type:	FS	FD	FS	FS	FS					
Method	Unit	Parameter	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual
SW8260C	UG/L	1,1,1-Trichloroethane	5	U	5	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	5	U	5	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2-Trichloroethane	5	U	5	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethane	5	U	5	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethene	5	U	5	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloroethane	5	U	5	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloropropane	5	U	5	U	1	U	1	U	1	U
SW8260C	UG/L	2-Butanone	18		17		5.5		5	U	5	U
SW8260C	UG/L	2-Hexanone	25	U	25	U	5	U	5	U	5	U
SW8260C	UG/L	4-Methyl-2-pentanone	5	U	5	U	1	U	1	U	1	U
SW8260C	UG/L	Acetone	18		15		10	U	10	U	10	U
SW8260C	UG/L	Benzene	5	U	5	U	1	U	1	U	1	U
SW8260C	UG/L	Bromodichloromethane	5	U	5	U	1	U	1	U	1	U
SW8260C	UG/L	Bromoform	5	U	5	U	1	U	1	U	1	U
SW8260C	UG/L	Bromomethane	5	UJ	5	UJ	1	UJ	1	UJ	1	UJ
SW8260C	UG/L	Carbon disulfide	5	U	5	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon tetrachloride	5	U	5	U	1	U	1	U	1	U
SW8260C	UG/L	Chlorobenzene	5	U	5	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroethane	5	UJ	5	UJ	1	UJ	1	UJ	1	UJ
SW8260C	UG/L	Chloroform	5	U	5	U	1	U	1	U	1	U
SW8260C	UG/L	Chloromethane	5	U	5	U	1	U	1	U	1	UJ
SW8260C	UG/L	Cis-1,2-Dichloroethene	36		36		1	U	1	U	460	J
SW8260C	UG/L	Cis-1,3-Dichloropropene	5	U	5	U	1	U	1	U	1	U
SW8260C	UG/L	Dibromochloromethane	5	U	5	U	1	U	1	U	1	U
SW8260C	UG/L	Ethylbenzene	5	U	5	U	1	U	1	U	3.2	
SW8260C	UG/L	Methylene chloride	25	U	25	U	5	U	5	U	5	U
SW8260C	UG/L	Styrene	5	U	5	U	1	U	1	U	1	U
SW8260C	UG/L	Tetrachloroethene	5	U	5	U	1	U	1	U	1	U

TABLE 4 - FINAL RESULTS SUMMARY
 DATA VALIDATION REPORT
 JULY 2018 GROUNDWATER SAMPLING
 TEXTRON FORMER TORX FACILITY
 ROCHESTER, INDIANA

SDG:	18071884	18071884	18071884	18071884	18071884
Location:	MW-76(30)	MW-76(30)	MW-77(41)	MW-78(35)	MW-81(27)
Date Collected:	07/25/18	07/25/18	07/25/18	07/25/18	07/24/18
Field Sample ID:	ATR-MW76(30)-G072518	ATR-MW76(30)-G072518-R	ATR-MW77(41)-G072518	ATR-MW78(35)-G072518	ATR-MW81(27)-G072418

Type:	FS	FD	FS	FS	FS
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Method	Unit	Parameter	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual
SW8260C	UG/L	Toluene	5	U	5	U	1	U	1	U		11
SW8260C	UG/L	trans-1,2-Dichloroethene	5	U	5	U	1	U	1	U		3.9
SW8260C	UG/L	trans-1,3-Dichloropropene	5	U	5	U	1	U	1	U		1 U
SW8260C	UG/L	Trichloroethene	5	U	5	U	1	U	1	U		1 U
SW8260C	UG/L	Vinyl chloride	1200		1100		1	U	1	U		410
SW8260C	UG/L	Xylene, o	5	U	5	U	1	U	1	U		2.3
SW8260C	UG/L	Xylenes (m&p)	10	U	10	U	2	U	2	U		5.2
SW8260C	UG/L	Xylenes, Total	15	U	15	U	3	U	3	U		7.5
SW9060A	MG/L	Total Organic Carbon	390		410		19		0.59			82

U = not detected, value is the detection limit

J = value is estimated

UG/L = microgram per liter

FS = Field Sample

FD = Field Duplicate

TB = Trip Blank

TABLE 4 - FINAL RESULTS SUMMARY
 DATA VALIDATION REPORT
 JULY 2018 GROUNDWATER SAMPLING
 TEXTRON FORMER TORX FACILITY
 ROCHESTER, INDIANA

SDG:	18071884	18071884	18071884	18071884	18071884
Location:	MW-82(58)	OW-01(28)	OW-01(39)	OW-02(33)	OW-02(53)
Date Collected:	07/24/18	07/24/18	07/24/18	07/23/18	07/23/18
Field Sample ID:	ATR-MW82(58)-G072418	ATR-OW1(28)-G072418	ATR-OW1(39)-G072418	ATR-OW2(33)-G072318	ATR-OW2(55)-G072318

Method	Unit	Parameter	Type: FS		FS		FS		FS		FS	
			Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual
SW8260C	UG/L	1,1,1-Trichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2-Trichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloropropane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	2-Butanone	5	U	5	U	5	U	5	U	5	U
SW8260C	UG/L	2-Hexanone	5	U	5	U	5	U	5	U	5	U
SW8260C	UG/L	4-Methyl-2-pentanone	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Acetone	10	U	10	U	10	U	10	U	10	U
SW8260C	UG/L	Benzene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromodichloromethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromoform	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromomethane	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
SW8260C	UG/L	Carbon disulfide	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon tetrachloride	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chlorobenzene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroethane	1	UJ	1	U	1	U	1	U	1	UJ
SW8260C	UG/L	Chloroform	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloromethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Cis-1,2-Dichloroethene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Cis-1,3-Dichloropropene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Dibromochloromethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Ethylbenzene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Methylene chloride	5	U	5	U	5	U	5	U	5	U
SW8260C	UG/L	Styrene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Tetrachloroethene	1	U	1	U	1	U	1	U	1	U

TABLE 4 - FINAL RESULTS SUMMARY
 DATA VALIDATION REPORT
 JULY 2018 GROUNDWATER SAMPLING
 TEXTRON FORMER TORX FACILITY
 ROCHESTER, INDIANA

SDG:	18071884	18071884	18071884	18071884	18071884
Location:	MW-82(58)	OW-01(28)	OW-01(39)	OW-02(33)	OW-02(53)
Date Collected:	07/24/18	07/24/18	07/24/18	07/23/18	07/23/18
Field Sample ID:	ATR-MW82(58)-G072418	ATR-OW1(28)-G072418	ATR-OW1(39)-G072418	ATR-OW2(33)-G072318	ATR-OW2(55)-G072318
Type:	FS	FS	FS	FS	FS

Method	Unit	Parameter	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual
SW8260C	UG/L	Toluene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,2-Dichloroethene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,3-Dichloropropene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Trichloroethene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Vinyl chloride	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylene, o	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylenes (m&p)	2	U	2	U	2	U	2	U	2	U
SW8260C	UG/L	Xylenes, Total	3	U	3	U	3	U	3	U	3	U
SW9060A	MG/L	Total Organic Carbon	3.3		4.2		4.5		5.7		2.6	

U = not detected, value is the detection limit

J = value is estimated

UG/L = microgram per liter

FS = Field Sample

FD = Field Duplicate

TB = Trip Blank

TABLE 4 - FINAL RESULTS SUMMARY
DATA VALIDATION REPORT
JULY 2018 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

SDG:	18071884	18071884	18071884	18071884	18071884
Location:	OW-03(35)	OW-03(55)	OW-04(35)	OW-04(54)	OW-05(16)
Date Collected:	07/24/18	07/24/18	07/23/18	07/24/18	07/23/18
Field Sample ID:	ATR-OW3(35)-G072418	ATR-OW3(55)-G072418	ATR-OW4(35)-G072318	ATR-OW4(54)-G072418	ATR-OW5(16)-G072318

Method	Unit	Parameter	Type: FS		FS		FS		FS		FS	
			Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual
SW8260C	UG/L	1,1,1-Trichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2-Trichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloropropane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	2-Butanone	5	U	38		17		75		5	U
SW8260C	UG/L	2-Hexanone	5	U	5	U	5	U	5	U	5	U
SW8260C	UG/L	4-Methyl-2-pentanone	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Acetone	10	U	10	U	10	U	10	U	10	U
SW8260C	UG/L	Benzene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromodichloromethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromoform	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromomethane	1	UJ	1	UJ	1	UJ	1	UJ	1	UJ
SW8260C	UG/L	Carbon disulfide	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon tetrachloride	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chlorobenzene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroethane	1	UJ	1	UJ	1	UJ	1	UJ	1	U
SW8260C	UG/L	Chloroform	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloromethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Cis-1,2-Dichloroethene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Cis-1,3-Dichloropropene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Dibromochloromethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Ethylbenzene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Methylene chloride	5	U	5	U	5	U	5	U	5	U
SW8260C	UG/L	Styrene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Tetrachloroethene	1	U	1	U	1	U	1	U	1	U

TABLE 4 - FINAL RESULTS SUMMARY
 DATA VALIDATION REPORT
 JULY 2018 GROUNDWATER SAMPLING
 TEXTRON FORMER TORX FACILITY
 ROCHESTER, INDIANA

SDG:	18071884	18071884	18071884	18071884	18071884
Location:	OW-03(35)	OW-03(55)	OW-04(35)	OW-04(54)	OW-05(16)
Date Collected:	07/24/18	07/24/18	07/23/18	07/24/18	07/23/18
Field Sample ID:	ATR-OW3(35)-G072418	ATR-OW3(55)-G072418	ATR-OW4(35)-G072318	ATR-OW4(54)-G072418	ATR-OW5(16)-G072318

Method	Unit	Parameter	FS		FS		FS		FS		FS	
			Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual
SW8260C	UG/L	Toluene	1 U		1 U		1.4		1 U		1 U	
SW8260C	UG/L	trans-1,2-Dichloroethene	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	trans-1,3-Dichloropropene	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	Trichloroethene	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	Vinyl chloride	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	Xylene, o	1 U		1 U		1 U		1 U		1 U	
SW8260C	UG/L	Xylenes (m&p)	2 U		2 U		2 U		2 U		2 U	
SW8260C	UG/L	Xylenes, Total	3 U		3 U		3 U		3 U		3 U	
SW9060A	MG/L	Total Organic Carbon	3.6		120		50		110		3.8	

U = not detected, value is the detection limit

J = value is estimated

UG/L = microgram per liter

FS = Field Sample

FD = Field Duplicate

TB = Trip Blank

TABLE 4 - FINAL RESULTS SUMMARY
DATA VALIDATION REPORT
JULY 2018 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

SDG:	18071884	18071884	18071884	18071884	18071884
Location:	OW-05(35)	OW-05(54)	PM-2	PM-3	PM-3
Date Collected:	07/23/18	07/23/18	07/24/18	07/24/18	07/24/18
Field Sample ID:	ATR-OW5(35)-G072318	ATR-OW5(44)-G072318	ATR-PM2-G072418	ATR-PM-3-G072418	ATR-PM-3-G072418-R

Type:	FS	FS	FS	FS	FS	FS	FS	FS	FS	FD	FD	
Method	Unit	Parameter	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual

SW8260C	UG/L	1,1,1-Trichloroethane	1 U		1 U		1 U		50 U		50 U	
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	1 U		1 U		1 U		50 U		50 U	
SW8260C	UG/L	1,1,2-Trichloroethane	1 U		1 U		1 U		50 U		50 U	
SW8260C	UG/L	1,1-Dichloroethane	1 U		1 U		1 U		50 U		50 U	
SW8260C	UG/L	1,1-Dichloroethene	1 U		1 U		1 U		50 U		50 U	
SW8260C	UG/L	1,2-Dichloroethane	1 U		1 U		1 U		50 U		50 U	
SW8260C	UG/L	1,2-Dichloropropane	1 U		1 U		1 U		50 U		50 U	
SW8260C	UG/L	2-Butanone	5 U		12		25		250 U		250 U	
SW8260C	UG/L	2-Hexanone	5 U		5 U		5 U		250 U		250 U	
SW8260C	UG/L	4-Methyl-2-pentanone	1 U		1 U		1 U		50 U		50 U	
SW8260C	UG/L	Acetone	10 U		10 U		67		500 U		500 U	
SW8260C	UG/L	Benzene	1 U		1 U		1 U		50 U		50 U	
SW8260C	UG/L	Bromodichloromethane	1 U		1 U		1 U		50 U		50 U	
SW8260C	UG/L	Bromoform	1 U		1 U		1 U		50 U		50 U	
SW8260C	UG/L	Bromomethane	1 UJ		1 UJ		1 UJ		50 UJ		50 UJ	
SW8260C	UG/L	Carbon disulfide	1 U		1 U		1 U		50 U		50 U	
SW8260C	UG/L	Carbon tetrachloride	1 U		1 U		1 U		50 U		50 U	
SW8260C	UG/L	Chlorobenzene	1 U		1 U		1 U		50 U		50 U	
SW8260C	UG/L	Chloroethane	1 U		1 UJ		1 UJ		50 UJ		50 UJ	
SW8260C	UG/L	Chloroform	1 U		1 U		1 U		50 U		50 U	
SW8260C	UG/L	Chloromethane	1 U		1 U		1 U		50 UJ		50 UJ	
SW8260C	UG/L	Cis-1,2-Dichloroethene	1 U		1 U		1 U		2700		3000	
SW8260C	UG/L	Cis-1,3-Dichloropropene	1 U		1 U		1 U		50 U		50 U	
SW8260C	UG/L	Dibromochloromethane	1 U		1 U		1 U		50 U		50 U	
SW8260C	UG/L	Ethylbenzene	1 U		1 U		8.1		50 U		50 U	
SW8260C	UG/L	Methylene chloride	5 U		5 U		5 U		250 U		250 U	
SW8260C	UG/L	Styrene	1 U		1 U		1 U		50 U		50 U	
SW8260C	UG/L	Tetrachloroethene	1 U		1 U		1 U		50 U		50 U	

TABLE 4 - FINAL RESULTS SUMMARY
 DATA VALIDATION REPORT
 JULY 2018 GROUNDWATER SAMPLING
 TEXTRON FORMER TORX FACILITY
 ROCHESTER, INDIANA

SDG:	18071884	18071884	18071884	18071884	18071884
Location:	OW-05(35)	OW-05(54)	PM-2	PM-3	PM-3
Date Collected:	07/23/18	07/23/18	07/24/18	07/24/18	07/24/18
Field Sample ID:	ATR-OW5(35)-G072318	ATR-OW5(44)-G072318	ATR-PM2-G072418	ATR-PM-3-G072418	ATR-PM-3-G072418-R
Type:	FS	FS	FS	FS	FD

Method	Unit	Parameter	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual
SW8260C	UG/L	Toluene	1	U	1	U	9.8		50	U	50	U
SW8260C	UG/L	trans-1,2-Dichloroethene	1	U	1	U	1	U	50	U	50	U
SW8260C	UG/L	trans-1,3-Dichloropropene	1	U	1	U	1	U	50	U	50	U
SW8260C	UG/L	Trichloroethene	1	U	1	U	1	U	50	U	50	U
SW8260C	UG/L	Vinyl chloride	1	U	1	U	1	U	22000		19000	
SW8260C	UG/L	Xylene, o	1	U	1	U	2.9		50	U	50	U
SW8260C	UG/L	Xylenes (m&p)	2	U	2	U	13		100	U	100	U
SW8260C	UG/L	Xylenes, Total	3	U	3	U	16		150	U	150	U
SW9060A	MG/L	Total Organic Carbon	4.4		17		53		2100		2100	

U = not detected, value is the detection limit

J = value is estimated

UG/L = microgram per liter

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FD = Field Duplicate

TB = Trip Blank

TABLE 4 - FINAL RESULTS SUMMARY
 DATA VALIDATION REPORT
 JULY 2018 GROUNDWATER SAMPLING
 TEXTRON FORMER TORX FACILITY
 ROCHESTER, INDIANA

		SDG:	18071884	18071884	18071884	18071884	18071884					
		Location:	QC	QC	QC	QC	QC					
		Date Collected:	07/23/18	07/24/18	07/25/18	07/26/18	07/26/18					
		Field Sample ID:	ATR-MW15-G072318-EB	ATR-OW1(28)-G072418-EB	ATR-MW78(35)-G072518-EB	ATR-MW13-G072618-EB	ATR-072618-TB1					
		Type:	EB	EB	EB	EB	TB					
Method	Unit	Parameter	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual
SW8260C	UG/L	1,1,1-Trichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2-Trichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloropropane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	2-Butanone	5	U	5	U	5	U	5	U	5	U
SW8260C	UG/L	2-Hexanone	5	U	5	U	5	U	5	U	5	U
SW8260C	UG/L	4-Methyl-2-pentanone	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Acetone	10	U	10	U	10	U	10	U	10	U
SW8260C	UG/L	Benzene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromodichloromethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromoform	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromomethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon disulfide	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon tetrachloride	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chlorobenzene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroform	1	U	1	U	1.2		1	U	1	U
SW8260C	UG/L	Chloromethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Cis-1,2-Dichloroethene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Cis-1,3-Dichloropropene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Dibromochloromethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Ethylbenzene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Methylene chloride	5	U	5	U	5	U	5	U	5	U
SW8260C	UG/L	Styrene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Tetrachloroethene	1	U	1	U	1	U	1	U	1	U

TABLE 4 - FINAL RESULTS SUMMARY
 DATA VALIDATION REPORT
 JULY 2018 GROUNDWATER SAMPLING
 TEXTRON FORMER TORX FACILITY
 ROCHESTER, INDIANA

SDG:	18071884	18071884	18071884	18071884	18071884
Location:	QC	QC	QC	QC	QC
Date Collected:	07/23/18	07/24/18	07/25/18	07/26/18	07/26/18
Field Sample ID:	ATR-MW15-G072318-EB	ATR-OW1(28)-G072418-EB	ATR-MW78(35)-G072518-EB	ATR-MW13-G072618-EB	ATR-072618-TB1
Type:	EB	EB	EB	EB	TB

Method	Unit	Parameter	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual
SW8260C	UG/L	Toluene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,2-Dichloroethene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,3-Dichloropropene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Trichloroethene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Vinyl chloride	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylene, o	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylenes (m&p)	2	U	2	U	2	U	2	U	2	U
SW8260C	UG/L	Xylenes, Total	3	U	3	U	3	U	3	U	3	U
SW9060A	MG/L	Total Organic Carbon	0.52		0.6		5.2		24			

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UG/L = microgram per liter

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FD = Field Duplicate

TB = Trip Blank

TABLE 4 - FINAL RESULTS SUMMARY
 DATA VALIDATION REPORT
 JULY 2018 GROUNDWATER SAMPLING
 TEXTRON FORMER TORX FACILITY
 ROCHESTER, INDIANA

		SDG:	18071908	18071908	18071908	18071908	18071908					
		Location:	MW-11	MW-20(124)	MW-20(155)	MW-25(82)	MW-59(46)					
		Date Collected:	07/26/18	07/24/18	07/24/18	07/23/18	07/24/18					
		Field Sample ID:	ATR-MW11-G072618	ATR-MW20(124)-G072418	ATR-MW20(155)-G072418	ATR-MW25(82)-G072318	ATR-MW59(46)-G072418					
		Type:	FS	FS	FS	FS	FS					
Method	Unit	Parameter	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual
SW8260C	UG/L	1,1,1-Trichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2-Trichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloropropane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	2-Butanone	5	U	5	U	5	U	5	U	5	U
SW8260C	UG/L	2-Hexanone	5	U	5	U	5	U	5	U	5	U
SW8260C	UG/L	4-Methyl-2-pentanone	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Acetone	10	U	10	U	10	U	10	U	10	U
SW8260C	UG/L	Benzene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromodichloromethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromoform	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromomethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon disulfide	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon tetrachloride	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chlorobenzene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroform	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloromethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Cis-1,2-Dichloroethene	1	U	1	U	1	U	1.2		1	
SW8260C	UG/L	Cis-1,3-Dichloropropene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Dibromochloromethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Ethylbenzene	1	U	1	U	1	U	1	U	2.8	
SW8260C	UG/L	Methylene chloride	5	U	5	U	5	U	5	U	5	U
SW8260C	UG/L	Styrene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Tetrachloroethene	1	U	1	U	1	U	1	U	1	U

TABLE 4 - FINAL RESULTS SUMMARY
 DATA VALIDATION REPORT
 JULY 2018 GROUNDWATER SAMPLING
 TEXTRON FORMER TORX FACILITY
 ROCHESTER, INDIANA

SDG:	18071908	18071908	18071908	18071908	18071908
Location:	MW-11	MW-20(124)	MW-20(155)	MW-25(82)	MW-59(46)
Date Collected:	07/26/18	07/24/18	07/24/18	07/23/18	07/24/18
Field Sample ID:	ATR-MW11-G072618	ATR-MW20(124)-G072418	ATR-MW20(155)-G072418	ATR-MW25(82)-G072318	ATR-MW59(46)-G072418
Type:	FS	FS	FS	FS	FS

Method	Unit	Parameter	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual
SW8260C	UG/L	Toluene	1	U	1	U	1	U	1	U	4.5	
SW8260C	UG/L	trans-1,2-Dichloroethene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,3-Dichloropropene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Trichloroethene	2.4	J	1	U	1	U	1	U	1	U
SW8260C	UG/L	Vinyl chloride	1	U	1	U	1	U	2.5		7.7	
SW8260C	UG/L	Xylene, o	1	U	1	U	1	U	1	U	1.7	
SW8260C	UG/L	Xylenes (m&p)	2	U	2	U	2	U	2	U	3.4	
SW8260C	UG/L	Xylenes, Total	3	U	3	U	3	U	3	U	5.1	
SW9060A	MG/L	Total Organic Carbon										

U = not detected, value is the detection limit

J = value is estimated

UG/L = microgram per liter

FS = Field Sample

FD = Field Duplicate

TB = Trip Blank

TABLE 4 - FINAL RESULTS SUMMARY
DATA VALIDATION REPORT
JULY 2018 GROUNDWATER SAMPLING
TEXTRON FORMER TORX FACILITY
ROCHESTER, INDIANA

		SDG:	18071908	18071908	18071908	18071908	18071908					
		Location:	MW-65(32)	MW-75(32)	MW-79(30)	MW-83(64)	MW-84(65)					
		Date Collected:	07/25/18	07/25/18	07/25/18	07/23/18	07/23/18					
		Field Sample ID:	ATR-MW65(32)-G072518	ATR-MW75(32)-G072518	ATR-MW79(30)-G072518	ATR-MW83(64)-G072318	ATR-MW84(65)-G072318					
		Type:	FS	FS	FS	FS	FS					
Method	Unit	Parameter	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual
SW8260C	UG/L	1,1,1-Trichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1,2-Trichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,1-Dichloroethene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	1,2-Dichloropropane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	2-Butanone	5	U	5	U	5	U	5	U	5	U
SW8260C	UG/L	2-Hexanone	5	U	5	U	5	U	5	U	5	U
SW8260C	UG/L	4-Methyl-2-pentanone	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Acetone	10	U	10	U	10	U	10	U	10	U
SW8260C	UG/L	Benzene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromodichloromethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromoform	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Bromomethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon disulfide	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Carbon tetrachloride	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chlorobenzene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloroform	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Chloromethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Cis-1,2-Dichloroethene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Cis-1,3-Dichloropropene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Dibromochloromethane	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Ethylbenzene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Methylene chloride	5	U	5	U	5	U	5	U	5	U
SW8260C	UG/L	Styrene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Tetrachloroethene	1	U	1	U	1	U	1	U	1	U

TABLE 4 - FINAL RESULTS SUMMARY
 DATA VALIDATION REPORT
 JULY 2018 GROUNDWATER SAMPLING
 TEXTRON FORMER TORX FACILITY
 ROCHESTER, INDIANA

SDG:	18071908	18071908	18071908	18071908	18071908
Location:	MW-65(32)	MW-75(32)	MW-79(30)	MW-83(64)	MW-84(65)
Date Collected:	07/25/18	07/25/18	07/25/18	07/23/18	07/23/18
Field Sample ID:	ATR-MW65(32)-G072518	ATR-MW75(32)-G072518	ATR-MW79(30)-G072518	ATR-MW83(64)-G072318	ATR-MW84(65)-G072318

Method	Unit	Parameter	Type: FS		FS		FS		FS		FS	
			Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual	Final Result	Final Qual
SW8260C	UG/L	Toluene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,2-Dichloroethene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	trans-1,3-Dichloropropene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Trichloroethene	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Vinyl chloride	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylene, o	1	U	1	U	1	U	1	U	1	U
SW8260C	UG/L	Xylenes (m&p)	2	U	2	U	2	U	2	U	2	U
SW8260C	UG/L	Xylenes, Total	3	U	3	U	3	U	3	U	3	U
SW9060A	MG/L	Total Organic Carbon										

U = not detected, value is the detection limit

J = value is estimated

UG/L = microgram per liter

FS = Field Sample

FD = Field Duplicate

TB = Trip Blank

TABLE 4 - FINAL RESULTS SUMMARY
 DATA VALIDATION REPORT
 JULY 2018 GROUNDWATER SAMPLING
 TEXTRON FORMER TORX FACILITY
 ROCHESTER, INDIANA

SDG: 18071908
Location: MW-89(28)
Date Collected: 07/24/18
Field Sample ID: ATR-MW89(28)-G072418
Type: FS

Method	Unit	Parameter	Final Result	Final Qual
SW8260C	UG/L	1,1,1-Trichloroethane	1	U
SW8260C	UG/L	1,1,2,2-Tetrachloroethane	1	U
SW8260C	UG/L	1,1,2-Trichloroethane	1	U
SW8260C	UG/L	1,1-Dichloroethane	1	U
SW8260C	UG/L	1,1-Dichloroethene	1	U
SW8260C	UG/L	1,2-Dichloroethane	1	U
SW8260C	UG/L	1,2-Dichloropropane	1	U
SW8260C	UG/L	2-Butanone	5	U
SW8260C	UG/L	2-Hexanone	5	U
SW8260C	UG/L	4-Methyl-2-pentanone	1	U
SW8260C	UG/L	Acetone	10	U
SW8260C	UG/L	Benzene	1	U
SW8260C	UG/L	Bromodichloromethane	1	U
SW8260C	UG/L	Bromoform	1	U
SW8260C	UG/L	Bromomethane	1	U
SW8260C	UG/L	Carbon disulfide	1	U
SW8260C	UG/L	Carbon tetrachloride	1	U
SW8260C	UG/L	Chlorobenzene	1	U
SW8260C	UG/L	Chloroethane	1	U
SW8260C	UG/L	Chloroform	1	U
SW8260C	UG/L	Chloromethane	1	U
SW8260C	UG/L	Cis-1,2-Dichloroethene	1	U
SW8260C	UG/L	Cis-1,3-Dichloropropene	1	U
SW8260C	UG/L	Dibromochloromethane	1	U
SW8260C	UG/L	Ethylbenzene	1	U
SW8260C	UG/L	Methylene chloride	5	U
SW8260C	UG/L	Styrene	1	U
SW8260C	UG/L	Tetrachloroethene	1	U

TABLE 4 - FINAL RESULTS SUMMARY
 DATA VALIDATION REPORT
 JULY 2018 GROUNDWATER SAMPLING
 TEXTRON FORMER TORX FACILITY
 ROCHESTER, INDIANA

SDG: 18071908
Location: MW-89(28)
Date Collected: 07/24/18
Field Sample ID: ATR-MW89(28)-G072418
Type: FS

Method	Unit	Parameter	Final Result	Final Qual
SW8260C	UG/L	Toluene	1	U
SW8260C	UG/L	trans-1,2-Dichloroethene	1	U
SW8260C	UG/L	trans-1,3-Dichloropropene	1	U
SW8260C	UG/L	Trichloroethene	1	U
SW8260C	UG/L	Vinyl chloride	1	U
SW8260C	UG/L	Xylene, o	1	U
SW8260C	UG/L	Xylenes (m&p)	2	U
SW8260C	UG/L	Xylenes, Total	3	U
SW9060A	MG/L	Total Organic Carbon		

U = not detected, value is the detection limit

J = value is estimated

UG/L = microgram per liter

FS = Field Sample

FD = Field Duplicate

TB = Trip Blank

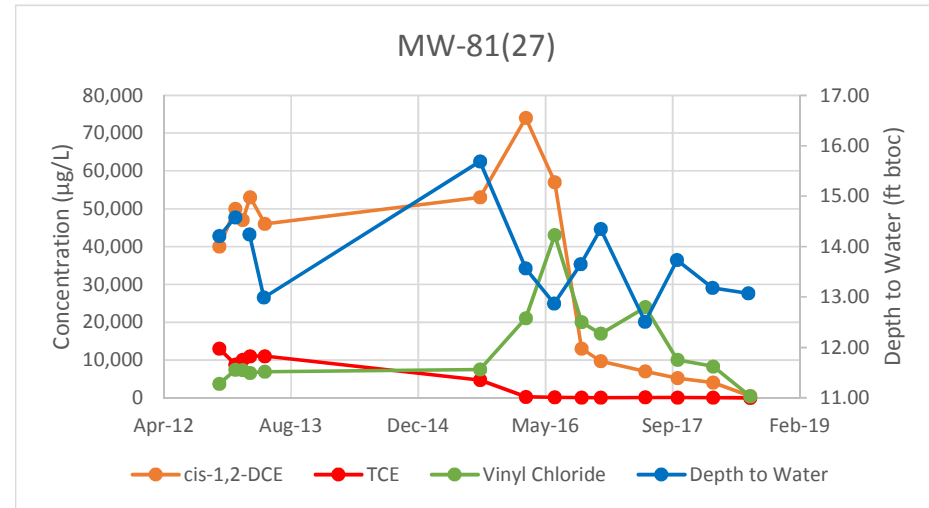


Textron, Inc.
TORX Facility Remediation
Report of Performance Monitoring

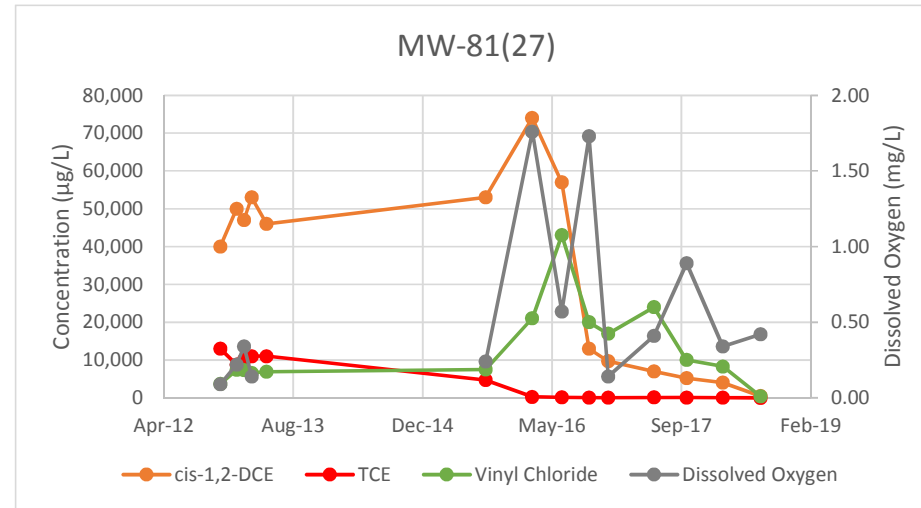
APPENDIX C

TREND EVALUATION CHARTS AND FIGURES

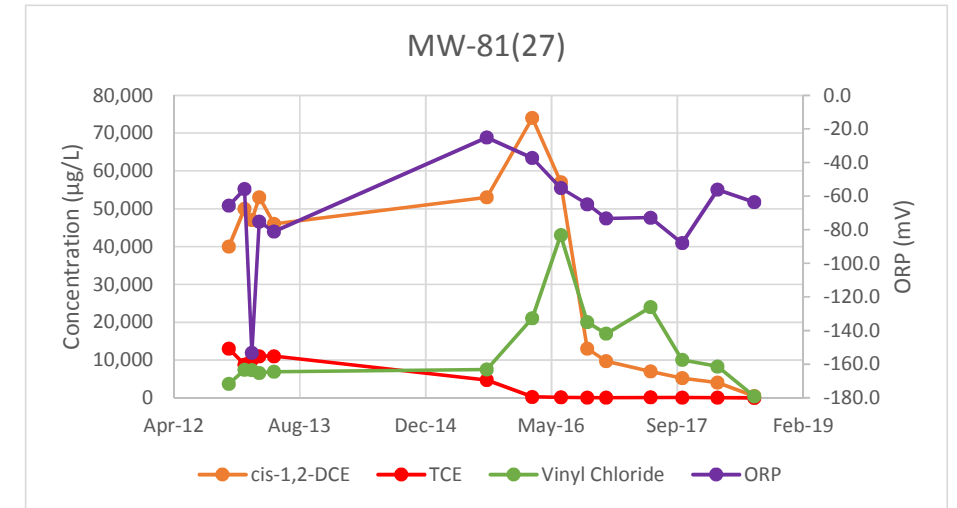
CVOC Concentrations and Depth to Water



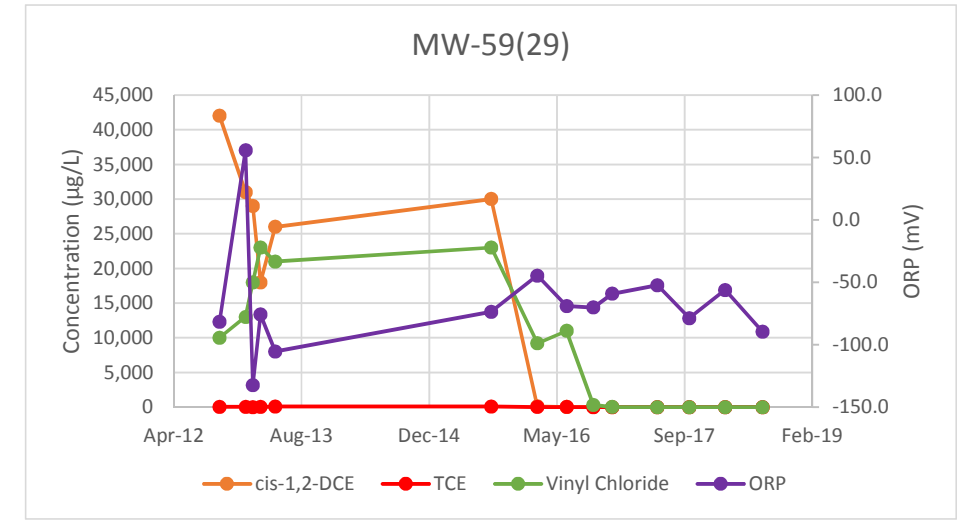
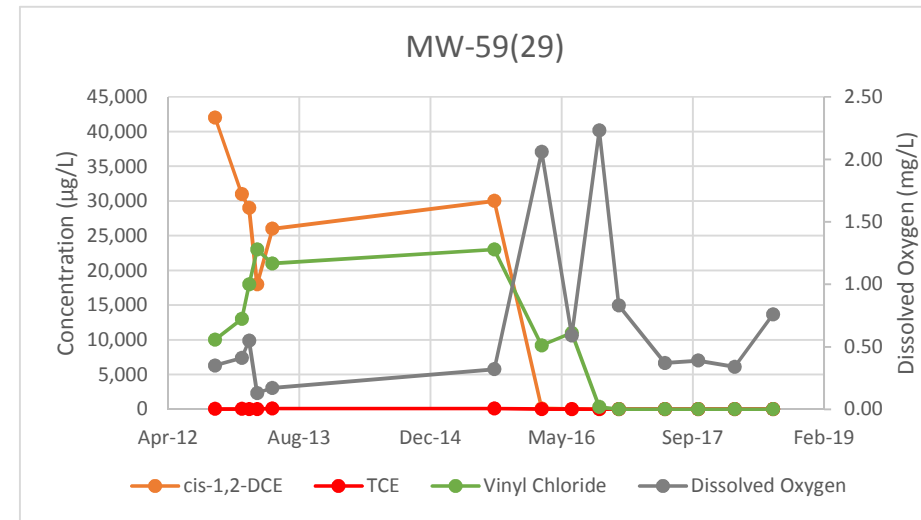
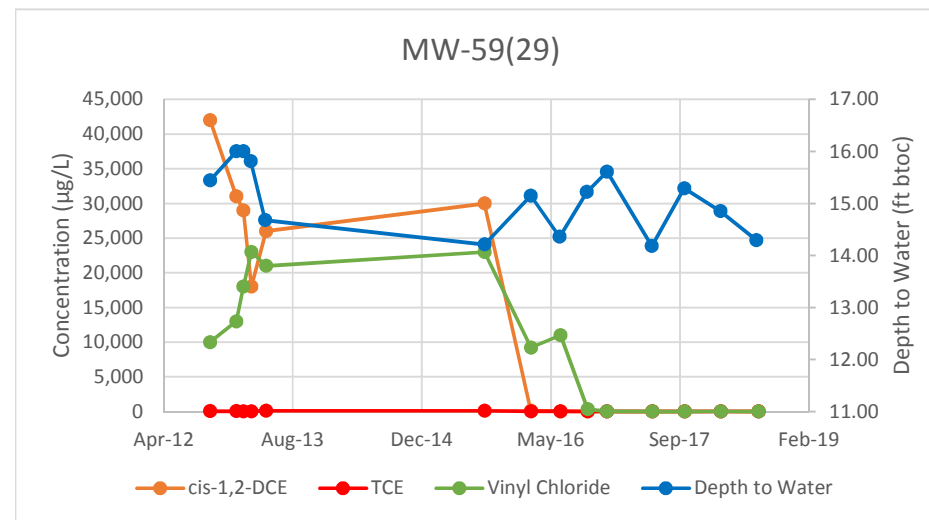
CVOC Concentrations and Dissolved Oxygen



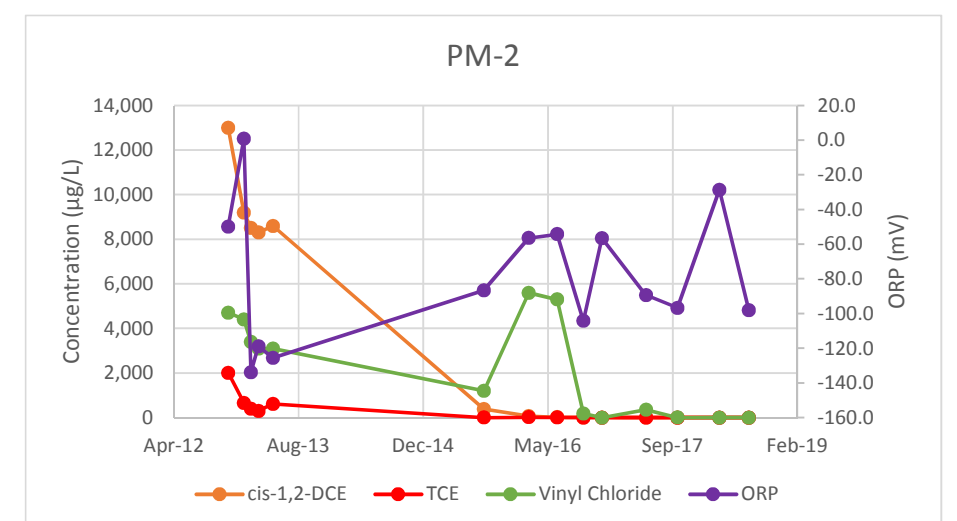
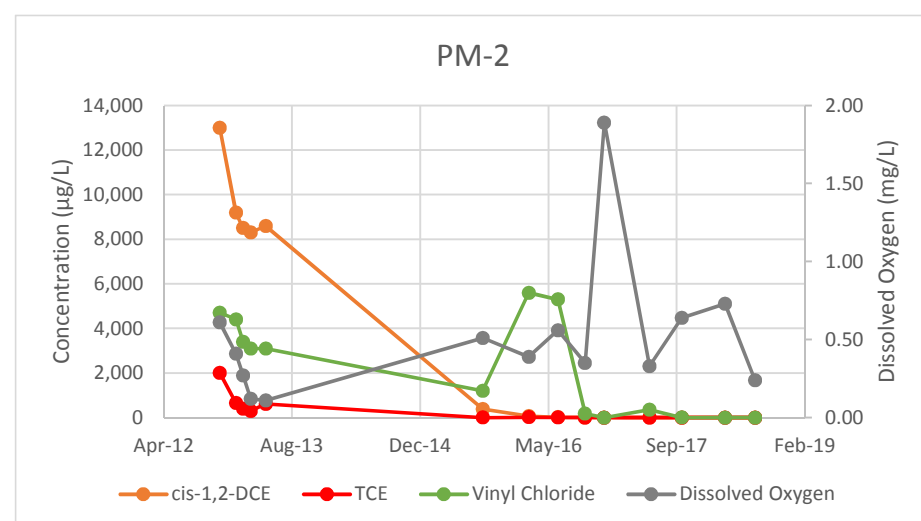
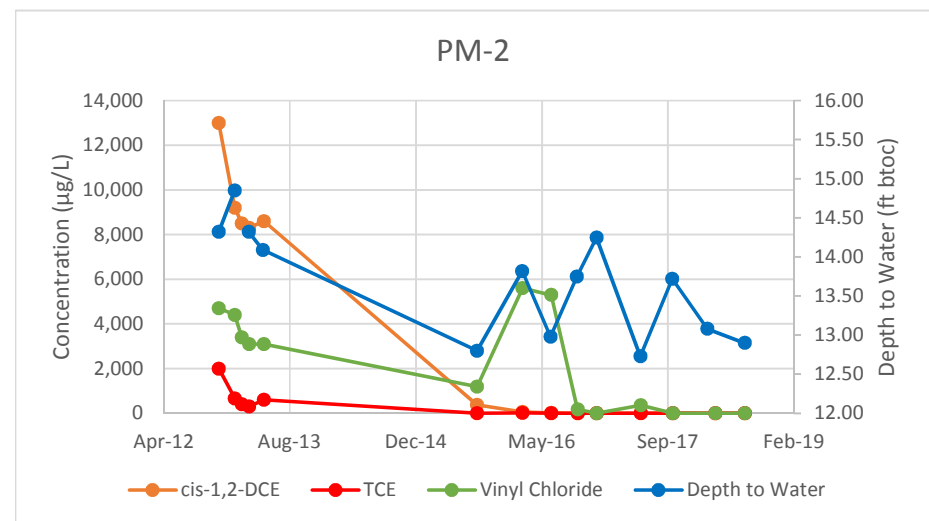
CVOC Concentrations and ORP



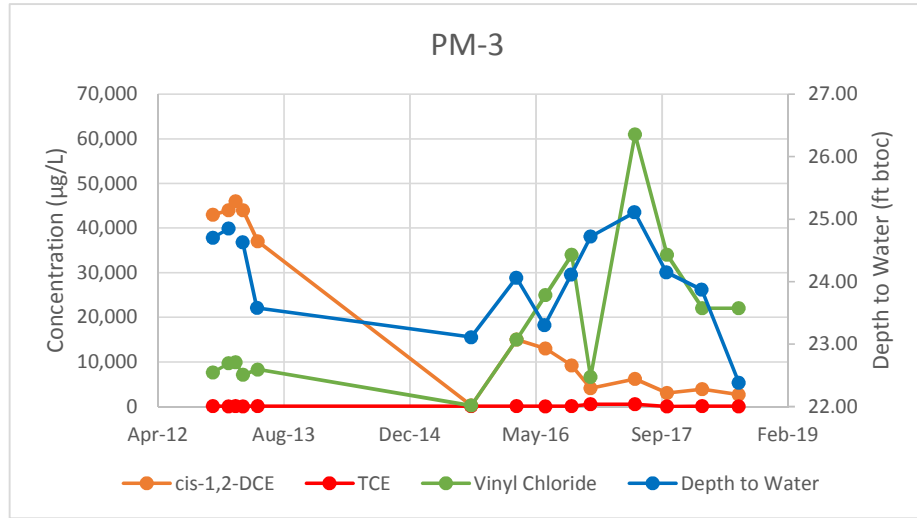
MW-59(29)



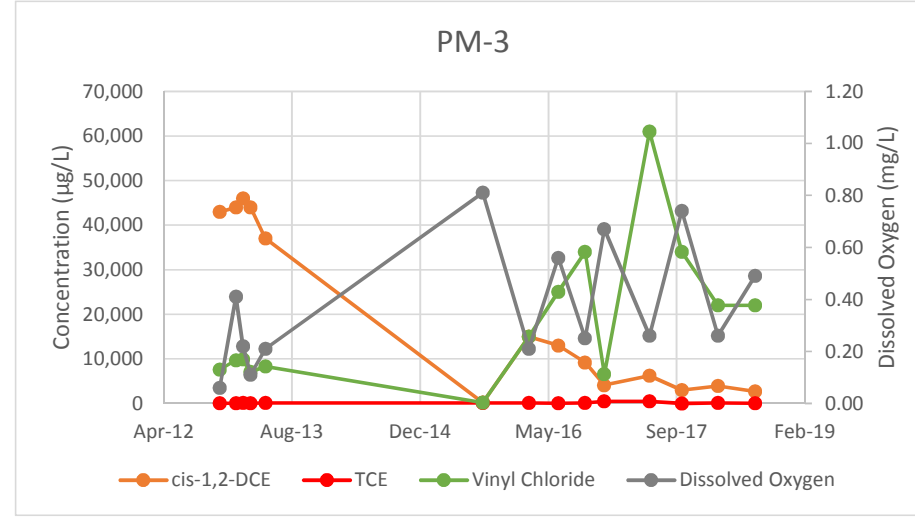
PM-2



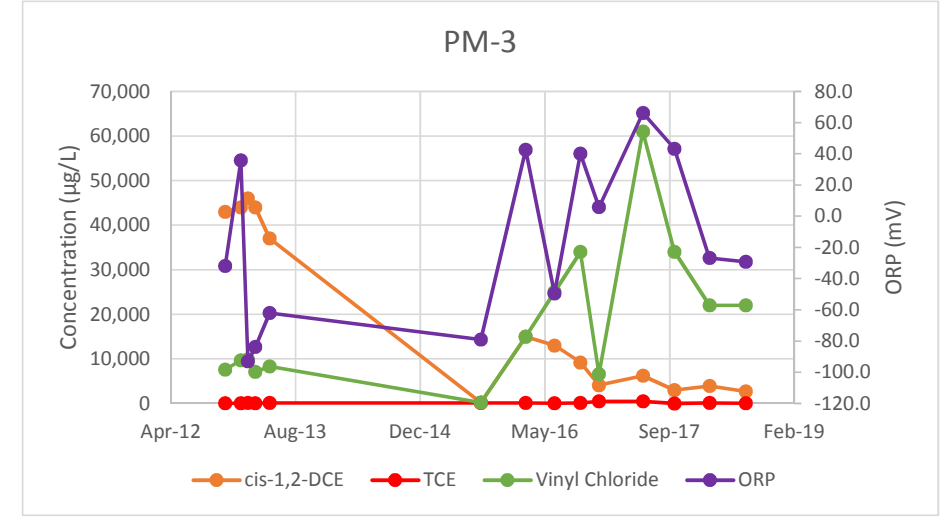
CVOC Concentrations and Depth to Water



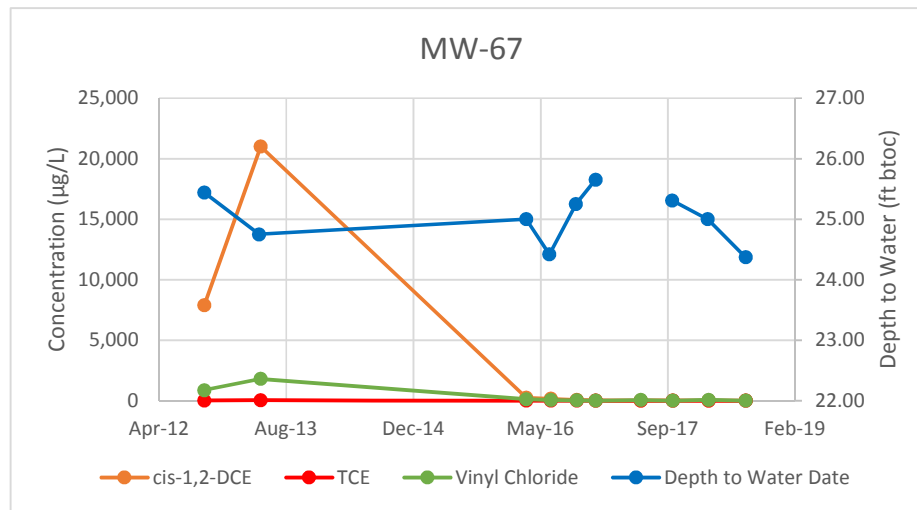
CVOC Concentrations and Dissolved Oxygen



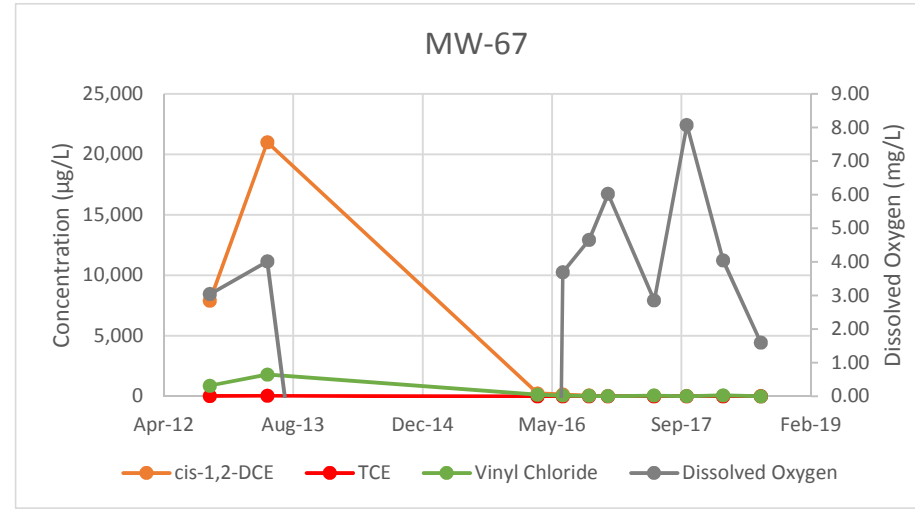
CVOC Concentrations and ORP



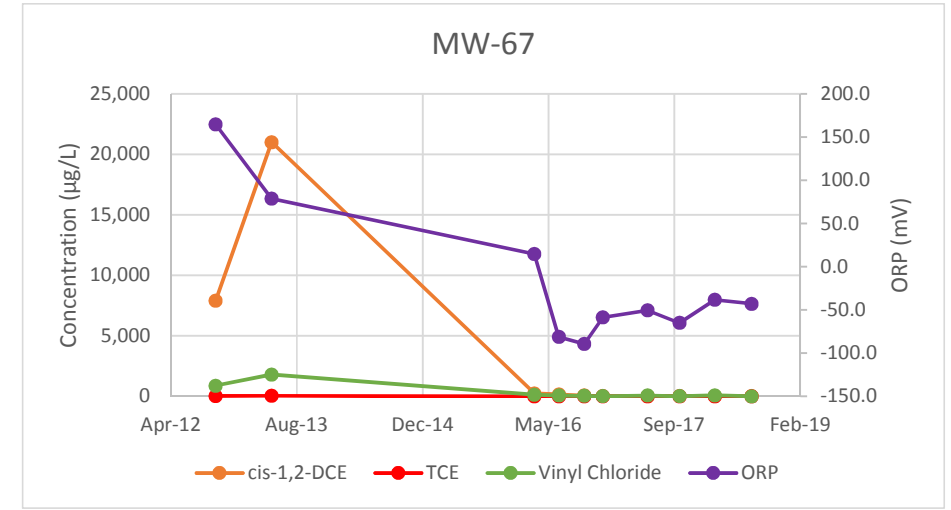
MW-67



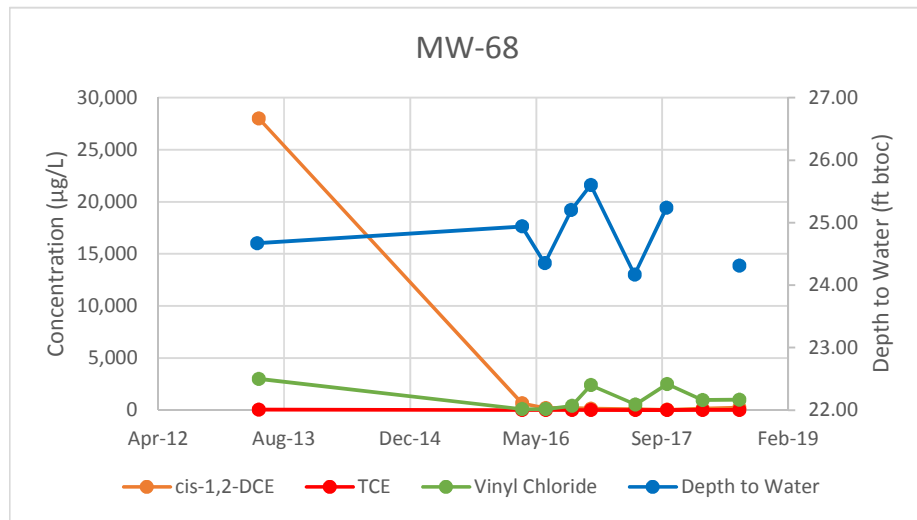
MW-67



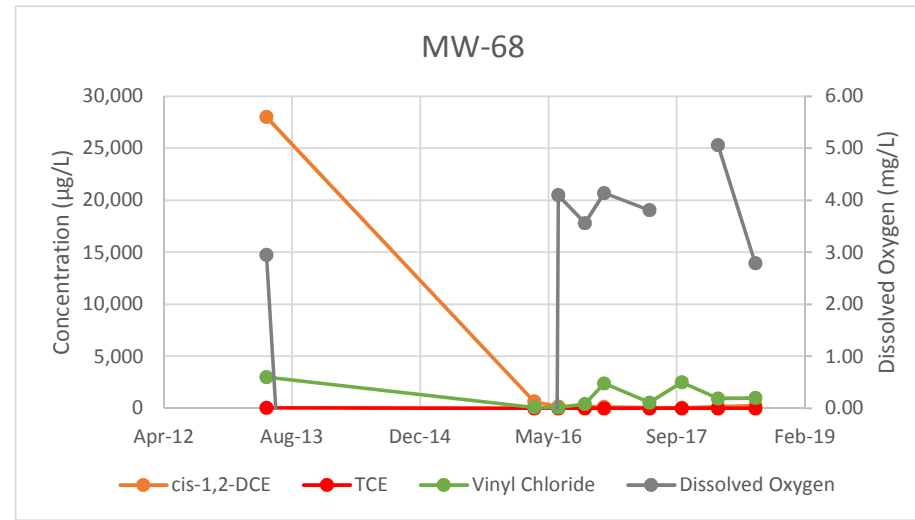
MW-67



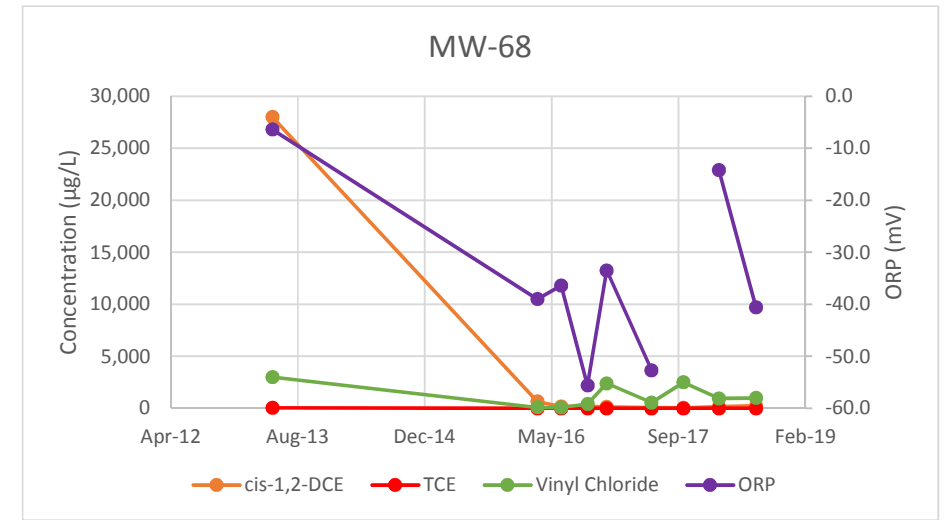
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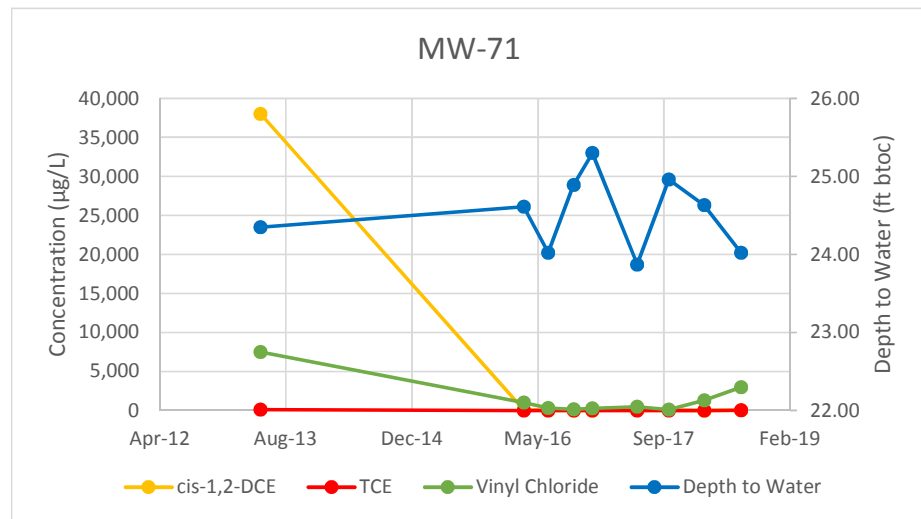
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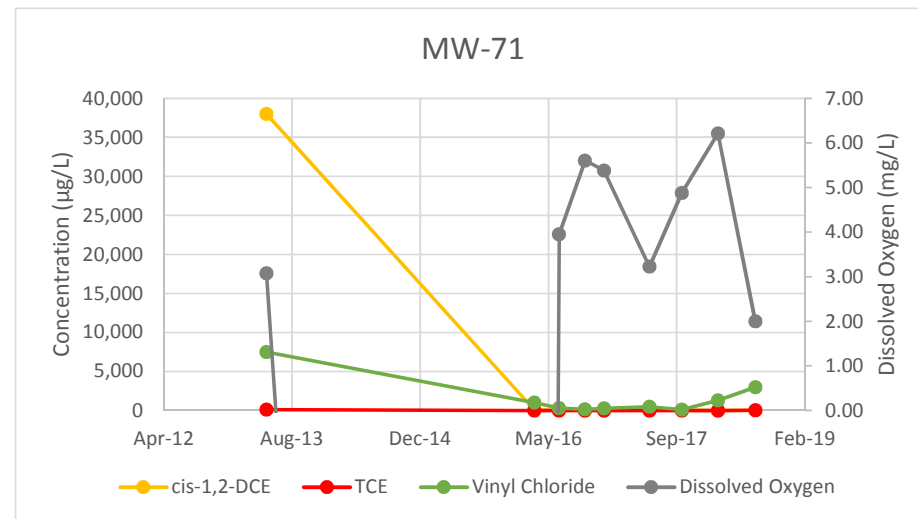
MW-68



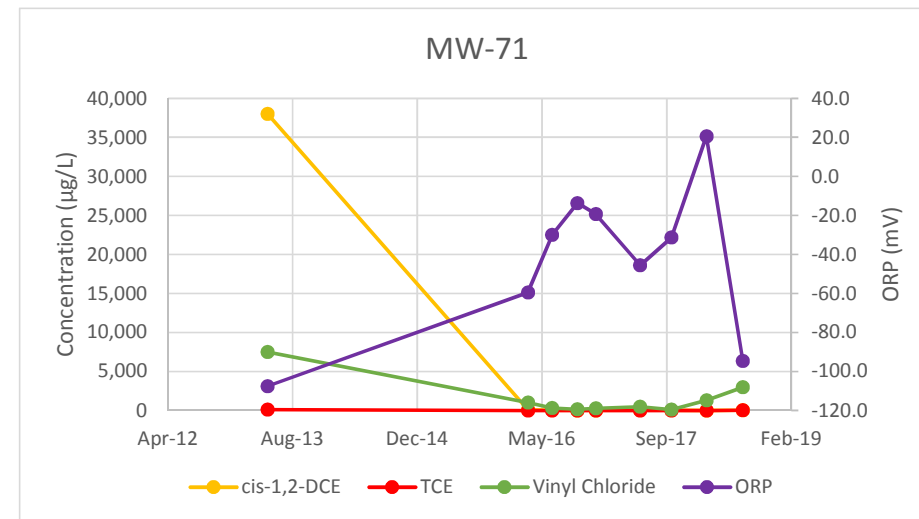
CVOC Concentrations and Depth to Water



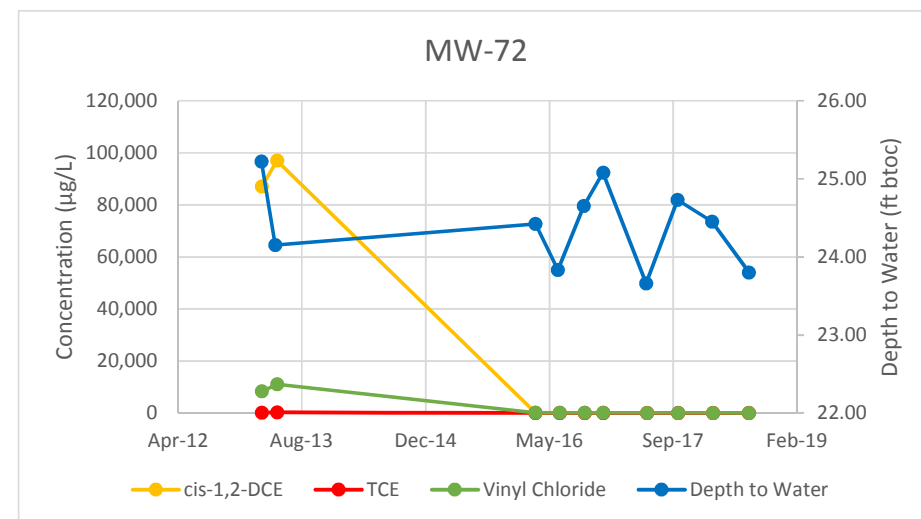
CVOC Concentrations and Dissolved Oxygen



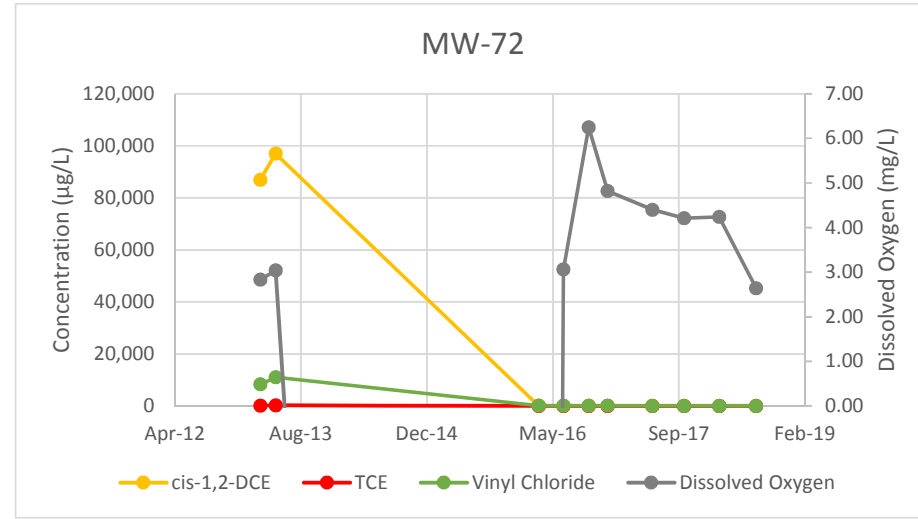
CVOC Concentrations and ORP



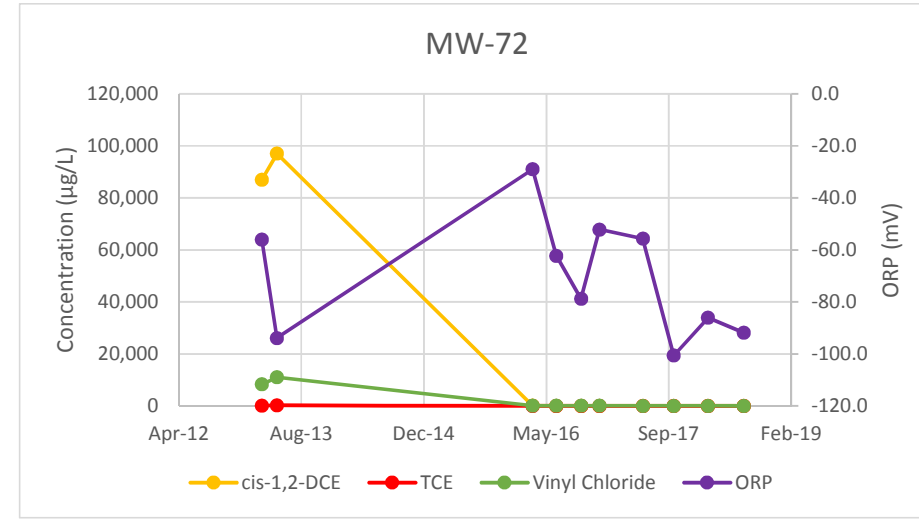
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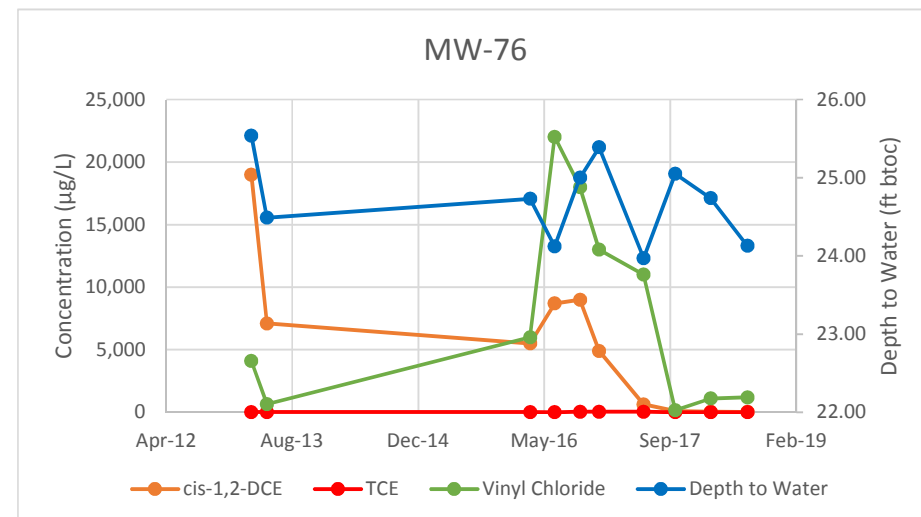
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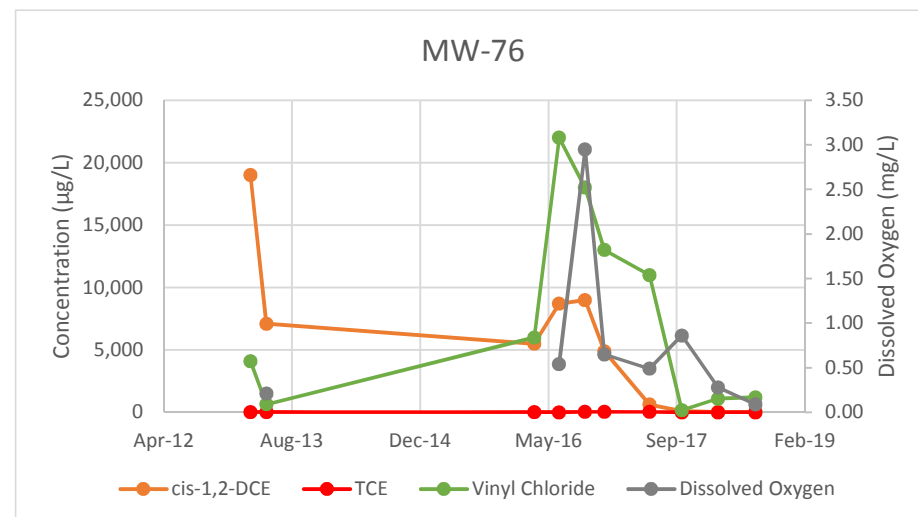
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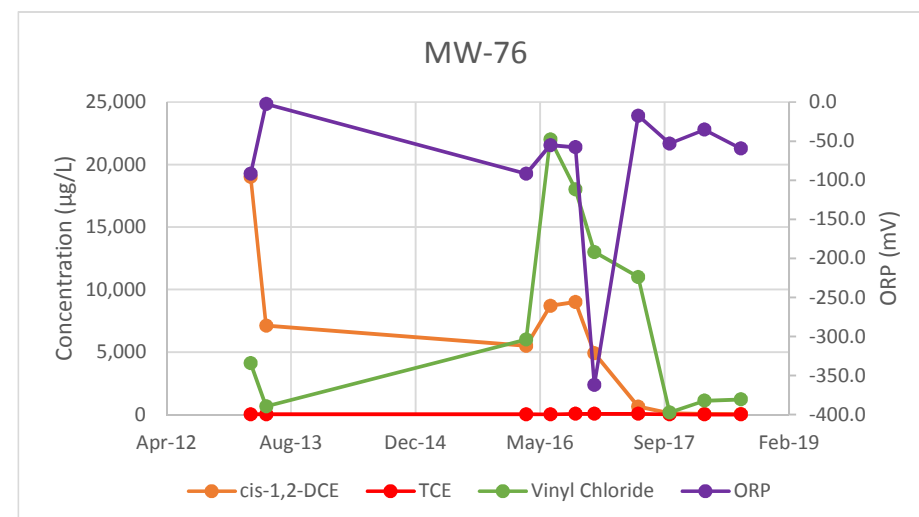
MW-76



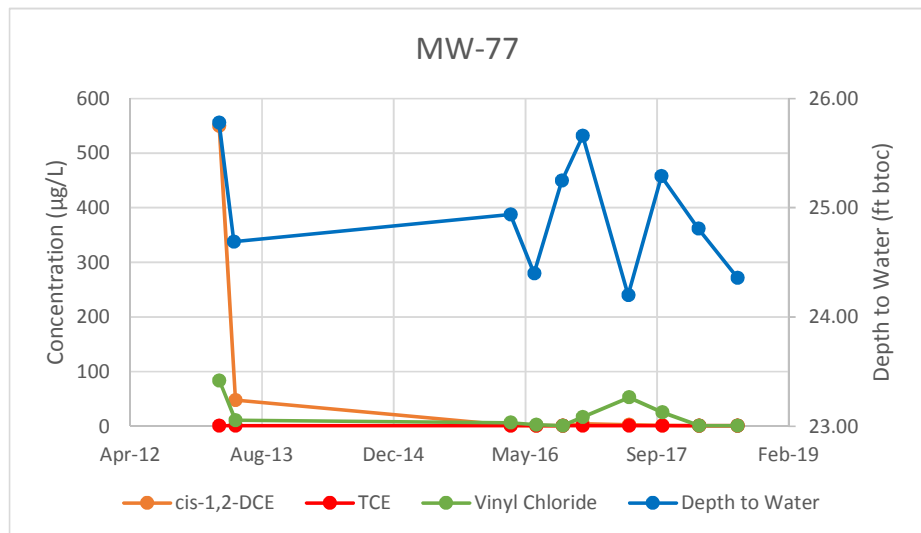
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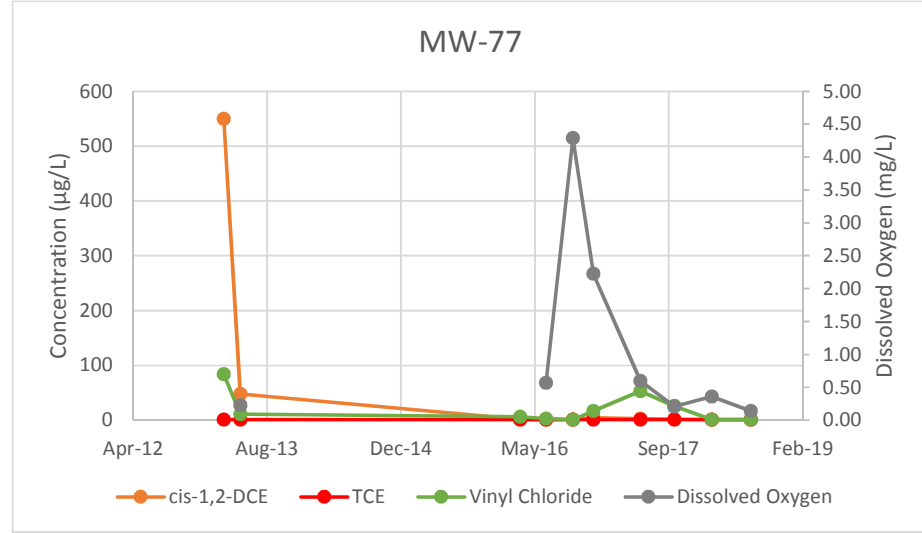
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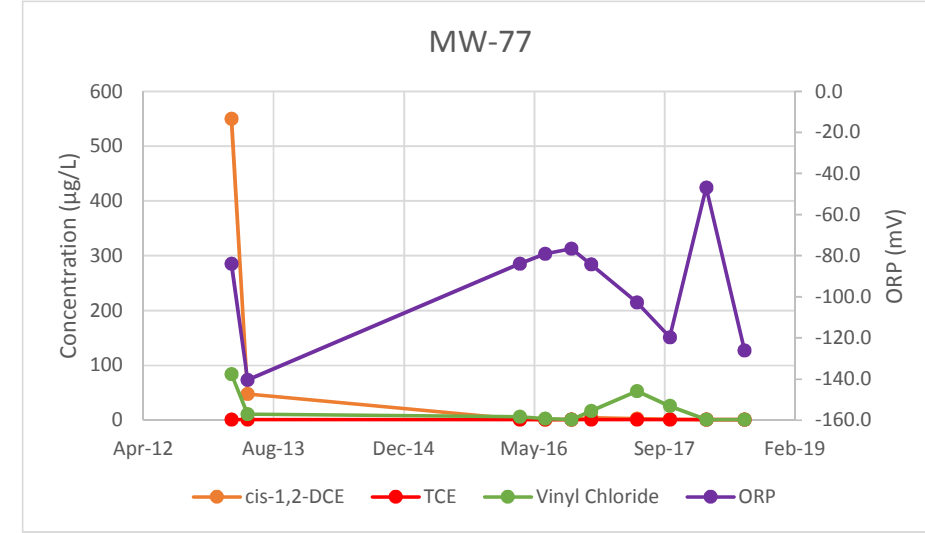
CVOC Concentrations and Depth to Water



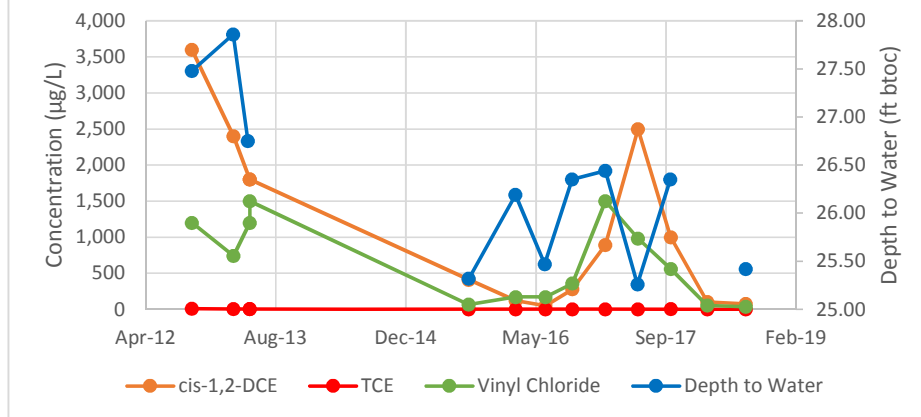
CVOC Concentrations and Dissolved Oxygen



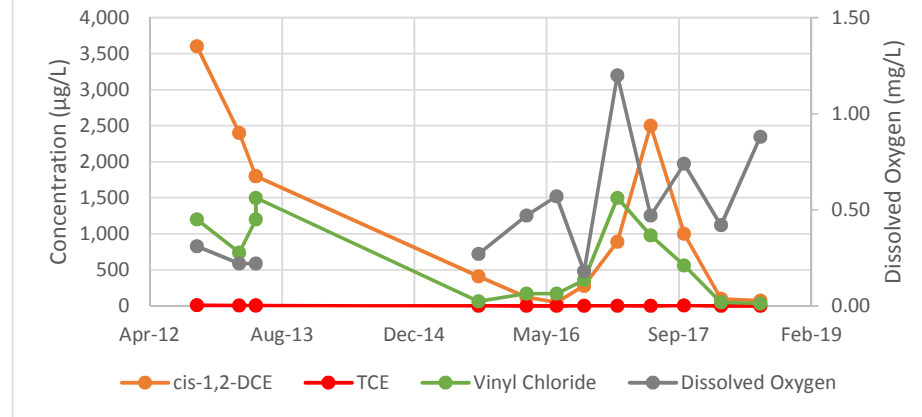
CVOC Concentrations and ORP



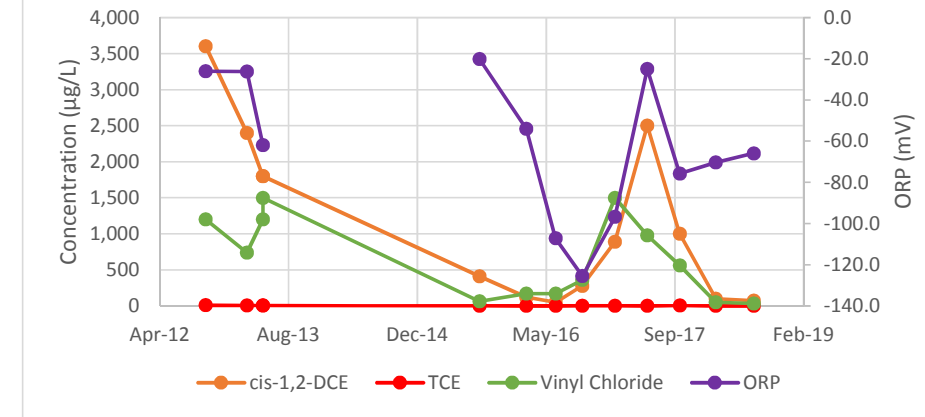
MW-6C



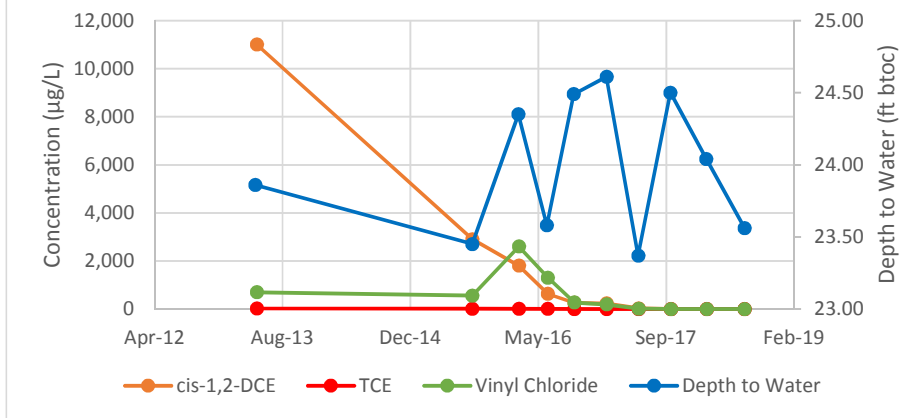
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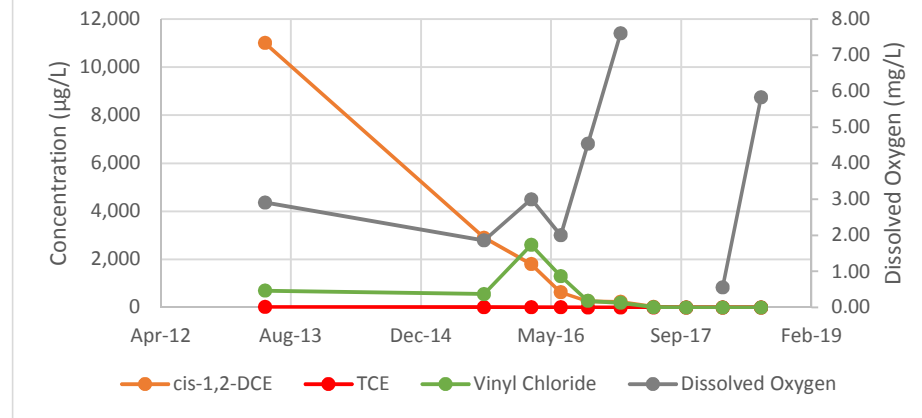
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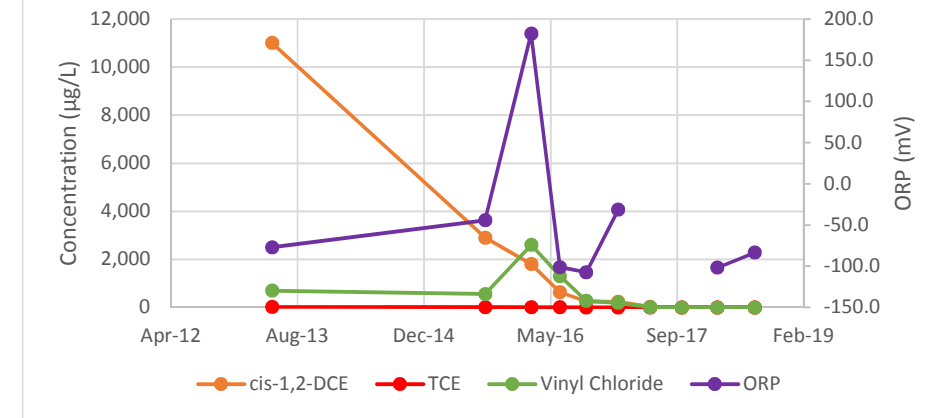
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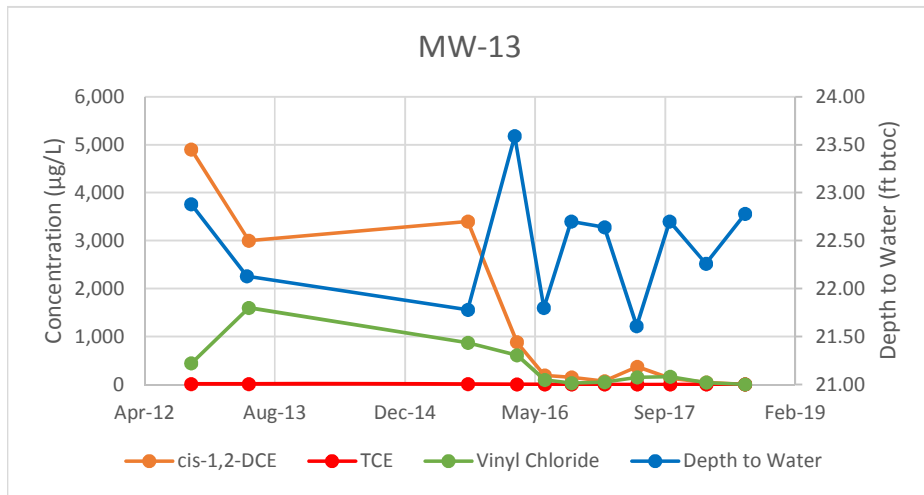
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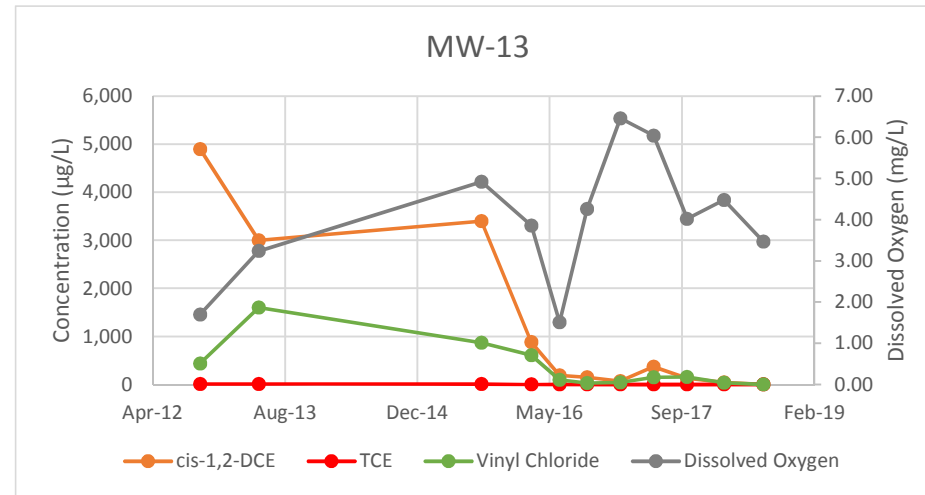
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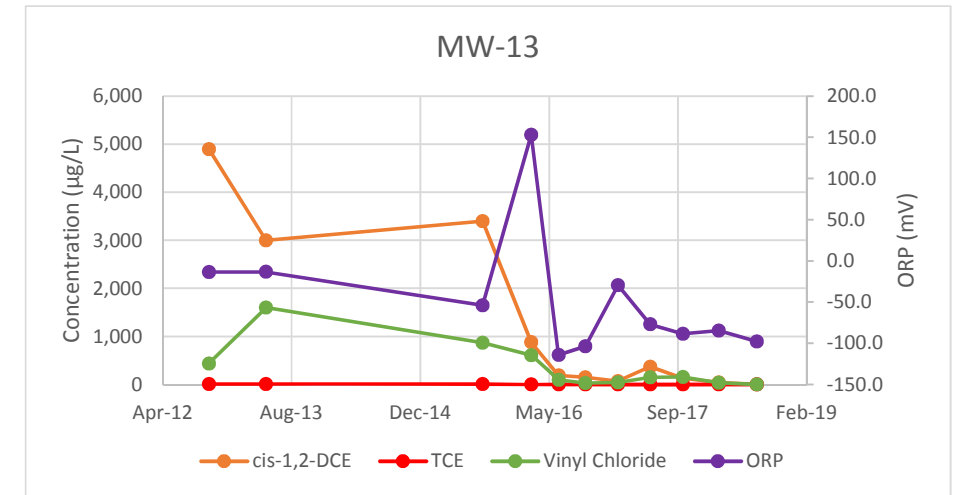
CVOC Concentrations and Depth to Water



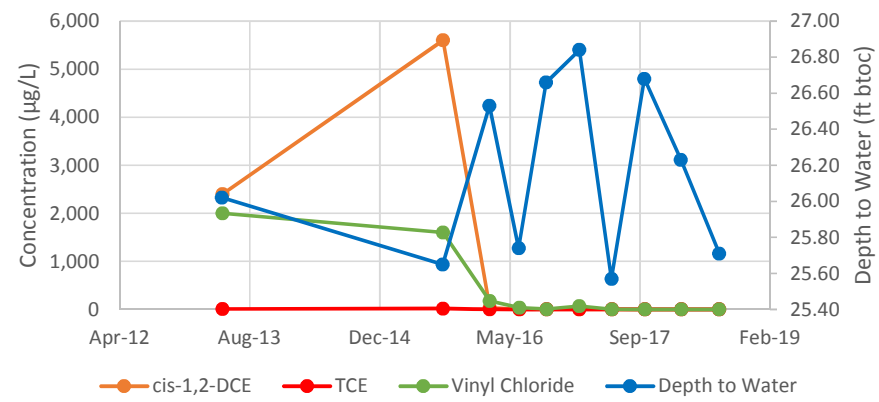
CVOC Concentrations and Dissolved Oxygen



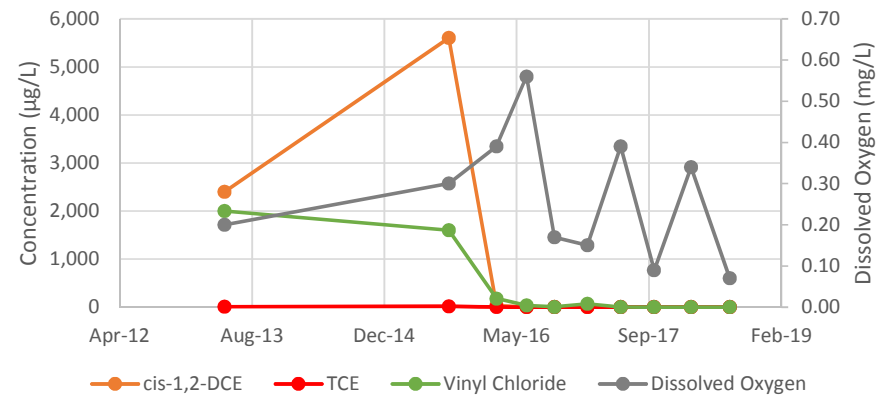
CVOC Concentrations and ORP



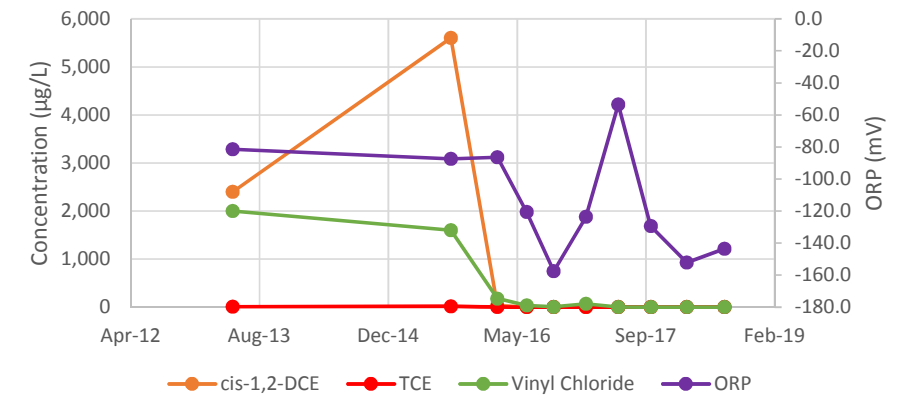
MW-62



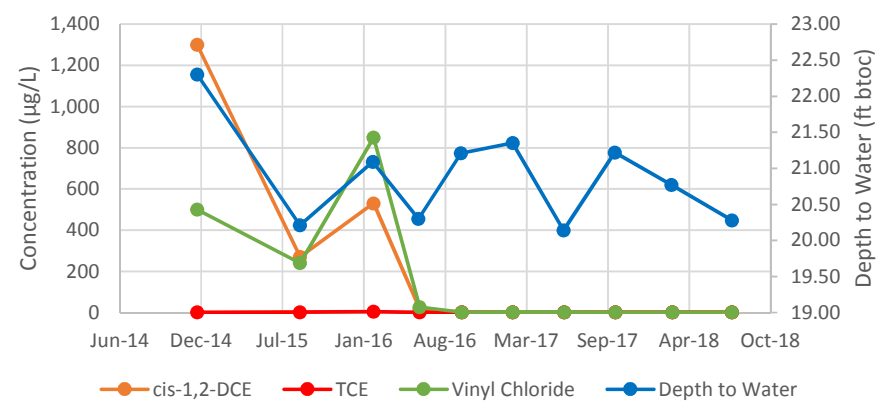
MW-62



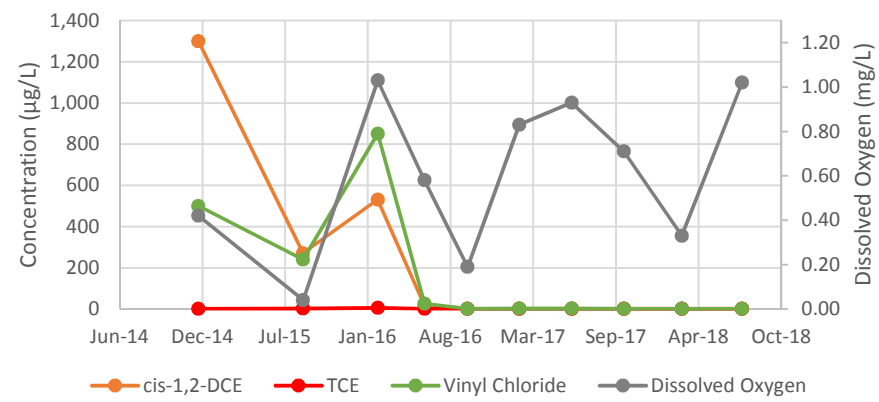
MW-62



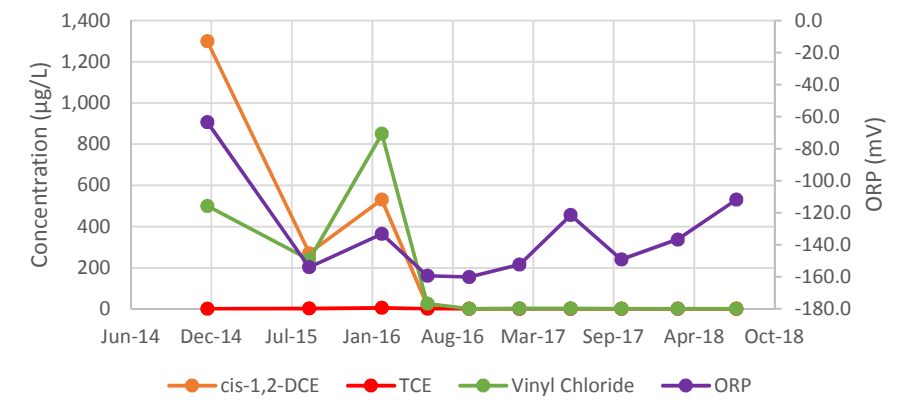
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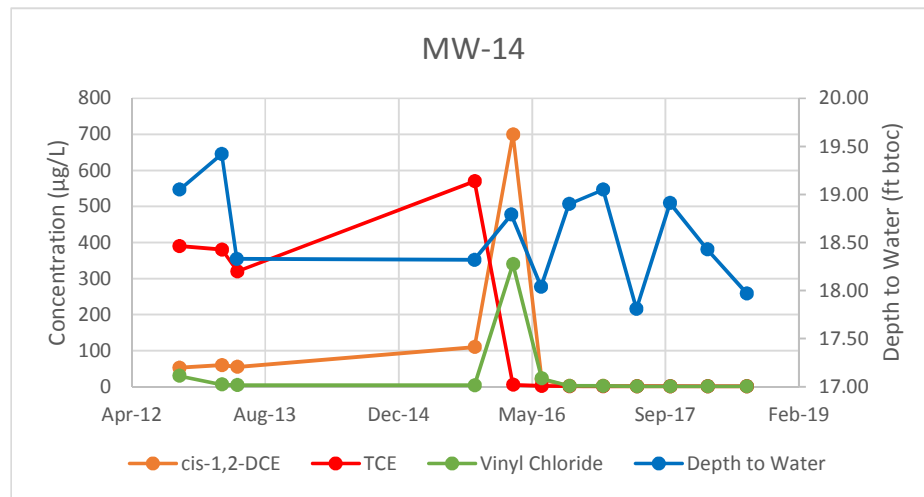
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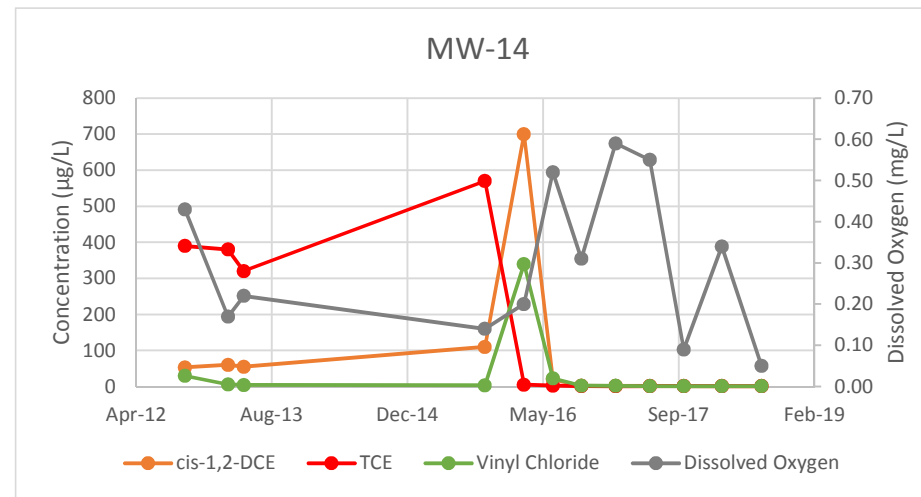
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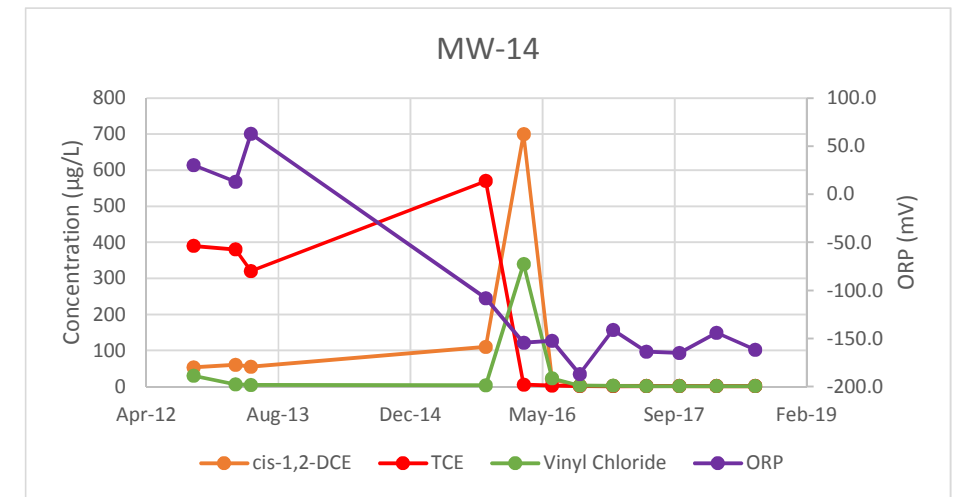
CVOC Concentrations and Depth to Water



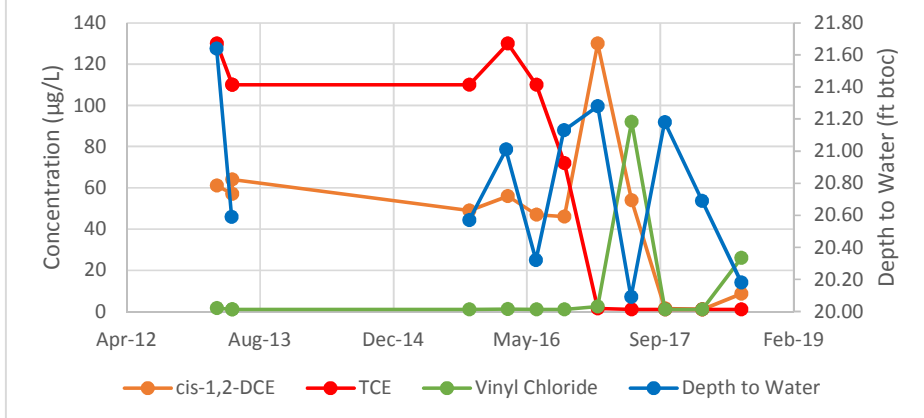
CVOC Concentrations and Dissolved Oxygen



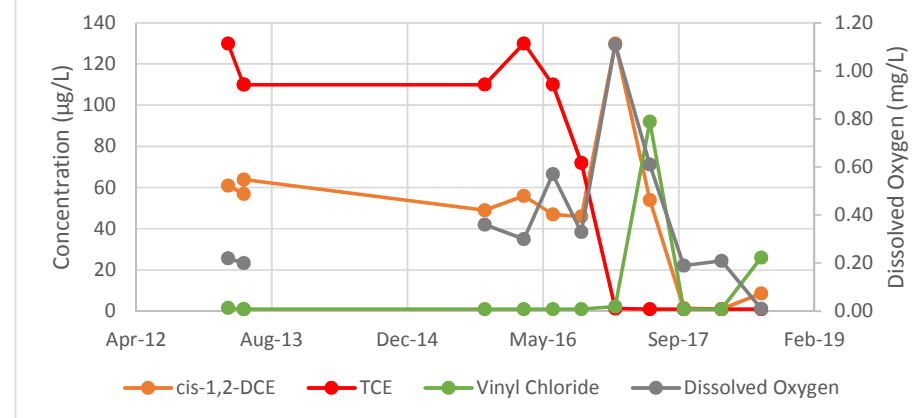
CVOC Concentrations and ORP



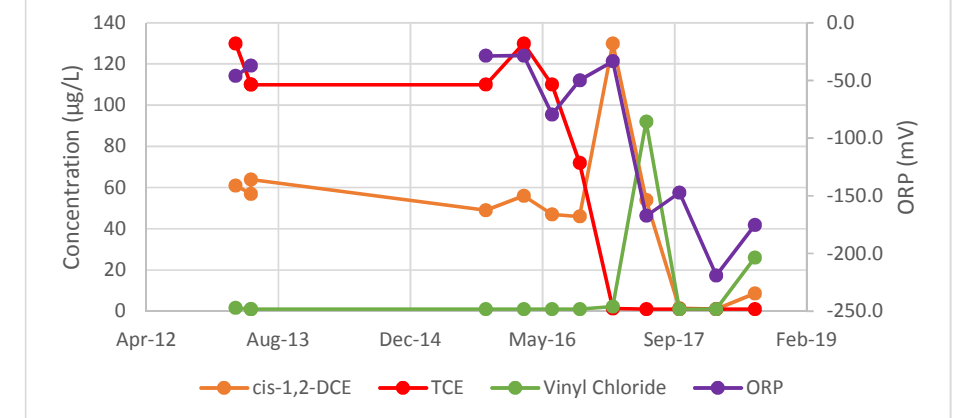
MW-24(55.4)



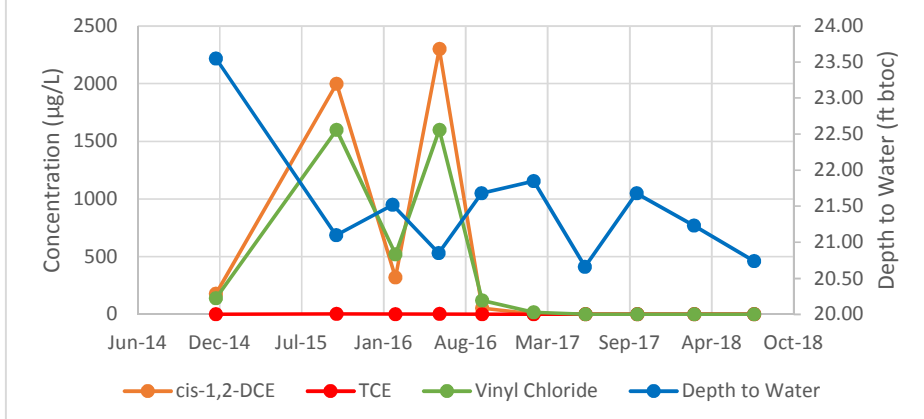
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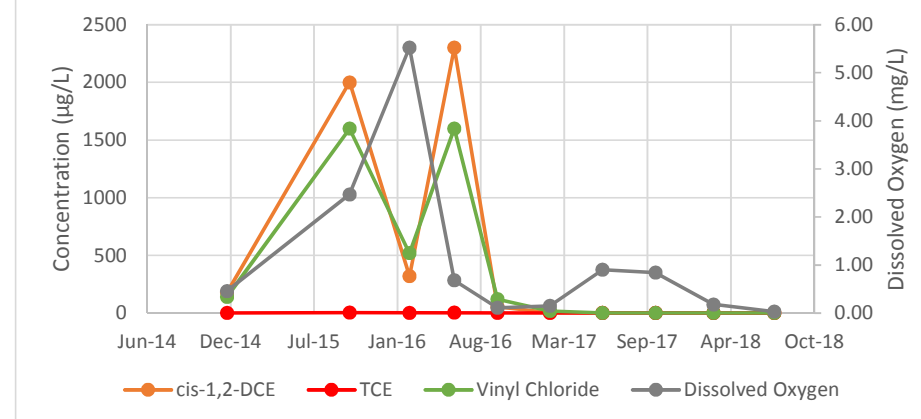
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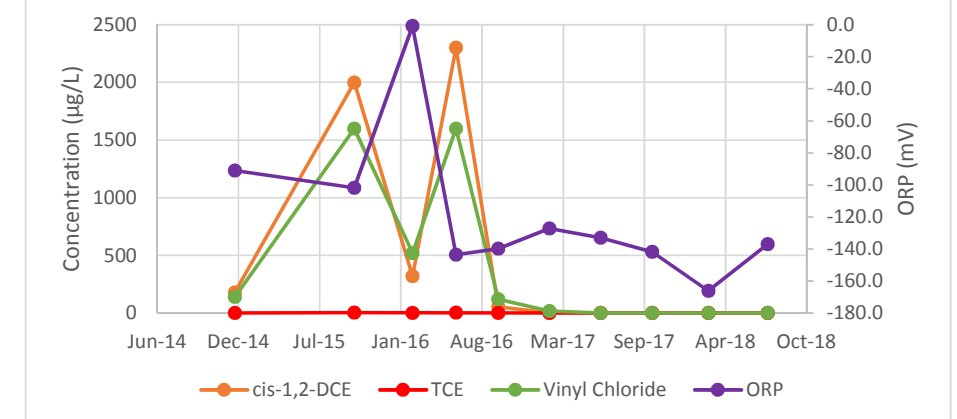
OW-2(33)



OW-2(33)



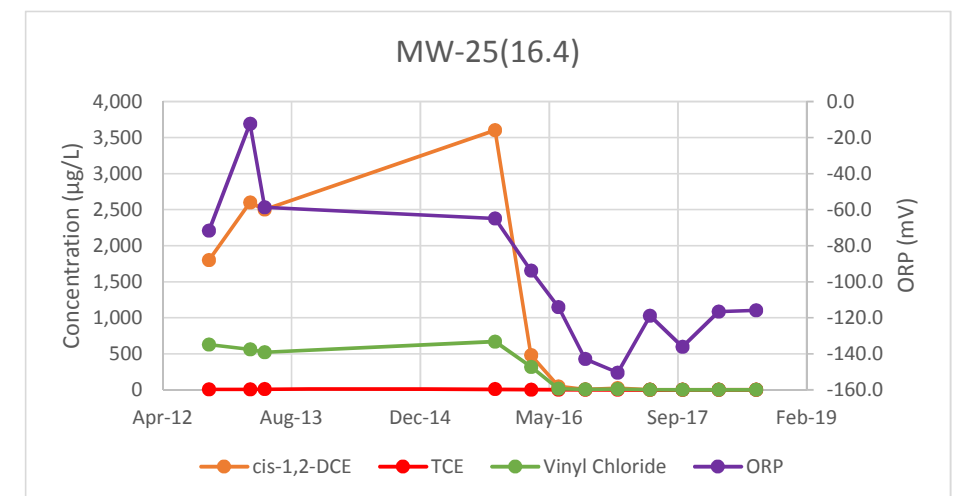
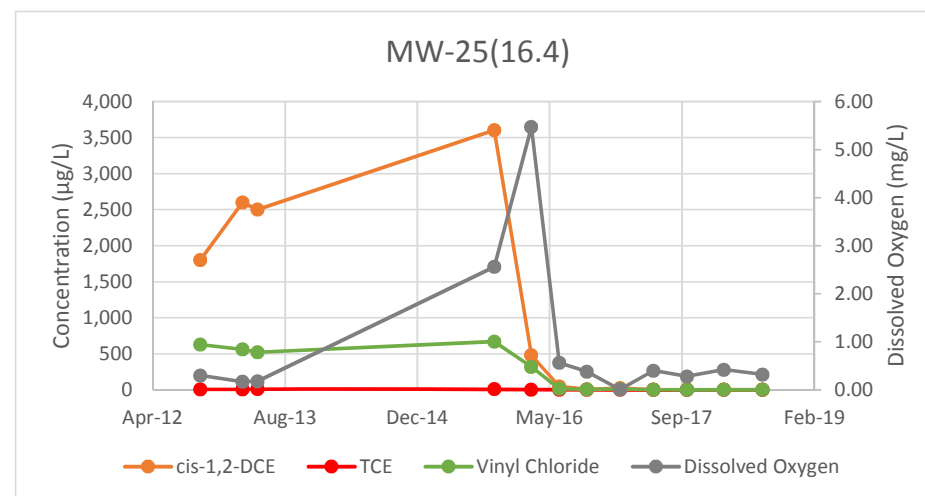
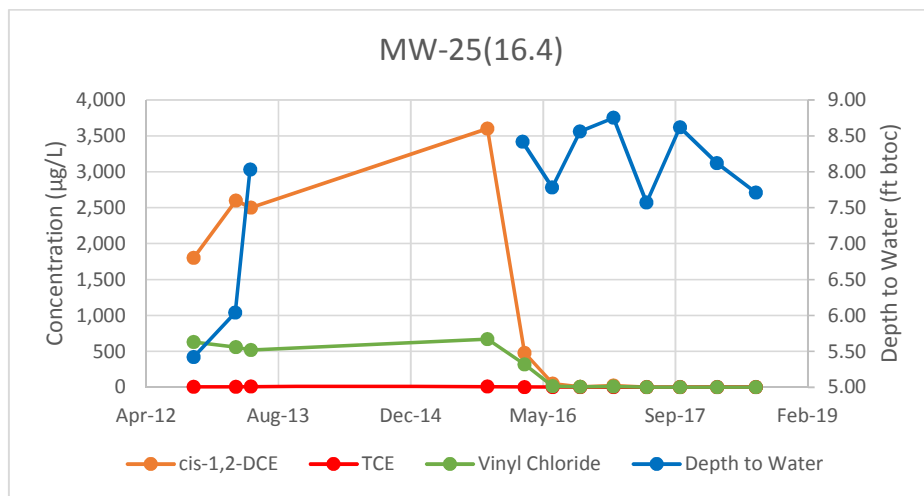
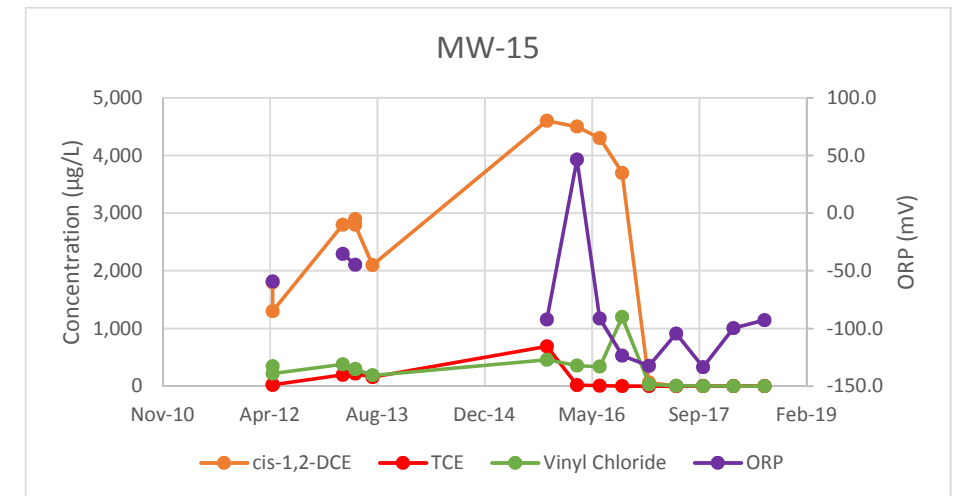
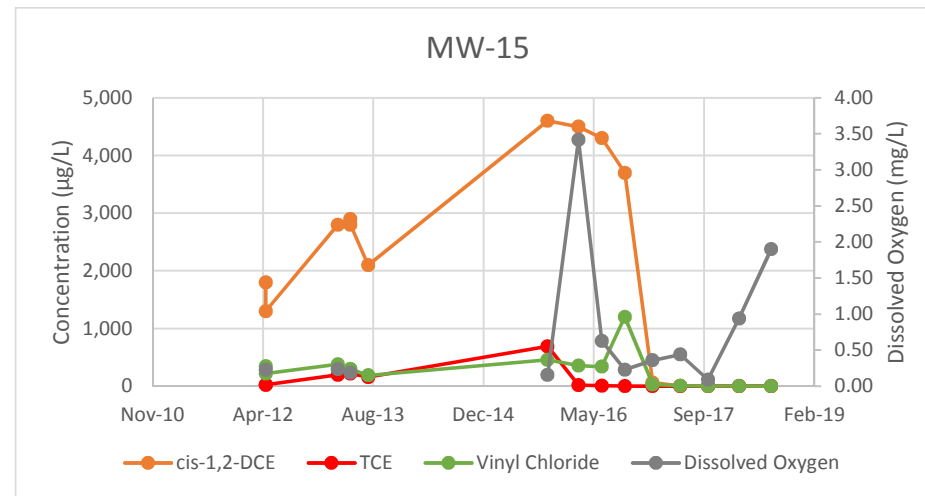
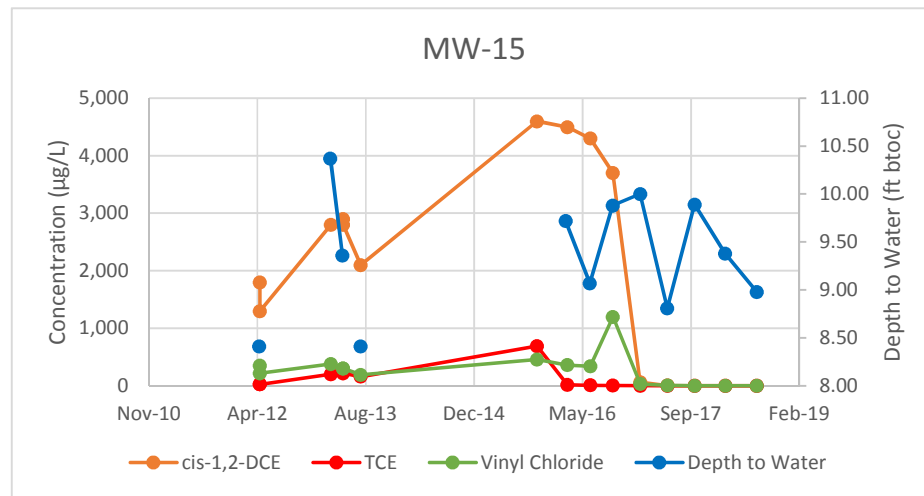
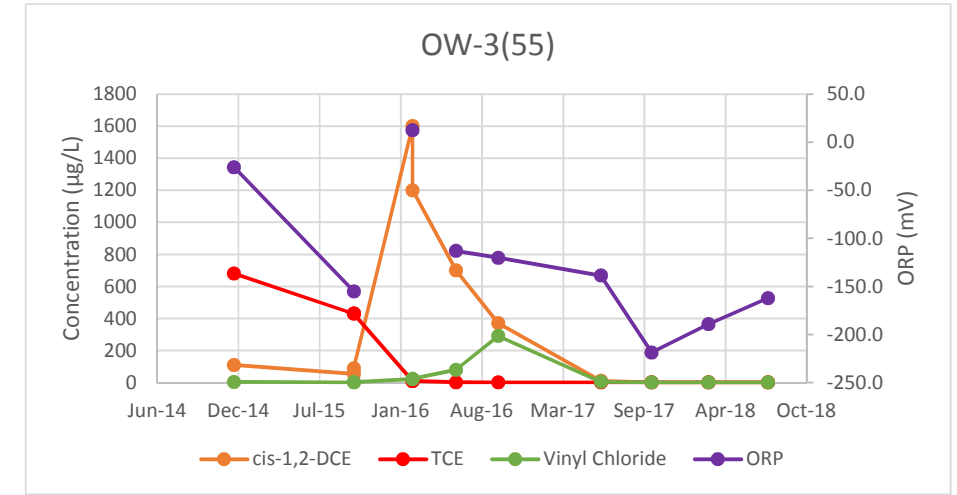
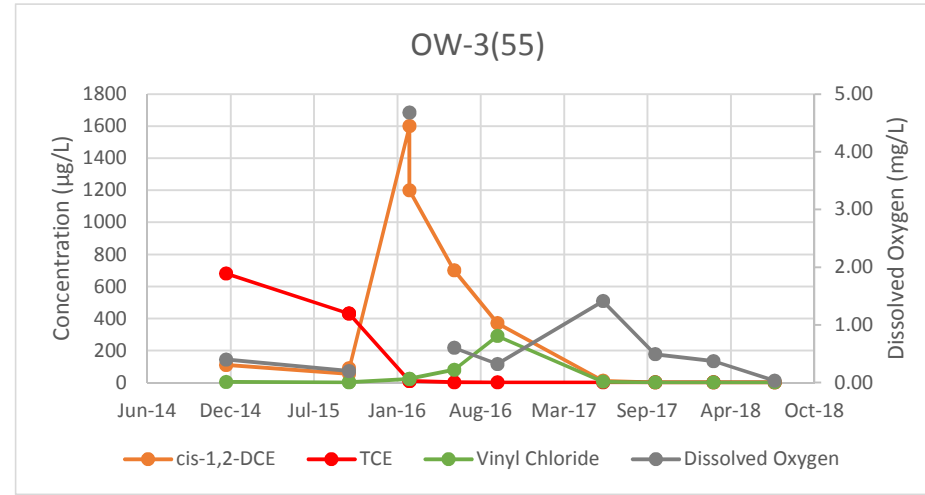
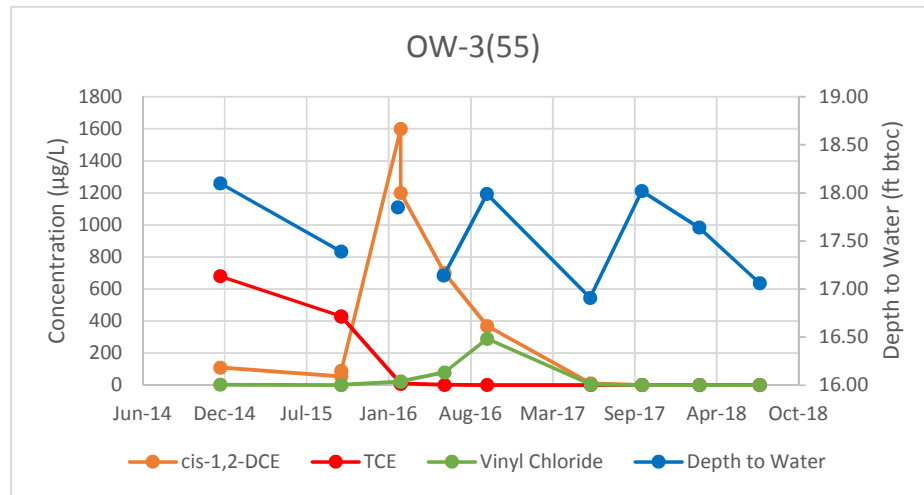
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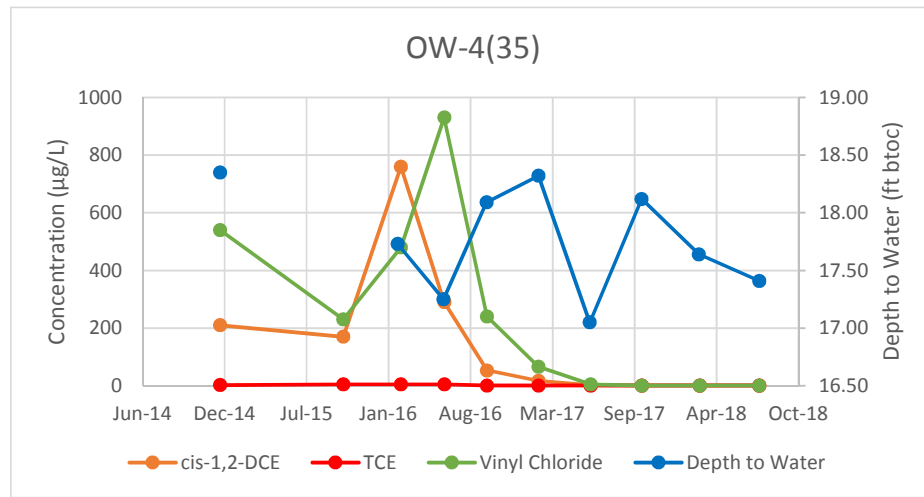
CVOC Concentrations and Depth to Water

CVOC Concentrations and Dissolved Oxygen

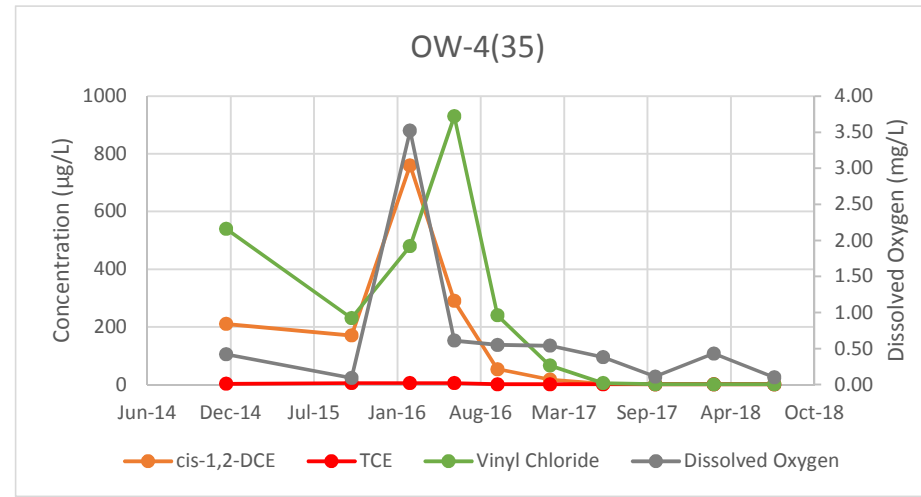
CVOC Concentrations and ORP



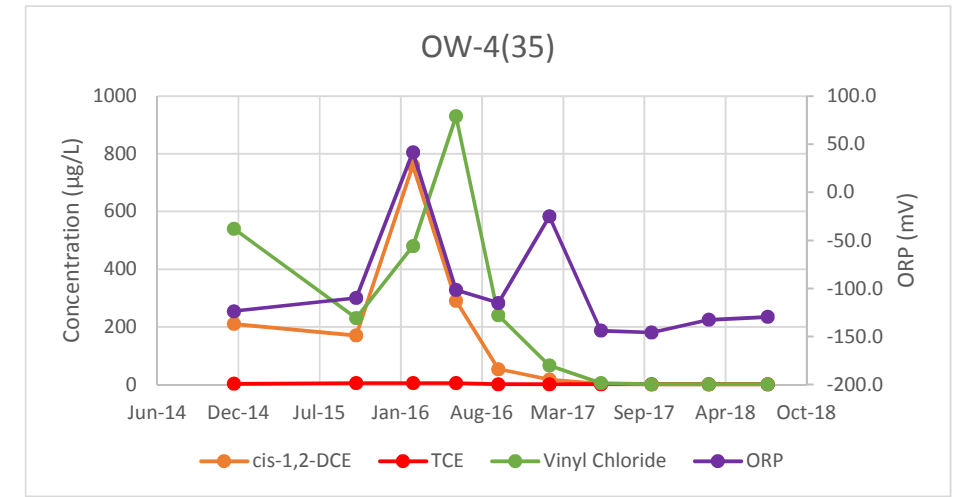
CVOC Concentrations and Depth to Water



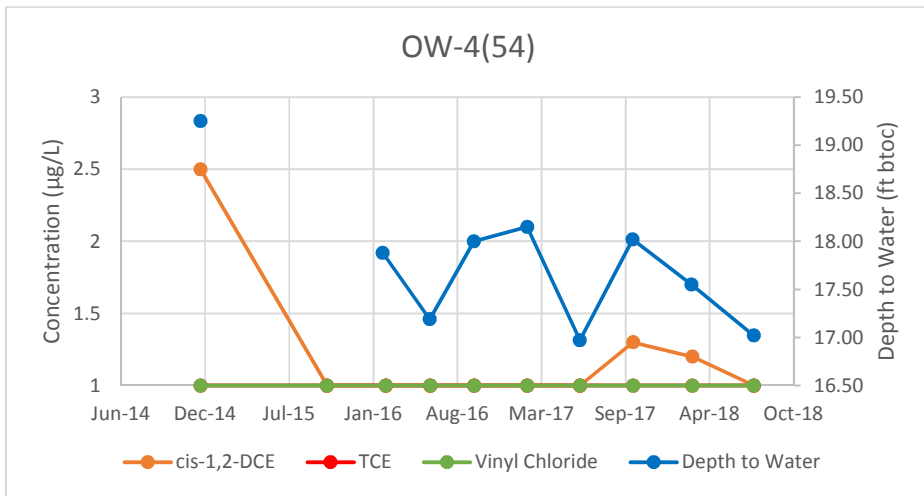
CVOC Concentrations and Dissolved Oxygen



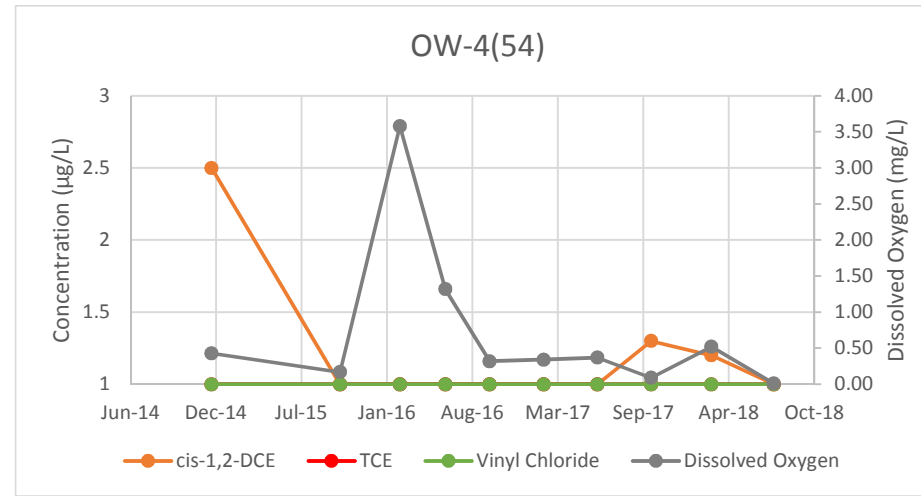
CVOC Concentrations and ORP



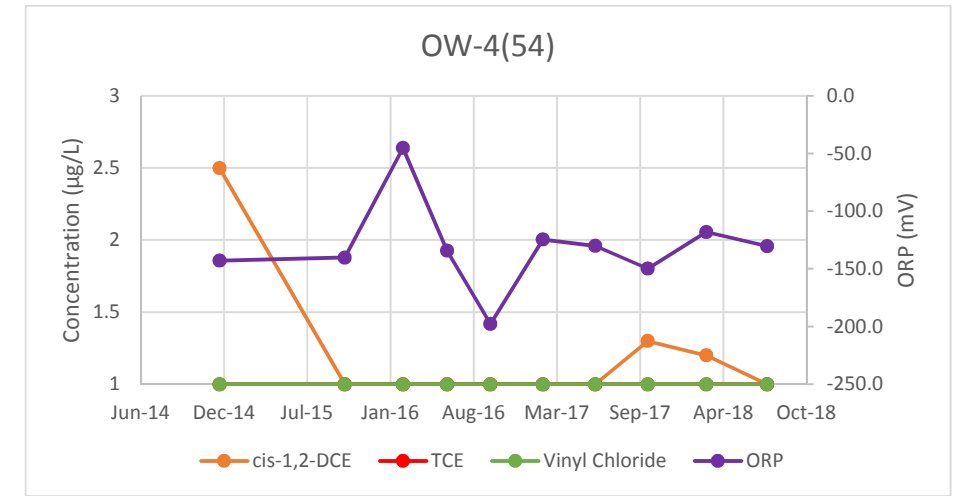
OW-4(54)



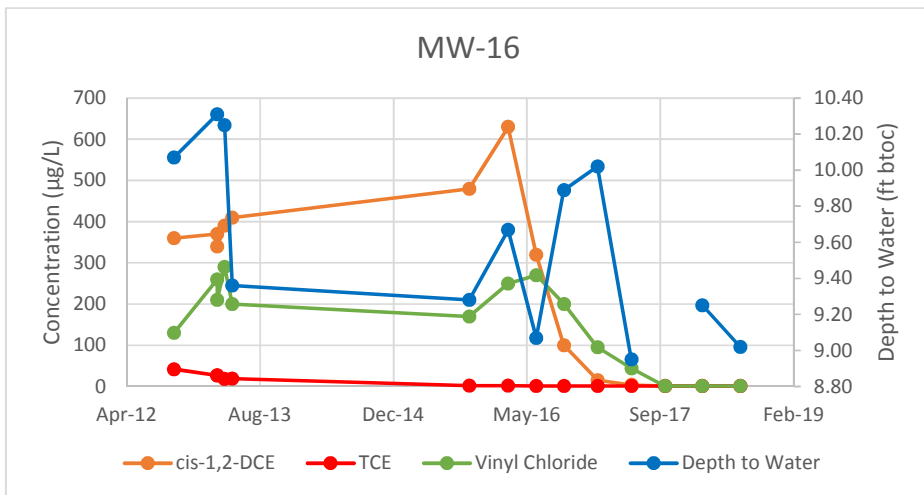
OW-4(54)



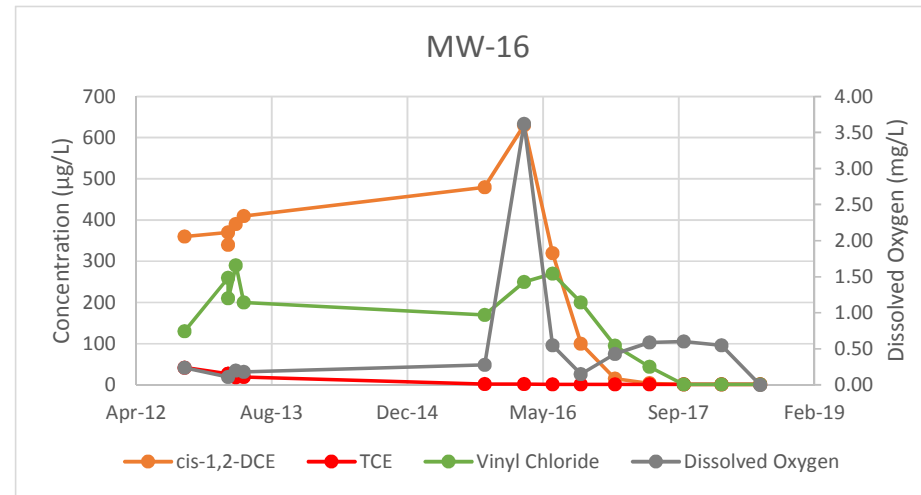
OW-4(54)



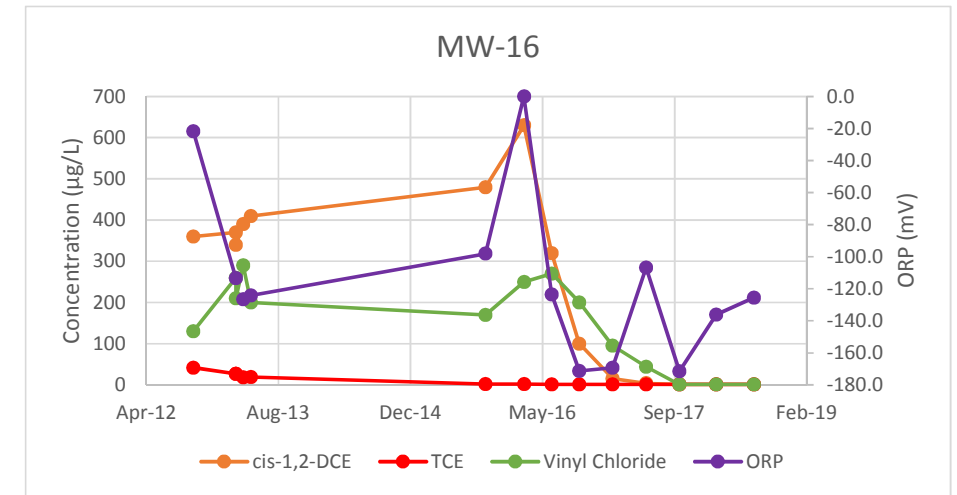
MW-16



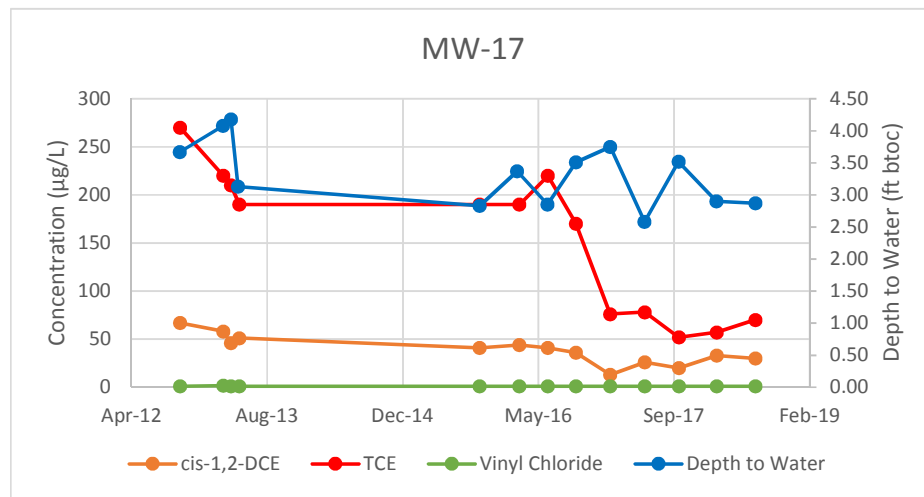
MW-16



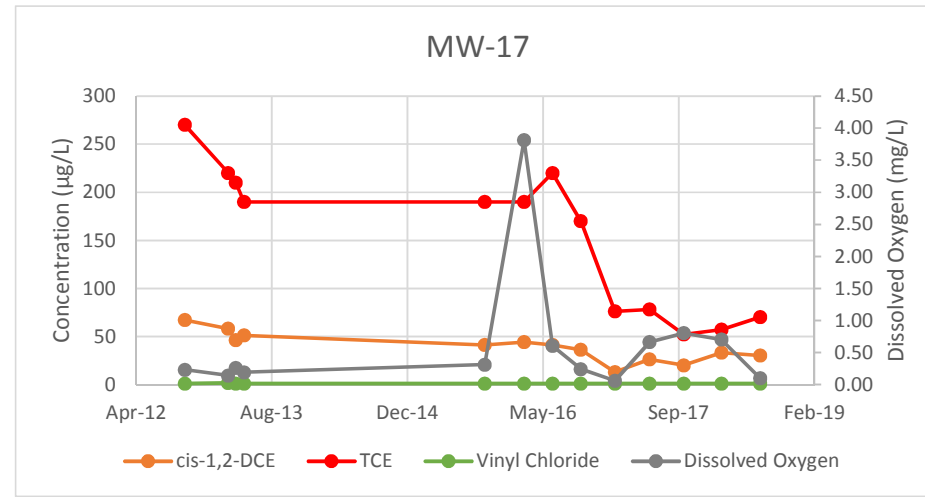
MW-16



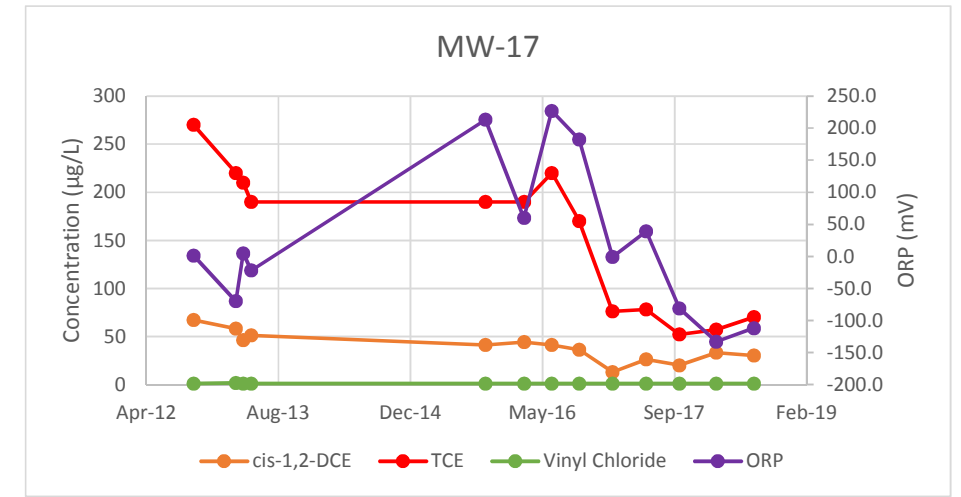
CVOC Concentrations and Depth to Water



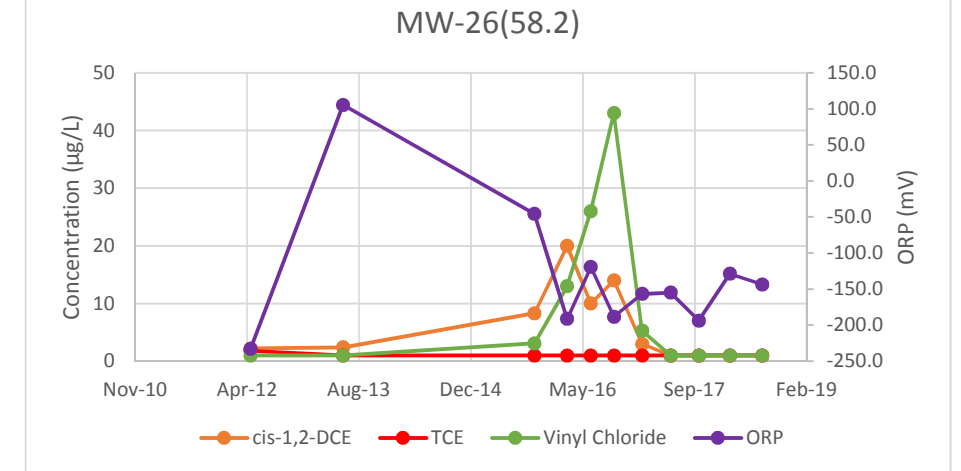
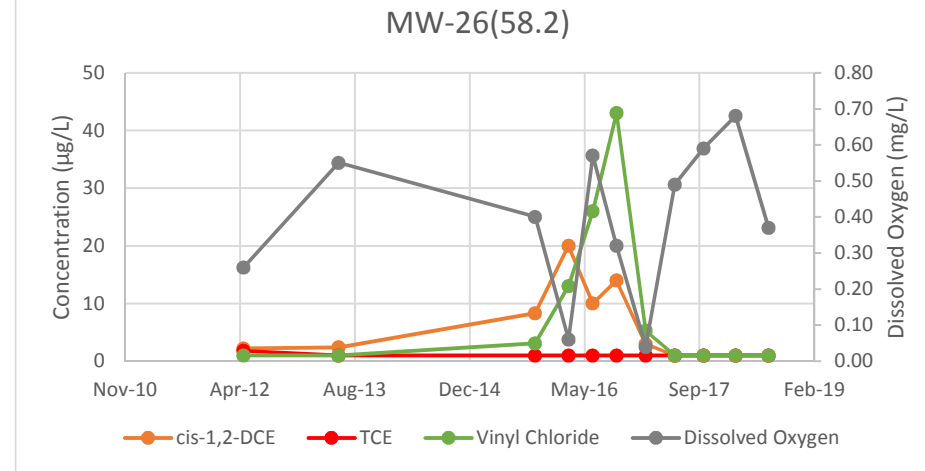
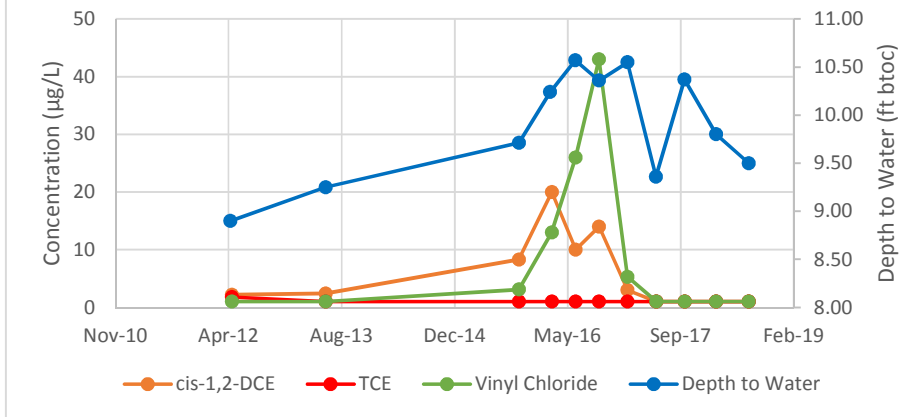
CVOC Concentrations and Dissolved Oxygen



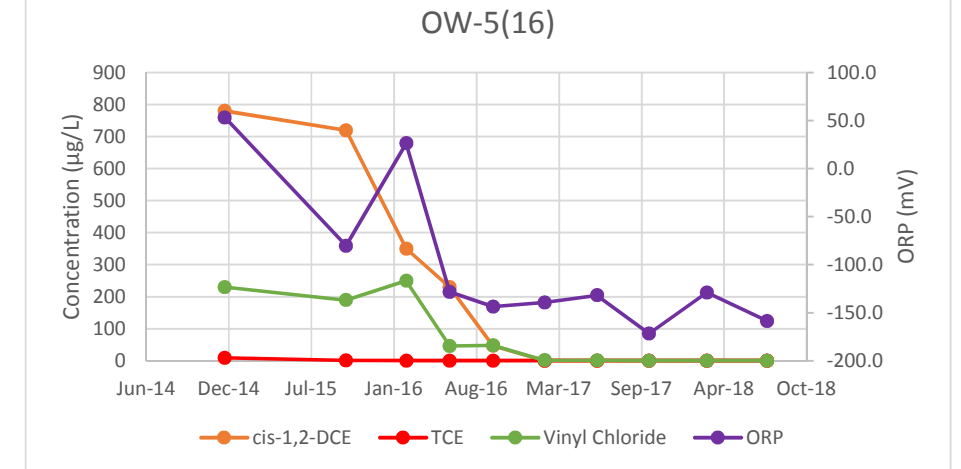
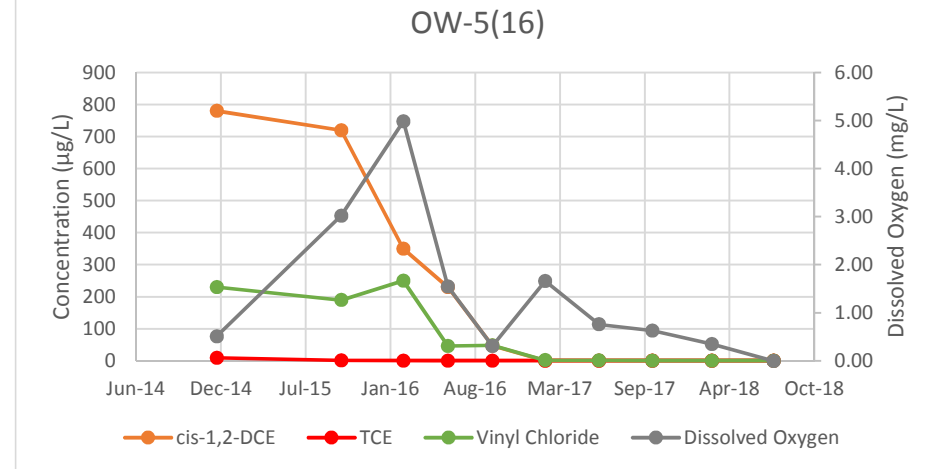
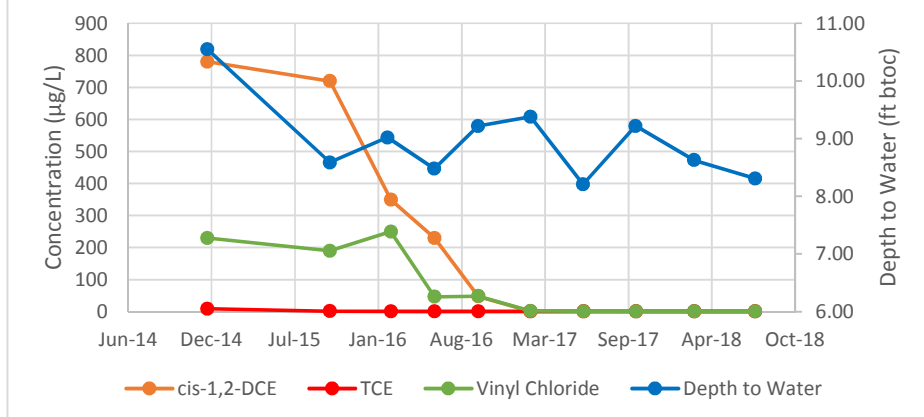
CVOC Concentrations and ORP



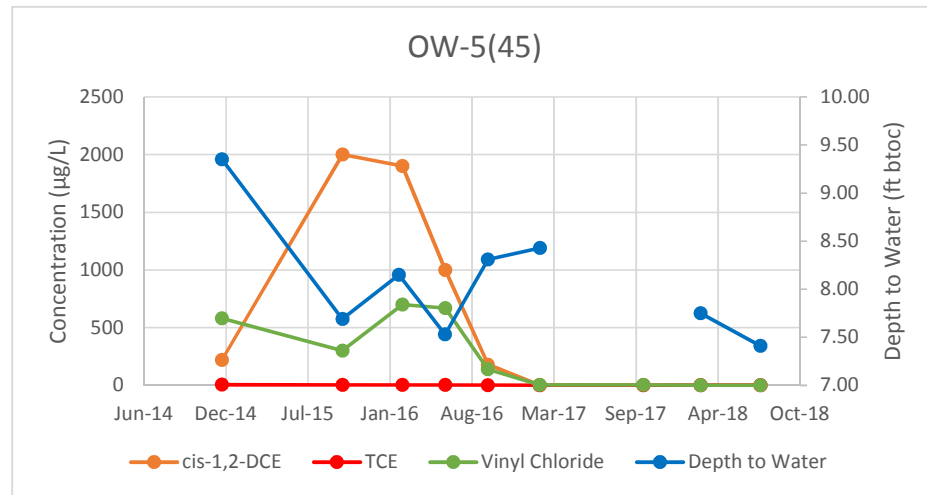
MW-26(58.2)



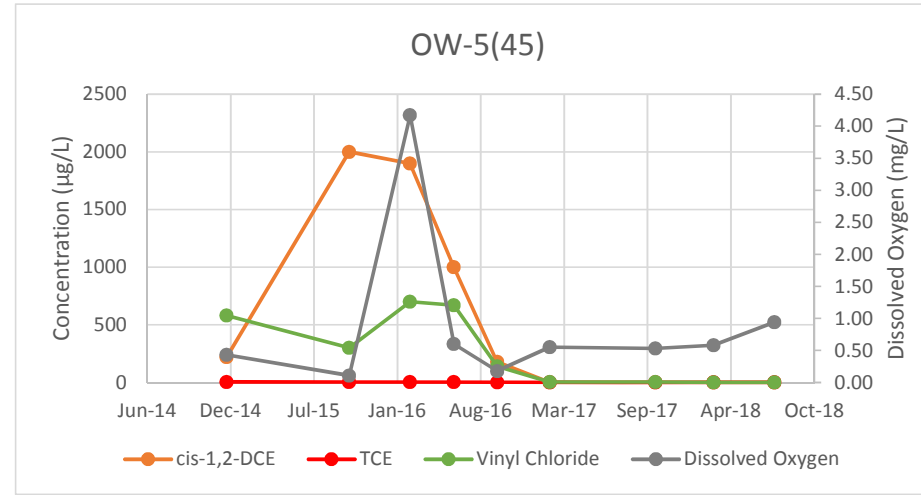
OW-5(16)



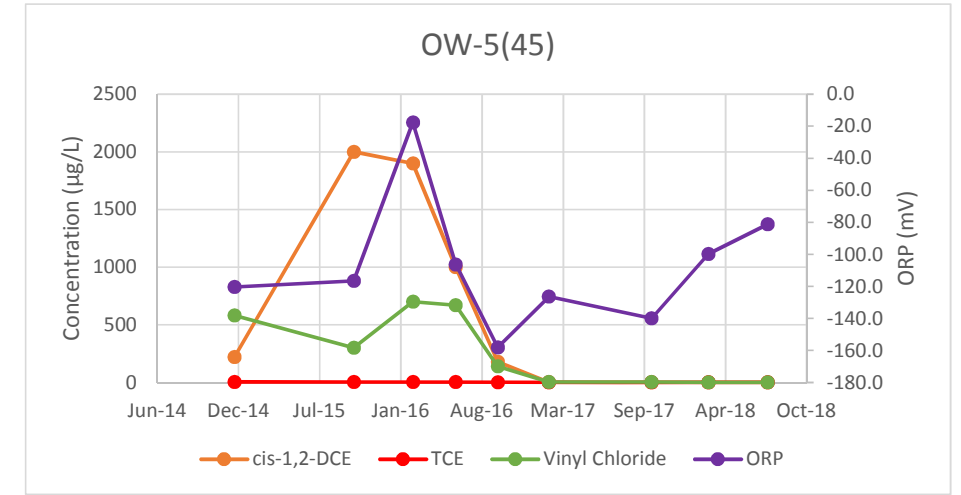
CVOC Concentrations and Depth to Water



CVOC Concentrations and Dissolved Oxygen



CVOC Concentrations and ORP





784.79
MW-85(39)

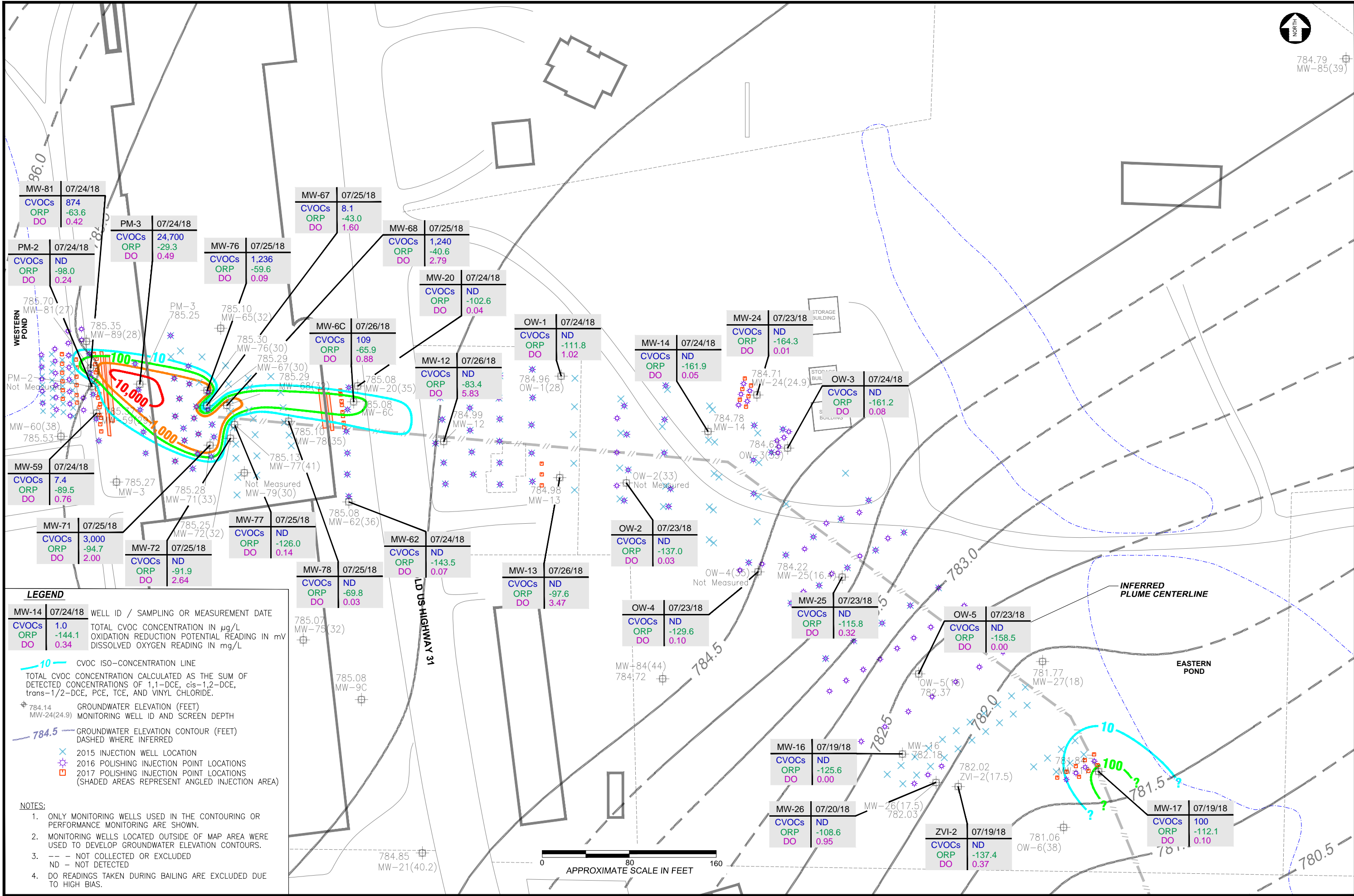
FIGURE
C-1
SHEET 1 of 1

**TOTAL CVOC / DO / ORP
SHALLOW OVERBURDEN WELLS
SOURCE TREATMENT AREA
July 2018**



**TORX FACILITY
4366 NORTH OLD US HIGHWAY 31
ROCHESTER, INDIANA**

FILE NO. P:\Texton\TFS\Drawings\GM Contours_2018_RAD.dwg
DATE 11/07/2018
APPROVED BY PJS
SOURCE Wells surveyed by Territorial Engineering, Fulton County, IN GIS, 2005.
PROJECT NO. 33559.15.1040
SCALE SEE ABOVE



MW-81	07/24/18
CVOCs	874
ORP	-63.6
DO	0.42

MW-67	07/25/18
CVOCs	8.1
ORP	-43.0
DO	1.60

PM-2	07/24/18
CVOCs	ND
ORP	-98.0
DO	0.24

PM-3	07/24/18
CVOCs	24,700
ORP	-29.3
DO	0.49

MW-76	07/25/18
CVOCs	1,236
ORP	-59.6
DO	0.09

MW-68	07/25/18
CVOCs	1,240
ORP	-40.6
DO	2.79

MW-20	07/24/18
CVOCs	ND
ORP	-102.6
DO	0.04

MW-6C	07/26/18
CVOCs	109
ORP	-65.9
DO	0.88

OW-1	07/24/18
CVOCs	ND
ORP	-111.8
DO	1.02

MW-14	07/24/18
CVOCs	ND
ORP	-161.9
DO	0.05

MW-24	07/23/18
CVOCs	ND
ORP	-164.3
DO	0.01

OW-3	07/24/18
CVOCs	ND
ORP	-161.2
DO	0.08

MW-59	07/24/18
CVOCs	7.4
ORP	-89.5
DO	0.76

MW-71	07/25/18
CVOCs	3,000
ORP	-94.7
DO	2.00

MW-72	07/25/18
CVOCs	ND
ORP	-91.9
DO	2.64

MW-77	07/25/18
CVOCs	ND
ORP	-126.0
DO	0.14

MW-78	07/25/18
CVOCs	ND
ORP	-69.8
DO	0.03

MW-13	07/26/18
CVOCs	ND
ORP	-97.6
DO	3.47

OW-2	07/23/18
CVOCs	ND
ORP	-137.0
DO	0.03

OW-4	07/23/18
CVOCs	ND
ORP	-129.6
DO	0.10

MW-25	07/23/18
CVOCs	ND
ORP	-115.8
DO	0.32

OW-5	07/23/18
CVOCs	ND
ORP	-158.5
DO	0.00

LEGEND

MW-14	07/24/18	WELL ID / SAMPLING OR MEASUREMENT DATE
CVOCs	1.0	TOTAL CVOC CONCENTRATION IN µg/L
ORP	-144.1	OXIDATION REDUCTION POTENTIAL READING IN mV
DO	0.34	DISSOLVED OXYGEN READING IN mg/L

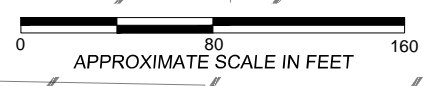
— 10 — CVOC ISO-CONCENTRATION LINE
TOTAL CVOC CONCENTRATION CALCULATED AS THE SUM OF DETECTED CONCENTRATIONS OF 1,1-DCE, cis-1,2-DCE, trans-1/2-DCE, PCE, TCE, AND VINYL CHLORIDE.

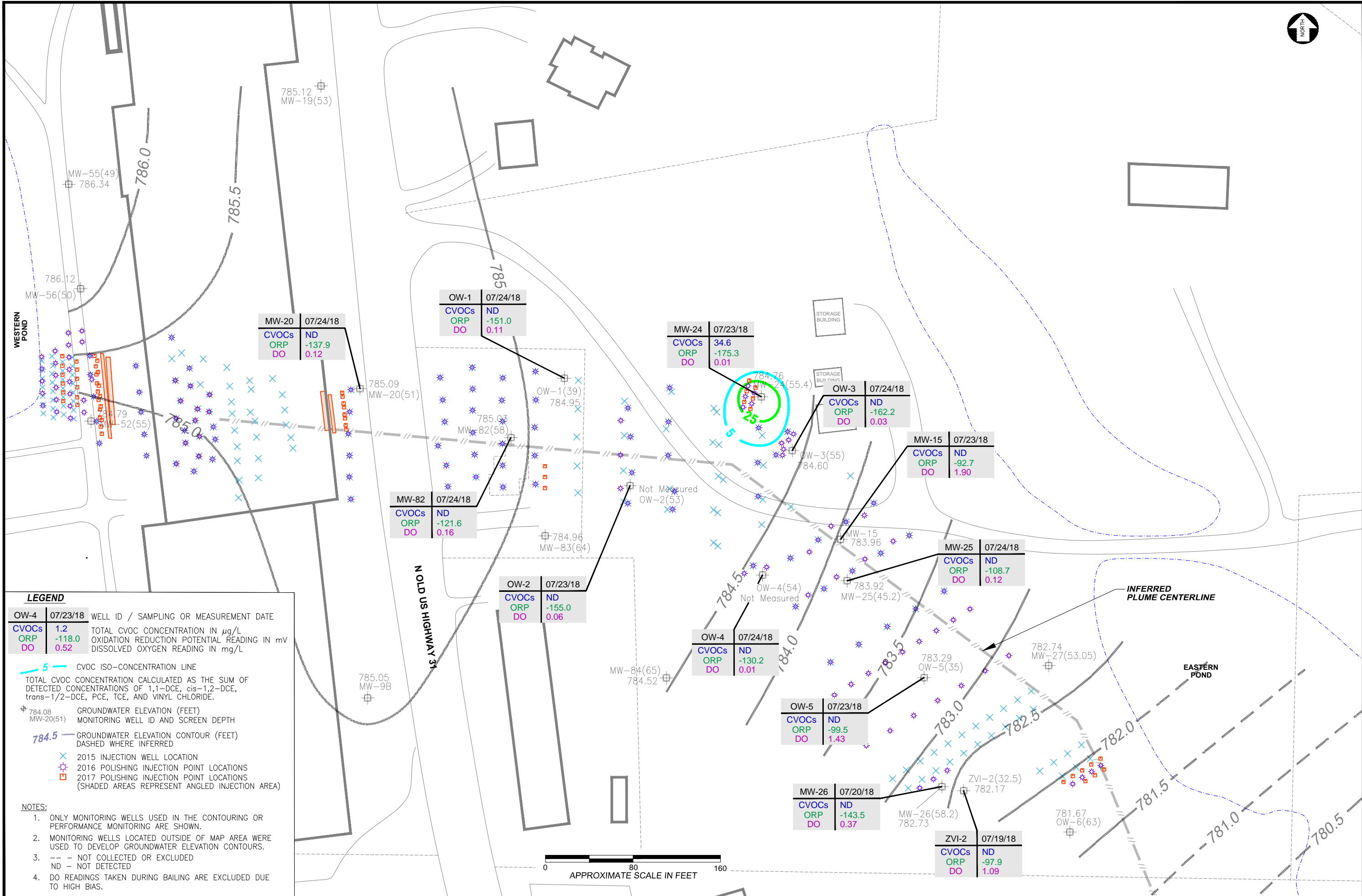
⊕ 784.14 GROUNDWATER ELEVATION (FEET)
MW-24(24.9) MONITORING WELL ID AND SCREEN DEPTH

— 784.5 — GROUNDWATER ELEVATION CONTOUR (FEET)
DASHED WHERE INFERRED

⊗ 2015 INJECTION WELL LOCATION
⊕ 2016 POLISHING INJECTION POINT LOCATIONS
⊕ 2017 POLISHING INJECTION POINT LOCATIONS
(SHADED AREAS REPRESENT ANGLED INJECTION AREA)

- NOTES:**
- ONLY MONITORING WELLS USED IN THE CONTOURING OR PERFORMANCE MONITORING ARE SHOWN.
 - MONITORING WELLS LOCATED OUTSIDE OF MAP AREA WERE USED TO DEVELOP GROUNDWATER ELEVATION CONTOURS.
 - — NOT COLLECTED OR EXCLUDED
ND — NOT DETECTED
 - DO READINGS TAKEN DURING BAILING ARE EXCLUDED DUE TO HIGH BIAS.





LEGEND

OW-4	07/23/18	WELL ID / SAMPLING OR MEASUREMENT DATE
CVOCs	1.2	TOTAL CVOC CONCENTRATION IN µg/L
ORP	-118.0	OXIDATION REDUCTION POTENTIAL READING IN mV
DO	0.52	DISSOLVED OXYGEN READING IN mg/L

5 CVOC ISO-CONCENTRATION LINE
 TOTAL CVOC CONCENTRATION CALCULATED AS THE SUM OF DETECTED CONCENTRATIONS OF 1,1-DCE, cis-1,2-DCE, trans-1/2-DCE, PCE, TCE, AND VINYL CHLORIDE.

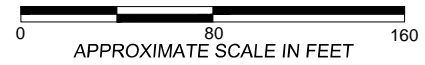
784.08 GROUNDWATER ELEVATION (FEET)
 MW-20(51) MONITORING WELL ID AND SCREEN DEPTH

784.5 GROUNDWATER ELEVATION CONTOUR (FEET)
 DASHED WHERE INFERRED

X 2015 INJECTION WELL LOCATION
 * 2016 POLISHING INJECTION POINT LOCATIONS
 □ 2017 POLISHING INJECTION POINT LOCATIONS
 (SHADED AREAS REPRESENT ANGLED INJECTION AREA)

NOTES:

- ONLY MONITORING WELLS USED IN THE CONTOURING OR PERFORMANCE MONITORING ARE SHOWN.
- MONITORING WELLS LOCATED OUTSIDE OF MAP AREA WERE USED TO DEVELOP GROUNDWATER ELEVATION CONTOURS.
- NOT COLLECTED OR EXCLUDED
 ND - NOT DETECTED
- DO READINGS TAKEN DURING BAILING ARE EXCLUDED DUE TO HIGH BIAS.





784.79
MW-85(39)

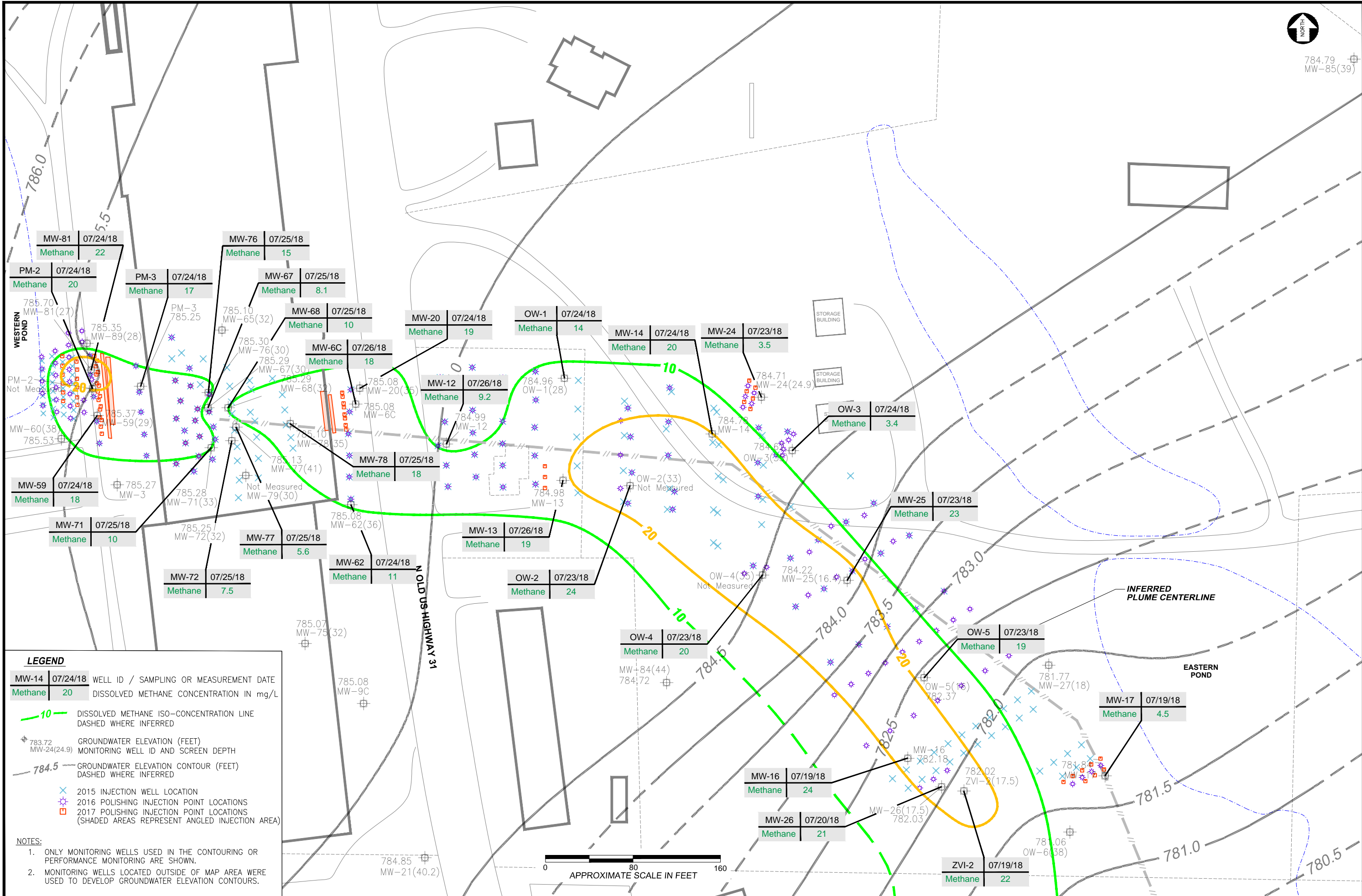
FIGURE
C-3
SHEET 1 of 1

**DISSOLVED METHANE
SHALLOW OVERBURDEN WELLS
SOURCE TREATMENT AREA**
July 2018



**TORX FACILITY
4366 NORTH OLD US HIGHWAY 31
ROCHESTER, INDIANA**

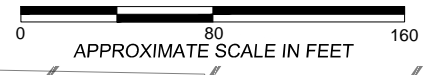
FILE NO. P:\Texton\IFS\
DRAWN BY Drawings\GM Contours_2018_RAD.dwg
APPROVED BY PJS
DATE 11/30/2018
SOURCE Wells surveyed by Territorial Engineering,
Fulton County, IN GIS, 2005.
PROJECT NO. 3359.15.1040
SCALE SEE ABOVE

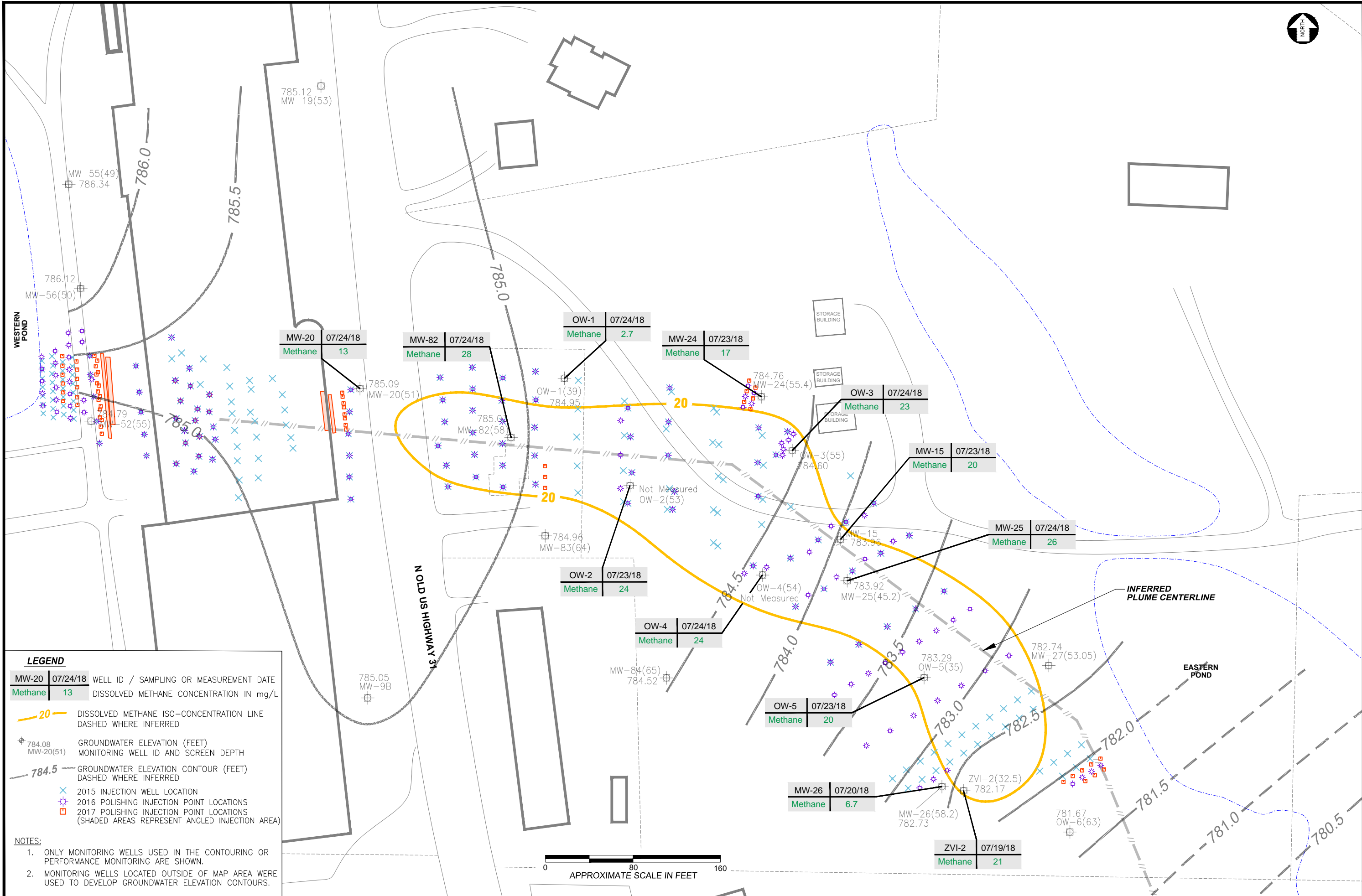


LEGEND

MW-14	07/24/18	WELL ID / SAMPLING OR MEASUREMENT DATE
Methane	20	DISSOLVED METHANE CONCENTRATION IN mg/L
10		DISSOLVED METHANE ISO-CONCENTRATION LINE DASHED WHERE INFERRED
783.72	MW-24(24.9)	GROUNDWATER ELEVATION (FEET) MONITORING WELL ID AND SCREEN DEPTH
784.5		GROUNDWATER ELEVATION CONTOUR (FEET) DASHED WHERE INFERRED
X		2015 INJECTION WELL LOCATION
*		2016 POLISHING INJECTION POINT LOCATIONS
□		2017 POLISHING INJECTION POINT LOCATIONS (SHADED AREAS REPRESENT ANGLED INJECTION AREA)

- NOTES:**
- ONLY MONITORING WELLS USED IN THE CONTOURING OR PERFORMANCE MONITORING ARE SHOWN.
 - MONITORING WELLS LOCATED OUTSIDE OF MAP AREA WERE USED TO DEVELOP GROUNDWATER ELEVATION CONTOURS.





LEGEND

MW-20	07/24/18	WELL ID / SAMPLING OR MEASUREMENT DATE
Methane	13	DISSOLVED METHANE CONCENTRATION IN mg/L

— 20 — DISSOLVED METHANE ISO-CONCENTRATION LINE
DASHED WHERE INFERRED

⊕ 784.08 GROUNDWATER ELEVATION (FEET)
MW-20(51) MONITORING WELL ID AND SCREEN DEPTH

— 784.5 — GROUNDWATER ELEVATION CONTOUR (FEET)
DASHED WHERE INFERRED

⊕ 2015 INJECTION WELL LOCATION
⊕ 2016 POLISHING INJECTION POINT LOCATIONS
⊕ 2017 POLISHING INJECTION POINT LOCATIONS
(SHADED AREAS REPRESENT ANGLED INJECTION AREA)

NOTES:

- ONLY MONITORING WELLS USED IN THE CONTOURING OR PERFORMANCE MONITORING ARE SHOWN.
- MONITORING WELLS LOCATED OUTSIDE OF MAP AREA WERE USED TO DEVELOP GROUNDWATER ELEVATION CONTOURS.

