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PILOT TEST IMPLEMENTATION REPORT

Former Trent Tube Plant No. 1

2188 Church Street

East Troy, Wisconsin

BRRTS No. 02-65-245827

July 17, 2020

File No. 20.0155935.01



PREPARED FOR:

Wisconsin Department of Natural Resources

Fitchburg, Wisconsin

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July 17, 2020
File No. 20.0155935.01

Mr. Steven L. Martin, Advanced Hydrogeologist
Wisconsin Department of Natural Resources
3911 Fish Hatchery Road
Fitchburg, Wisconsin 53711-5367

Re: Pilot Test Implementation Report
Former Trent Tube Plant No. 1
2188 Church Street
East Troy, Wisconsin
BRRTS #02-65-245827

Dear Mr. Martin:

On behalf of EnPro Holdings, Inc. (EnPro Holdings), GZA GeoEnvironmental, Inc. (GZA) submits this Pilot Test Implementation Report ("Report") to the Wisconsin Department of Natural Resources (WDNR) for the former Trent Tube Plant No. 1 located at 2188 Church Street in East Troy, Wisconsin ("Site"). The Enhanced Reductive Dechlorination (ERD) pilot test was implemented and monitoring was completed in accordance with the Groundwater Remediation Scope of Work and Temporary Exemption Request, dated September 19, 2020, that was approved by the WDNR on October 7, 2020. This Report provides a summary of the pilot test implementation activities, subsequent groundwater performance monitoring results, and recommendations for implementing a full-scale ERD injection program in select areas of the Site to remediate chlorinated hydrocarbon-affected groundwater with concentrations exceeding the NR 140 Enforcement Standards (ES).

We trust that the pilot test results provide the documentation for the WDNR to approve the implementation of an ERD injection program in other portions of the Site and provide the pertinent information for approval of the Temporary Exemption Request. If you should have any questions regarding the report or future proposed activities, please contact Kevin Hedinger at (262) 754-2578.

Sincerely,

GZA GeoEnvironmental, Inc.

Kevin M. Hedinger
Senior Hydrogeologist

James F. Drought, P.H.
Principal Hydrogeologist

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Attachment



1.0 INTRODUCTION 1

2.0 BACKGROUND 1

 2.1 SITE DESCRIPTION 1

 2.2 SUMMARY OF SITE PHYSICAL AND CHEMICAL CONDITIONS..... 2

3.0 ERD PILOT TEST EVALUATION, DESIGN, AND IMPLEMENTATION 4

 3.1 PRE-INJECTION GROUNDWATER LEVEL MEASUREMENTS AND GROUNDWATER SAMPLING 5

 3.2 PILOT TEST INJECTION DETAILS 5

 3.3 POST-INJECTION MONITORING 6

4.0 PILOT TEST RESULTS..... 7

 4.1 ELECTRON DONOR DISTRIBUTION AND WATER LEVELS..... 7

 4.2 GROUNDWATER CONDITIONS 8

 4.3 GROUNDWATER CONCENTRATIONS 9

 4.3.1 Pre- and Post-Injection Monitoring Comparison 10

 4.3.2 Other Pilot Test Injection Evaluation 11

5.0 CONCLUSIONS..... 12

TABLES

TABLE 1 SUMMARY OF GROUNDWATER ELEVATIONS PRE- AND POST-INJECTION

TABLE 2 SUMMARY OF PILOT TEST GROUNDWATER ANALYTICAL RESULTS

TABLE 3 SUMMARY OF FIELD PARAMETERS PRE- AND POST-INJECTION

TABLE 4 SUMMARY OF GROUNDWATER ELEVATIONS DURING INJECTION PILOT TEST

TABLE 5 SUMMARY OF MOLAR CONCENTRATIONS



FIGURES

FIGURE 1	SITE LOCATION MAP
FIGURE 2	SITE PLAN
FIGURE 3	GROUNDWATER FLOW MAP (NOVEMBER 2019)
FIGURE 4	GROUNDWATER TCE DISTRIBUTION (JUNE 19 & 20, 2019)
FIGURE 5	GROUNDWATER CIS-1,2-DCE DISTRIBUTION (JUNE 19 & 20, 2019)
FIGURE 6	GROUNDWATER VINYL CHLORIDE DISTRIBUTION (JUNE 19 & 20, 2019)
FIGURE 7	BASELINE GROUNDWATER TCE DISTRIBUTION (SEPTEMBER 18, 2019)
FIGURE 8	BASELINE GROUNDWATER CIS-1,2-DCE DISTRIBUTION (SEPTEMBER 2019)
FIGURE 9	BASELINE GROUNDWATER VINYL CHLORIDE DISTRIBUTION (SEPTEMBER 2019)
FIGURE 10	PILOT TEST INJECTION POINTS
FIGURE 11	GROUNDWATER TCE DISTRIBUTION (JUNE 2019-APRIL 2020)
FIGURE 12	CIS-1,2-DCE GROUNDWATER DISTRIBUTION (JUNE 2019-APRIL 2020)
FIGURE 13	GROUNDWATER VINYL CHLORIDE DISTRIBUTION (JUNE 2019-APRIL 2020)

GRAPHS

GRAPH 1	TOC CONCENTRATION VS. TIME
GRAPH 2	GROUNDWATER ELEVATION FLUCTUATION DURING PILOT TEST INJECTION
GRAPH 3	DISSOLVED OXYGEN CONCENTRATION VS. TIME
GRAPH 4	ORP VS. TIME
GRAPH 5	DISSOLVED IRON CONCENTRATION VS. TIME
GRAPH 6	SULFATE CONCENTRATION VS. TIME
GRAPH 7	METHANE CONCENTRATION VS. TIME
GRAPH 8	MW-1R MOLAR CONCENTRATIONS
GRAPH 9	OP-14 MOLAR CONCENTRATIONS



GRAPHS (CONT.)

GRAPH 10 MW-2 MOLAR CONCENTRATIONS

GRAPH 11 MW-42 MOLAR CONCENTRATIONS

APPENDICES

APPENDIX A LIMITATIONS

APPENDIX B PRE-INJECTION GROUNDWATER LABORATORY ANALYTICAL REPORT AND CHAIN-OF-CUSTODY FORM

APPENDIX C SOIL BORING ABANDONMENT FORMS

APPENDIX D POST-INJECTION GROUNDWATER LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY FORMS



1.0 INTRODUCTION

On behalf of EnPro Holdings, Inc. (EnPro), GZA GeoEnvironmental, Inc. (GZA) presents this Pilot Test Implementation Report (“Report”) for electron donor injection activities performed on the Former Trent Tube Plant No. 1 property located at 2188 Church Street in East Troy, Wisconsin (“Site”). The pilot test was performed in accordance with the Groundwater Remediation Scope of Work and Temporary Exemption Request for Groundwater Remedial Action, dated September 19, 2020, and the requirements set forth in the Wisconsin Department of Natural Resources’ (WDNR) approval letter dated October 7, 2019. The purpose of the pilot test was to evaluate the effectiveness of distributing the electron donor in the treatment zone, to evaluate the effectiveness of using emulsified vegetable oil (EVO) as an electron donor to create anaerobic conditions for reductive dechlorination, and to evaluate the effectiveness of reductive dechlorination to reduce the chlorinated hydrocarbon concentrations in groundwater. This Report provides a summary of the pilot test injection activities and subsequent groundwater performance monitoring results, presents a plan for further groundwater remediation using an electron donor to stimulate biologically-mediated reductive dichlorination, and presents an exemption request for WDNR approval for the injection of an electron donor. This Report is subject to the Limitations provided in Appendix A.

2.0 BACKGROUND

2.1 SITE DESCRIPTION

The Site is located in the NW $\frac{1}{4}$ of the NW $\frac{1}{4}$ of Section 29, Township 4 North, Range 18 East in the Village of East Troy, Walworth County, Wisconsin, as shown on the Site Location Map attached as Figure 1. The Site layout, attached as Figure 2, shows the historic site features, including the building, railroad track, lagoons, and remediation boundary.

Currently, there are no buildings on the Site except for two groundwater remediation system buildings near Honey Creek on the eastern portion of the Site, a pole barn along Honey Creek that contains an oil/water separator that was used during historic manufacturing operations, and a metal pole barn on the northeast corner near the former lagoon. The surface of the Site is covered by a mixture of concrete and gravel in the former building areas, and grass. A fence surrounds the 12-acre parcel, which limits access to the property. The Site is accessible from a gate on the north side of the property along Trent Street. The property is bounded to the south and east by Honey Creek, to the west by State Highway 120, and to the north by Trent Street. The land use adjacent to the Site is residential to the north and west and vacant land owned by the Village of East Troy to the east. On the south side of Honey Creek is a parcel of land owned by the Village of East Troy that contains wetland and wooded areas.

The former Trent Tube Plant No. 1 property was developed as a stainless-steel tube manufacturing facility in 1941. The facility is located east of Mill Pond on the west side of Highway 120, which was originally constructed to power a grist mill that was previously located at the Site prior to the Trent Tube operations. A flume allowed water to flow from Mill Pond across the western portion of the Site to power the grist mill and eventually discharge into Honey Creek. The flume was decommissioned by plugging the pipe. During its operational history, the Trent Tube Plant No. 1 building expanded 14 times during the period from 1941 to 1969. Manufacturing activities performed on-Site until approximately 1990 consisted of weld, cold-work, and annealed production of stainless-steel tubing and activities associated with surface-cleaning and sizing of the tubing prior to shipment. A significant portion of the tube manufacturing process ended at Plant No. 1 in mid-1984. Maintenance/repair and limited annealing processes continued at Plant No. 1 until 1992.



2.2 SUMMARY OF SITE PHYSICAL AND CHEMICAL CONDITIONS

Soil and groundwater Site investigation activities were conducted during several phases by other consultants prior to GZA's involvement. The purposes of the investigation activities were to evaluate potential source areas and delineate the extent and magnitude of impacts in soil, soil vapor, and groundwater. The potential source areas were associated with the locations of manufacturing operations and/or the locations of residual hot spots discovered on-Site. Results of the Site investigation activities were previously submitted to the WDNR by previous consultants in various reports, as well as a summary in GZA's reports dated February and September 2019. To date, it appears that the Site investigation activities have delineated the extent of affected soil and groundwater at the Site. There are on-going investigation activities that are proceeding to delineate polychlorinated biphenyls (PCBs) in soil in very limited areas of the Site. A summary of the results of the investigation and evaluation of remedial alternatives is presented as follows:

1. Soils at the Site were classified during the investigation activities. The historic activities at this Site consisted of filling for the construction of the former manufacturing building, as well as filling conducted at the time of decommissioning of the facility. The fill thickness varies across the Site from approximately 3 feet to as much as 10 feet. In the western portion of the Site, beneath the former manufacturing building, the fill thickness increases to the south toward Honey Creek. In the eastern portion of the Site, the historic filling activities included the filling of a former impoundment and a former channel and lagoon. The depth of these features and the source of the material used for filling are unknown. A large area, referred to as the Area of Consolidation (AOC), consists of fill material that was placed over the top of the former impoundment. The AOC was constructed with a berm and surface cap that were at grade on the west side and approximately 6 to 8 feet above grade on the eastern side. The source of the fill material in the AOC was reported to be material that was dredged from Honey Creek and from the restoration of the stream bank. Depth to bedrock beneath the Site ranges from 150 to 200 feet below ground surface (bgs), sloping to 250 feet bgs just northeast of the Site.
2. The water table depth ranges from approximately 3 to 13 feet below grade (elevation range of 821 to 833 feet) on the western portion of the Site and from approximately 4 to 12 feet below grade (elevation range of 818 to 826 feet) on the eastern portion of the Site. As the ground surface elevation declines to the south toward Honey Creek, the groundwater depth is within 1 foot of grade. The groundwater elevations measured at the Site from September 2019 through April 2020, are provided in Table 1.
3. Groundwater flow is generally south/southeast across the Site, except for an area on the southwest corner of the Site, near the pilot test area, where groundwater flow is south/southwest. The groundwater flow in this latter area is influenced by the shape of Honey Creek and the Mill Pond on the west side of Highway 120. The creek discharges from the Mill Pond in a southeasterly direction and curves to the south and east around the south side of the Site. The height of the water maintained in the Mill Pond causes the groundwater flow to be in a south/southwest direction toward the creek at the base of the dam. The groundwater flow map for November 2019 is shown on Figure 3.

Based on the measured hydraulic gradient of 0.012 feet per foot (ft/ft) in the southwest corner of the Site, a hydraulic conductivity as measured by slug tests of 1.08×10^{-2} centimeters per second (cm/sec) (geometric mean), and the estimated porosity for the shallow deposits of 0.35, the average linear horizontal groundwater flow velocity is calculated to be approximately 380 feet per year (ft/yr) at the Site. This velocity is only an estimate of the groundwater velocity and does not represent the migration of contaminants in the subsurface because the contaminants are restricted in their migration by other soil properties such as organic carbon.

The vertical gradient in monitoring wells MW-4 and MW-4A was evaluated to determine the potential for vertical groundwater flow to influence the distribution of chlorinated hydrocarbons. MW-4 and MW-4A are monitoring wells installed adjacent to each other but at 10 to 20 feet bgs and 44 to 49 feet bgs, respectively. By measuring the



difference in groundwater elevation across the distance between the center of these well screens, the vertical gradient can be calculated. The vertical gradient calculated between these wells is 0.04 ft/ft, indicating a slight downward vertical gradient. An evaluation of the groundwater concentrations between these wells indicates that there is an approximate 99% reduction in TCE concentrations between MW-4 and MW-4A. This reduction indicates that vertical migration is not a significant transport mechanism. This reduction is likely due to differences in the hydraulic properties of the lithologic units at the Site and dilution and dispersion of TCE with depth. This evaluation indicates that the treatment area for the pilot test is from the groundwater interface to a depth of 10 feet.

4. A Groundwater Extraction Treatment System (GETS) was installed in 1999 to hydraulically control the groundwater flow across the Site and to control the discharge of groundwater from the Site into Honey Creek. The GETS consists of 26 extraction wells and two remediation treatment buildings. The groundwater is pumped from the extraction wells using pneumatic pumps to the remediation buildings for treatment. The treatment consists of a 6-Stage air diffuser and three 1,000-pound granular activated carbon canisters. The treated groundwater is discharged to Honey Creek under a Wisconsin Pollutant Discharge Elimination System (WPDES) permit with discharge monitoring reports for the treatment system sampling are submitted electronically to the WDNR on a quarterly basis.
5. Trichloroethene (TCE) is the primary constituent detected in soil in the former manufacturing building area. The primary source area of TCE affecting groundwater quality in the southern portion of the building area consists of low-level TCE concentrations that occur almost exclusively in the groundwater fluctuation zone and below the water table. The TCE-affected soils in this area extend from approximately the west half of the building to Highway 120 and downgradient of this area coinciding with the TCE groundwater plume. A second area of TCE, which is also affecting groundwater quality, is in the northern building area but is very limited in horizontal extent. The soil data indicate TCE-affected soil is present on the eastern portion of the Site in the AOC; however, the TCE does not appear to be partitioning to groundwater in this area, as indicated by the groundwater results.
6. TCE and its degradation products (cis- and trans-1,2-dichloroethene [DCE], 1,1-DCE, and vinyl chloride) are the primary chemical constituents detected in groundwater at concentrations exceeding each constituent's respective Enforcement Standards (ESs). The highest TCE and total volatile organic compound (VOC) concentrations in groundwater occur beneath the southern building area near the southern degreasing room and extend downgradient to the south and southwest toward Honey Creek. The distribution of TCE, cis-1,2-DCE, and vinyl chloride in groundwater in June 2019 is presented on Figures 4, 5, and 6, respectively. This data is from the most recent sampling event for which groundwater samples were collected from the monitoring wells across the Site.

Additional background information that includes an overview of historical Site use and ownership, a description of Site area topography, geology, and hydrogeological conditions, a summary and discussion of the various Site investigation activities previously performed by other consultants and GZA, is presented in GZA's *2018 Semi Annual (November 2018) Groundwater Sampling Report*, dated February 2019,¹ and *2019 Annual (June 2019 Event) Groundwater Sampling Report*, dated September 2019.²

¹ *2018 Semi-Annual (November 2018 Event) Groundwater Sampling Report, Trent Tube Plant No. 1, 2188 Church Street, East Troy, Wisconsin, BRRTS #02-65-245827*, dated February 25, 2019, GZA File No. 20.0155935.01.

² *2019 Annual (June 2019 Event) Groundwater Sampling Report, Former Trent Tube Plant No. 1, 2188 Church Street, East Troy, Wisconsin, BRRTS #02-65-245827*, dated September 18, 2019, GZA File No. 20.0155935.01.



3.0 ERD PILOT TEST EVALUATION, DESIGN, AND IMPLEMENTATION

Groundwater samples collected from the Site monitoring wells since approximately 1999 for laboratory analysis of VOCs indicate that TCE is the primary groundwater contaminant. TCE is a chlorinated hydrocarbon that can be reductively degraded to daughter products cis-1,2-DCE, vinyl chloride, and ethene, most efficiently under anaerobic groundwater conditions. An evaluation of historical groundwater results indicated that daughter products cis-1,2-DCE and vinyl chloride were present across the Site in the areas of TCE-affected groundwater, with the exception of an area in the southwest corner of the former building. In this area, the lack of daughter products indicated that degradation was not occurring under natural conditions. In the areas of the Site where daughter products were present in the groundwater, the trends indicated that the natural degradation rate was not sufficient to achieve the ES in a reasonable timeframe. Typically, in a natural environment there is a rate limiting factor controlling the degradation rate. Therefore, additional groundwater evaluation and analyses were performed to identify potential limiting factors.

The field indicator parameters (dissolved oxygen [DO] and oxidation-reduction potential [ORP]) collected during low-flow sampling indicated groundwater conditions at the Site that may be favorable for enhancing the environment to create anaerobic conditions, thus increasing the rate of reductive dechlorination of the chlorinated hydrocarbons. The DO in the TCE-affected groundwater areas was measured to be approximately 1 milligram per liter (mg/L) or less. The ORP in these areas was measured to be less than 50 millivolts (mV). These levels indicate that reductive dechlorination may be a feasible remedial alternative.

In addition to the field indicator parameters, geochemical parameters (total organic carbon [TOC], nitrate, sulfate, and dissolved iron) were analyzed. The dissolved iron, nitrate, and sulfate provide an insight into the strength of the reducing environment in groundwater. As the nitrate and sulfate electron acceptor concentrations decrease as they are utilized as electron acceptors, the strength of the reducing environment becomes more favorable and efficient for reductive dechlorination. These results indicated that the environment was only mildly reducing because nitrate and sulfate were present in the groundwater, but not at sufficiently low levels. The TOC measured in the groundwater samples was less than 20 mg/L. Concentrations of TOC greater than 20 mg/L are typically necessary to maintain and promote an anaerobic groundwater environment sufficient for efficient reductive dechlorination. The level of TOC in the groundwater was identified as a limiting factor in the reductive dechlorination process.

Based on the data evaluation, the injection of an electron donor (carbon source) was determined to be a feasible remedial alternative to enhance the groundwater conditions for reductive dechlorination of the chlorinated hydrocarbons. The injection of the electron donor would lower the DO and create an anaerobic groundwater environment. In addition to the groundwater conditions, the Site soils were evaluated to determine if an amendment could be injected into the subsurface beneath the groundwater interface. The soils at the Site are sandy and silty in nature, which allows for groundwater flow through the soils. The hydraulic conductivity measured by slug tests indicate that it is sufficient to allow for the distribution of an amendment by injection into the groundwater.

Based on the Site conditions presented above, a pilot test was proposed in a limited area in the southwest corner of the former building. The performance objectives of the pilot test were to evaluate the effectiveness of distributing the electron donor in the treatment zone, to evaluate the effectiveness of an electron donor to create anaerobic conditions for reductive dechlorination, and to evaluate the effectiveness of reductive dechlorination to reduce the chlorinated hydrocarbon concentrations in groundwater.

The scope of work for the proposed pilot test was submitted in the September 2019 Exemption Request and was approved by the WDNR in a letter dated October 7, 2019. The pilot test consisted of the injection of a bioaugmented EVO and water



solution into the aquifer at 28 direct-push borings along four profiles on the southwestern portion of the Site. The details of the pilot test implementation are provided in Section 3.2.

3.1 PRE-INJECTION GROUNDWATER LEVEL MEASUREMENTS AND GROUNDWATER SAMPLING

Prior to the commencement of the EVO injection activities, GZA collected baseline groundwater samples on September 17, 2019, from the injection monitoring well network (MW-1R, MW-2, MW-4, MW-18R, MW-38, MW-41, MW-42, and OP-14) to evaluate baseline pre-injection groundwater quality and concentrations. Groundwater samples were collected using a peristaltic pump attached to disposable polyethylene tubing placed within the well screen of each monitoring well. Groundwater was purged from the wells at flow rates of approximately 250 to 300 milliliters per minute (ml/min). During purging, field parameters (pH, temperature, specific conductivity, DO, and ORP) were measured using a flow-through cell and multi-meter. Water levels were measured until stable conditions were achieved. The groundwater samples were collected directly from the peristaltic pump into laboratory-supplied sample containers by disconnecting the flow-through cell. Purge water was containerized in a 5-gallon bucket and disposed by placing it into a process tank for the GETS.

The groundwater samples were placed on ice in an insulated cooler and submitted to Pace Analytical Services under chain-of-custody procedures for VOC analyses by United States Environmental Protection Agency (USEPA) Method 8260B, dissolved iron by USEPA Method 6020A or B, dissolved gases (ethane, ethene, and methane) by Method RSK-175, sulfate by Standard Method 300.0, and TOC by USEPA Method 9060A. The groundwater laboratory analytical reports are provided in Appendix B, the groundwater and electron acceptor analytical results are provided on Table 2, results of the field parameters are provided on Table 3, and the water level measurements are provided on Table 1. The pre-injection distribution of TCE, cis-1,2-DCE, and vinyl chloride in groundwater in the pilot test area in the southwest corner of the Site for September 2020 are provided on Figures 7, 8, and 9. The distribution in this area is similar to the distribution in the June 2019 sampling event, with the highest concentrations of TCE detected in monitoring wells MW-42 and MW-2, and only minor concentrations of cis-1,2-DCE and vinyl chloride detected in these wells.

3.2 PILOT TEST INJECTION DETAILS

The EVO injection pilot test was performed from October 8 through 14, 2019. The direct-push borings were performed by On-Site Environmental Services, Inc. (OES) from Sun Prairie, Wisconsin using a Geoprobe® 7822 DT drill rig equipped with steel rods. The injected solution consisted of water derived from the Site mixed with the RNAS Remediation Products (RNAS) products using a 10-point injection manifold capable of tracking the volume of EVO and water injected at each injection interval. A summary of the RNAS products is provided below.

1. Newman Zone 55, an EVO concentrate that was delivered to the Site as an emulsified oil and water solution, and was further diluted with water during injection.
2. OS, an oxygen scavenger was mixed into the injection water as a treatment to ensure the injectate solution was anaerobic when the emulsified oil and water solution are mixed during injection; and
3. SDC-9 and TCA-20, an active dechlorinating culture to enhance the naturally occurring microbes and facilitate the initial TCE degradation until the naturally occurring microbes become active and degrade the chlorinated hydrocarbons.

A summary of the injection pilot test activities is below.

1. The injection pilot test area was located in the southwest corner of the Site in an area that was partially covered with hybrid poplar trees that were planted as part of the phytoremediation treatment at the Site. To complete the injection in this area, approximately 78 trees were removed by cutting the trees flush with the ground surface but leaving the



tree roots in place. The tree trunks and limbs were chipped on-Site and spread over the injection area as ground cover.

2. The injection array consisted of seven direct-push borings drilled by OES on a 20-foot spacing along each of four injection profiles (28 total injection points) oriented perpendicular to the groundwater flow direction in the southwest corner of the Site. The locations of the injection points relative to the Site monitoring wells are shown on Figure 10. The injection profiles were separated by approximately 20 to 30 feet. The direct-push borings in each profile were off-set from the other profiles by approximately 10 feet to form a triangular grid of injection borings.
3. The saturated thickness for treatment in the injection area was estimated to be 10 feet. As the water table depth in this area was measured to be approximately 7 feet bgs, the injection intervals were completed to a depth of approximately 17 feet bgs. The injections in each boring were completed in three depth intervals within the 10-foot treatment interval at each of the 28 injection borings. There was a total of 84 injection intervals. For each injection interval, the direct push drilling rods were first advanced to the target depth and then retracted to expose a 6-inch stainless steel screen at the end of the rods.
4. The injection pressure was monitored and controlled at each injection interval to control the flow of material into the subsurface, to not create preferential flow paths, and to reduce the potential for the solution to travel along the drill rods to the surface. The solution was injected at pressures up to 30 pounds per square inch (psi) and at injection rates up to 5 gallons per minute (gpm) for a single injection location. During the injection process, injected solution was not present at the surface around the drilling rods.
5. The process at each injection interval consisted of injecting a mixture of approximately 19 gallons of Newman Zone 55 (approximately 10% dosage by volume), 0.4 liters of SDC-9 culture, and approximately 200 gallons of groundwater obtained from the on-Site groundwater extraction treatment system and treated with the oxygen scavenger. The time of injection and flow rate of EVO and groundwater at each injection interval was monitored at the injection manifold and recorded to track the injection intervals completed and the total amount of injected solution. The SDC-9 culture was measured separately and injected into the line once flow was established in the injection interval.
6. A cumulative total of approximately 1,650 gallons of Newman Zone 55, and 15 liters of SDC-9 were injected into the 28 injection points (84 injection intervals).
7. Following the injection process at each point, the drill rods were removed from the boring and the boring was abandoned with bentonite chips in general accordance with the requirements of Wisconsin Administrative Code (Wis. Adm. Code) NR 141. The abandonment forms (Form 3300-005, rev. 4/06) are provided in Appendix C.
8. Water levels were measured in monitoring wells within and surrounding the injection area (MW-1R, MW-2, MW-41, MW-42, and OP-14) three times per day (before, during, and at the end of injections each day). The purpose of the water level measurements was to monitor any changes in the water levels and potentially the groundwater flow direction caused by the injection. The water levels are summarized in Table 4.

3.3 POST-INJECTION MONITORING

Post-injection groundwater samples were collected from the monitoring well network (MW-1R, MW-2, MW-4, MW-18R, MW-38, MW-41, MW-42, and OP-14) on November 20/21, 2019, December 19, 2019, January 22, 2020, and April 16, 2020, to monitor the progress of the pilot test. Groundwater samples were collected using a peristaltic pump attached to disposable polyethylene tubing placed into each monitoring well. Groundwater was purged from the wells at flow rates of approximately 250 to 300 ml/min prior to sampling. During purging, field parameters (pH, temperature, specific conductivity, DO, and ORP) were measured using a flow-through cell and multi-meter, and water levels were measured



until stable conditions were achieved. The groundwater samples were collected directly from the peristaltic pump into laboratory-supplied sample containers by disconnecting the flow-through cell. Purge water was containerized in a 5-gallon bucket and disposed by placing it into a process tank for the GETS.

After purging, the groundwater samples were placed on ice in an insulated cooler and submitted to Pace Analytical Services under chain-of-custody procedures for VOC analyses by USEPA Method 8260B, dissolved iron by USEPA Method 6020A or B, dissolved gases (ethane, ethene, and methane) by Method RSK-175, sulfate by Standard Method 300.0, and TOC by USEPA Method 9060A. The groundwater laboratory analytical reports are provided in Appendix D, the results of the field parameters are provided on Table 3, and the water level measurements are provided on Table 1.

4.0 PILOT TEST RESULTS

The following sections present an evaluation of the pilot test data based on the performance objectives to evaluate the effectiveness of the pilot test design to distribute the electron donor in the treatment zone, to evaluate the effectiveness of injecting an electron donor to create sufficient anaerobic conditions for reductive dechlorination, and to evaluate the effectiveness of the anaerobic conditions to reduce the chlorinated hydrocarbon concentrations in groundwater. This evaluation includes a discussion of the pre- and post-injection monitoring data in relationship to the performance objectives.

4.1 ELECTRON DONOR DISTRIBUTION AND WATER LEVELS

The injection pilot test was designed with a spacing of 20 feet between points along each profile and the profiles spaced 20 to 30 feet apart. The volume of the injected solution was calculated to influence an area of 5 to 10 feet around each injection point. The injection points were arranged around existing monitoring wells such that groundwater samples collected from these wells could evaluate the distribution of electron donor in the subsurface. During the injection process, groundwater levels were also monitored each day in a network of wells in and around the injection area to determine if there was potential mounding of the groundwater table due to the injection process.

The results of the TOC analysis in MW-2 and MW-42 indicate that the EVO was distributed throughout the injection area and in the area downgradient of the injection area. Graph 1 shows the TOC concentrations in monitoring wells MW-1, MW-2, MW-42, and OP-14.

Monitoring well MW-2 is located approximately 20 to 30 feet downgradient of the injection area and MW-42 is located in between the injection profiles. The TOC concentrations in these wells increased from a pre-injection concentration of approximately 2 mg/L to a post-injection concentration of 100 to 200 mg/L. Monitoring well MW-1R is located approximately 30 feet sidegradient of the injection area and monitoring well OP-14 is located approximately 50 to 60 feet downgradient of the injection area. The TOC concentrations in these wells only slightly increased from the pre-injection TOC concentrations of 1 to 2 mg/L to post-injection TOC concentrations of 5 to 7 mg/L.

Following injection, the EVO migration is retarded by soils and the naturally occurring organic material in the soils. The difference in the TOC concentrations in the monitoring wells in the injection area and the wells sidegradient and downgradient of the injection area indicate that the EVO distribution from the injection extends approximately 30 feet.

Water levels were measured each day during the injection activities and are summarized on Table 4. The results of the water level measurements indicate that the groundwater elevation was minimally influenced by the pilot test injection activities. The groundwater elevations in each well were compared to the initial elevation on October 8, 2019, to calculate



the relative elevation difference over the injection period. Graph 2 shows the fluctuation in groundwater elevation during the injection period.

The water level measurements in monitoring wells MW-1R, MW-2, and MW-42 showed a daily increase in elevation of approximately 1 to 3 inches during the daily injection period. The large elevation change shown for MW-42 on October 14, 2019, is due to performing injections at multiple locations close to MW-42 simultaneously to inject additional electron donor in the center of the TCE groundwater plume. The fluctuation in each well was dependent on the location of the monitoring well in relationship to the injection points that were being performed on each day. A review of the groundwater elevations indicates that the elevations recovered to approximately the same elevation as the initial elevation in the respective wells prior to the injection activities. This minimal fluctuation indicates that the groundwater injection activities in the pilot test area did not significantly change the groundwater flow in the injection area or cause the chlorinated hydrocarbon distribution to be influenced by the injection activities.

The water levels in MW-41 and OP-14 did not generally indicate an appreciable fluctuation in the groundwater elevation during the injection period. These wells are located sidegradient (MW-41) and at a greater distance downgradient (OP-14) than the other wells that indicated fluctuations in the elevation. This is an indication that the soils were able to dissipate the additional water injected during the pilot test over a short distance without changing the hydraulic gradient.

Based on the distribution of electron donor and the minimal change in groundwater elevations during the injection pilot test, the pilot test demonstrated that the injection of an electron donor can be distributed successfully at the Site without causing migration of the chlorinated hydrocarbons.

4.2 GROUNDWATER CONDITIONS

The purpose of injecting an electron donor is to create a groundwater environment that allows for efficient reductive dechlorination of the chlorinated hydrocarbons in groundwater. This environment is characterized by low concentrations of DO, nitrate, and sulfate, and elevated concentrations of dissolved iron and methane. Geochemical indicator parameters were monitored pre- and post-injection to evaluate if anaerobic conditions existed in the groundwater.

The following table shows the typical concentration of the electron acceptors and the biodegradation by-products that are indicative of strongly reducing, anaerobic conditions and the actual concentrations of these parameters measured during the post-injection monitoring.

Parameter	Typical Concentration	Actual Concentration
DO	<0.5 mg/L	0.34 to 1.23 mg/L
ORP	<50 to <-100 mg/L	-81.7 to -135 mV
Nitrate	<1.0 mg/L	<0.075 to 0.14 mg/L
Sulfate	<20 mg/L	2.2 to 17 mg/L
Ferrous Iron	>1.0 mg/L	4.0 to 35.6 mg/L
Methane	<0.5 mg/L	0.196 to 0.489 mg/L

Notes:

1. Note that nitrate was not included in the post-injection monitoring program because the concentrations measured in the groundwater were significantly less than 1.0 mg/L.

DO and ORP are measured with field instruments during low-flow groundwater sampling because these parameters change rapidly once the water is extracted from the well. Some fluctuations of these parameters are measured during the post-injection monitoring, which can be a result of either or both the groundwater conditions and the field instrument being used. These are indicator parameters that support the laboratory data collected for the other parameters. The DO and ORP measured during post-injection monitoring are shown on Graphs 3 and 4, respectively.



The DO in monitoring wells MW-2 and MW-42, in or near the injection area, had concentrations of 0.5 to 1.0 mg/L. Monitoring well OP-14, furthest from the injection area, had a concentration unchanged from pre- to post-injection. Graph 3 indicates that the electron donor reduced the DO concentrations in the injection area.

The ORP measured in monitoring wells MW-2 and MW-42 decreased to less than -100 mV during the post-injection monitoring. The ORP in monitoring wells MW-1 and OP-14 had measurements unchanged from pre-injection to post-injection. These wells are further from the injection area, indicating that the reducing environment had not migrated to the area of these wells at the time of the post-injection monitoring period. The ORP in these wells may decrease over time as the EVO is degraded and the anaerobic conditions persist.

Under increasingly anaerobic reducing conditions, ferric iron is used as an electron acceptor and is reduced to ferrous iron, which is soluble in groundwater. Graph 5 shows the dissolved iron concentrations in the injection area prior to and following the electron donor injection. The pre-injection dissolved iron concentration was approximately 35 to 40 mg/L. Following injection, the dissolved iron concentrations in MW-2 and MW-42, in and downgradient of the injection area, increased to 4,000 and 35,000 mg/L, respectively. The concentration in MW-42 increased more quickly than MW-2 because MW-42 is located within the injection area and MW-2 is located approximately 30 feet downgradient, which is an indication of the increase in anaerobic reducing conditions over time and distance. The dissolved iron concentrations in monitoring wells MW-1 and OP-14 did not change, indicating that the injection pilot test did not affect the groundwater in the area of these wells.

Sulfate concentrations in the injection area have significantly decreased since the injection of the electron donor. Graph 6 shows the sulfate concentration in the injection area as measured during the post-injection performance monitoring. The pre-injection sulfate concentration in the pilot test area ranged from 60 to 200 mg/L. From October 2019 through April 2020, the sulfate concentration in MW-2 and MW-42, in and downgradient of the injection area, decreased to approximately 15 and 5 mg/L, respectively. This reduction in the sulfate concentrations is evidence that the groundwater in the injection area is under strongly reducing conditions as a result of the injection of the electron donor. The sulfate concentrations in wells MW-1 and OP-14 have not indicated decreases in concentrations, which is evidence that the electron donor injection has not affected the groundwater in the area of these wells.

Methane concentrations in the injection area have significantly increased since the injection of the electron donor. Graph 7 shows the methane concentration in the injection area, as measured during the post-injection performance monitoring. Methane generation is an indication of strongly reducing anaerobic conditions because the methanogenic microbes are anaerobes. The concentrations of methane in MW-2 and MW-42 increased significantly during the January 2020 performance monitoring event. This lag time in the generation of methane following the injection of electron donor is typical. Methane is typically not generated until oxygen, nitrate, ferric iron, and sulfate concentrations have been depleted. The methane concentrations in MW-1 and OP-14 have remained unchanged, indicating that the injection pilot test has not affected the groundwater conditions in these wells.

The post-injection performance monitoring data through April 2020 indicate that the pilot test electron donor injection has successfully created strongly reducing, anaerobic conditions favorable for reductive dechlorination within and downgradient of the injection area. The groundwater results indicate that the electron donor is creating the strongly reducing anaerobic conditions within the injection area. However, as to the wells outside of this area, there is no evidence of changes in the groundwater condition.

4.3 GROUNDWATER CONCENTRATIONS

The strongly reducing, anaerobic conditions created by the injection of the electron donor are favorable for the reductive dechlorination of chlorinated hydrocarbons. Reductive dechlorination refers to the process of successively removing one



chlorine atom from the contaminant, thus producing more reduced daughter products until the chlorinated hydrocarbons are reduced to ethene. The reductive dechlorination process begins with the anaerobic fermentation of the EVO electron donor to create molecular hydrogen and acetate. The molecular hydrogen is consumed by various reactions, including the electron acceptors, DO, nitrate, and sulfate, to create successively stronger anaerobic conditions. The acetate generated during fermentation is utilized as a carbon source by bacteria (dehalococoides) to facilitate reductive dechlorination and replace the chlorine atoms with hydrogen. Some of the acetate not used in the reductive dechlorination process may be fermented to methane. In Section 4.2, the performance monitoring data was presented to demonstrate that the injection of the electron donor has created strongly reducing, anaerobic groundwater conditions. The groundwater performance monitoring data presented in this section demonstrates that the reductive dechlorination process is remediating the groundwater by reducing the chlorinated hydrocarbon concentrations to less chlorinated daughter products. Table 2 presents the laboratory analytical results of the post-injection monitoring and Table 5 presents an evaluation of the post-performance monitoring data.

4.3.1 Pre- and Post-Injection Monitoring Comparison

The performance monitoring data indicates that the pilot test has reduced the chlorinated hydrocarbon concentrations in the injection area. Figures 11, 12, and 13 show the groundwater distribution of TCE, cis-1,2-DCE, and vinyl chloride from June 2019 through April 2020. The pre- and post- injection concentrations in the wells within and downgradient of the injection area are summarized below.

Analyte	ES	Timing	MW-1R	MW-2	MW-42	OP-14
TCE (mg/L)	5	Pre-Injection	0.37	2,770	14,200	341
	5	Post-Injection	0.89	9.2	567	243
cis-1,2-DCE (mg/L)	70	Pre-Injection	<0.27	6.8	3	8.5
	70	Post-Injection	0.34	113	441	221
Vinyl Chloride (mg/L)	2	Pre-Injection	<0.17	<4.4	<0.17	<0.44
	2	Post-Injection	<0.17	13.7	1.7	<0.7

Figure 11 shows the TCE concentrations through time from pre- to post-injection. The highest pre-injection concentrations were along the apparent centerline of the TCE plume from MW-42 to MW-2 and had concentrations that exceeded 5,000 mg/L. The pilot test resulted in a reduction of the TCE concentrations and a contraction of the TCE plume, as shown by the change in the 50 and 500 mg/L contour lines. These contour lines have contracted to the east indicating that the TCE concentrations were reduced by the pilot test. The concentrations in this area are reduced by several orders of magnitude as compared to the pre-injection concentrations.

Figure 12 shows the cis-1,2-DCE concentrations through time from pre- to post-injection. The pre-injection groundwater monitoring in the injection area prior to the pilot test indicated very low levels of cis-1,2-DCE. Prior to the injection, this area historically had low levels of cis-1,2-DCE and the secondary indicators (DO and ORP) did not indicate the degradation of chlorinated hydrocarbons. Following the injection pilot test, a significant increase in the concentration of cis-1,2-DCE is present in MW-2 and MW-42; the concentrations have increased by several orders of magnitude. The increase in concentrations was first detected in MW-2 as soon as one month after injection, downgradient of the injection area, and has increased in MW-42 over time.

Figure 13 shows the vinyl chloride concentrations through time from pre- to post-injection. The pre-injection concentration contours shown on Figure 13 in this area are based on elevated detection limits for the monitoring wells in the injection area and not actual vinyl chloride concentrations. Since the injection pilot test, the concentrations of vinyl chloride in MW-2 and MW-42 have significantly increased.



The presence of the daughter products cis-1,2-DCE and vinyl chloride indicates injection of an electron donor is capable of creating conditions favorable for reductive dechlorination and that it is possible to enhance the reductive dechlorination process to reduce the groundwater concentrations.

The results of the post-injection performance monitoring have not detected the presence of ethene in groundwater. Ethene is the final degradation product in the process and its presence is an indication that the electron donor can completely degrade the chlorinated hydrocarbons. The post-injection monitoring was performed for six months following the injection. As the levels of TCE and daughter products continue to degrade, it is expected that ethene will be detected in monitoring wells in this area.

4.3.2 Other Pilot Test Injection Evaluation

The injection of solution during the pilot test introduces additional water that does not contain TCE or its daughter products, which can cause dilution to reduce contaminant concentrations. During the pilot test, approximately 17,000 gallons of solution were injected within the injection area. The injection area is approximately 140 feet long by 80 feet wide by 10 feet thick. The volume of groundwater in the injection area is calculated to be approximately 251,000 gallons. Assuming an average TCE concentration of 5,000 mg/L in MW-2 and MW-42, the maximum dilution effect from the injection solution would result in a theoretical decrease in TCE concentration of approximately 300 mg/L. As the decrease in concentration as measured in MW-2 and MW-42 one month after the injection (2,530 and 9,430 mg/L, respectively) was significant more than the 300 mg/L theoretical dilution factor, the decrease in groundwater concentrations does not appear to be caused by dilution.

The analytical laboratory reports groundwater concentrations on a mass per volume basis (mg/L), which is used for comparison of the sample to the WDNR NR 140 ESs for compliance purposes. The injection of EVO can cause dissolved chlorinated hydrocarbons to be sequestered and be bound in the EVO until degradation, at which time it is released into the groundwater. To evaluate the potential for the EVO to sequester dissolved chlorinated hydrocarbons, the groundwater concentrations were converted to molar concentrations. It is known that during the reductive dechlorination process, one chlorine atom is removed from the contaminant to form a daughter product that is less chlorinated while preserving the carbon structure. This means that the reductive dechlorination of one mole of TCE produces one mole of cis-1,2-DCE that produces one mole of vinyl chloride. During this process, the total number of moles of chlorinated hydrocarbons would remaining relatively constant through complete degradation.

The groundwater concentrations for TCE, cis-1,2-DCE, and vinyl chloride were converted to molar concentrations by dividing the groundwater concentration for each respective constituent by its molecular weight and summing the chlorinated hydrocarbon molar concentrations in each sample. For samples results with analyte concentrations reported as being less than the method detection limit, the method detection limit was used to calculate the molar concentration for that analyte. Graphs showing the molar concentrations for monitoring wells MW-2, MW-42, and OP-14 are presented on Graphs 8 through 10, respectively, and the results of the molar concentration calculations are shown on Table 5.

Graphs 8 and 9 show the molar concentrations for MW-1R and OP-14, respectively. The contaminant concentrations and the molar concentrations in MW-1R are very low with most concentrations being less than the method detection limit. This well is sidegradient to the injection area. The lack of contaminant concentrations and molar concentrations is an indication that the pilot test did not cause migration of the chlorinated hydrocarbons into the area around this well. The contaminant and molar concentrations in OP-14, located downgradient of the injection area, indicate an increase in cis-1,2-DCE by more than an order of magnitude and a slight decrease in TCE concentrations. This increase in cis-1,2-DCE indicates that the influence from the pilot test may reach this well as the EVO degrades and releases dissolved organic



carbon into the groundwater. These wells were not expected to indicate much influence from the pilot test because the performance monitoring period was only six months.

Graphs 10 and 11 show the molar concentrations for MW-2 and MW-42, respectively. The molar concentrations for MW-2 indicate a significant decrease in TCE during the first two monthly monitoring events with a subsequent increase in cis-1,2-DCE during the same period. The molar concentration of vinyl chloride also increased during the second monitoring event. Since the second monitoring event, the rate of decrease in the TCE molar concentration has slowed and cis-1,2-DCE and vinyl chloride continue to indicate decreasing trends. The decrease in TCE molar concentration over the first two monitoring events was compared to the commensurate increase in the molar concentration for cis-1,2-DCE and vinyl chloride over this same period. The first two monitoring events were used for this comparison in this well because by the third event, the slope of the TCE molar concentration flattens indicating that cis-1,2-DCE and vinyl chloride would also flatten. This comparison indicates that the TCE molar reduction was approximately 21 mole/L and the cis-1,2-DCE and vinyl chloride molar increase was approximately 19.7 mole/L. The monitoring data for the entire performance monitoring period indicates an approximate 99% molar reduction of TCE in MW-2. Based on this evaluation, it appears that the decrease in TCE concentration is primarily the result of the reductive dechlorination process and that other processes did not cause the decrease in concentration.

The molar concentrations for MW-42 indicate a significant decrease in TCE during the first two monitoring events and an increase in the cis-1,2-DCE and vinyl chloride during the same period. The total TCE molar concentration decrease was approximately 78.50 mole/L and the cis-1,2-DCE and vinyl chloride molar concentration increase was approximately 13 mole/L. The monitoring data for the entire performance monitoring period indicates an approximate 96% molar reduction in MW-2. There is a significant discrepancy between these molar concentrations, which indicates that other processes may have contributed to the TCE molar concentration decrease. This well is located in the middle of the injection area and has the highest concentration of TCE. The injection of the solution around this well likely caused some dilution of the groundwater concentrations, but this dilution cannot be attributed for the decrease measured. The EVO injected around this well likely is sequestering some of the dissolved TCE groundwater concentrations within the oil and, therefore, is not measured in the groundwater. The last two sampling events in January and April 2020, indicate that the TCE concentration has flattened, which may be an indication of the sequestered TCE being released into the groundwater. As the EVO is degraded, sequestered TCE will be released to the groundwater and it is possible that the groundwater concentrations of TCE may fluctuate or remain flat throughout the degradation of the EVO. Once the TCE is released into the groundwater by the degrading EVO, the reductive dechlorination process will continue to treat the chlorinated hydrocarbons.

Overall, the results of the electron donor injection pilot test demonstrate the feasibility of using this technology to enhance the groundwater conditions to create an anaerobic treatment zone. The electron donor injection may cause some initial concentration reduction due to other processes such as sequestration; however, once the electron donor degrades, the chlorinated hydrocarbons released will be degraded. The pilot test area will continue to be monitored and the data evaluated to determine if additional remedial action is necessary in this area.

5.0 CONCLUSIONS

The pilot test implementation and the subsequent performance monitoring have confirmed the feasibility of using this remedial strategy as an effective remedial action to remediate the chlorinated hydrocarbon-affected groundwater at the Site. Below is a summary of the results of the pilot test.

1. During the injection activities, groundwater elevations were monitored to demonstrate that the EVO injection did not significantly change the hydraulic gradient or cause the groundwater plume to migrate. The groundwater elevations



in the wells in the immediate area of the injection points were observed to increase during the injection by approximately 3 to 4 inches. The groundwater elevations recovered to approximately the pre-injection elevation by the start of the following day, indicating that the subsurface soils were able to transmit the injected solution throughout the aquifer.

2. The EVO was able to be injected at a pressure of approximately 30 psi, which is within the requirements of the WDNR approval letter.
3. The injection of EVO at 28 points in the southwest corner of the Site created and maintained anaerobic conditions favorable for reductive dechlorination.
4. The DO, nitrate, and sulfate concentrations, and the ORP measurements in the injection area have decreased following the injection activities. The TOC, dissolved iron, and methane concentrations have increased in the injection area. These changes in the groundwater condition indicate that the conditions are favorable for reductive dechlorination.
5. The radius of influence from the injection appears to be approximately 30 feet, as demonstrated by the increase in TOC in MW-2, which is 30 feet downgradient of the injection profiles. This radius of influence may continue to expand as the EVO degrades, but the TOC increased in MW-2 within 30 days of the injection activities.
6. The chlorinated hydrocarbon concentrations in monitoring wells MW-2 and MW-42 have demonstrated a reduction in TCE concentrations of 99% and 96%, respectively. The concentration decrease has caused the distribution isoconcentration contours to recede back toward MW-2.
7. The molar concentration data from the performance monitoring indicates that a portion of the dissolved TCE in groundwater in the area of MW-42 may be sequestered in the EVO. The molar concentration decrease in TCE in this area is much larger than the increase in molar concentration in daughter products, indicating that the reductive dechlorination process is not the only process affecting the TCE groundwater concentration. Sequestration of dissolved concentrations by EVO commonly occurs with the injection of EVO into groundwater.

Based on the mass and concentration reduction confirmed from the pilot test, GZA proposes to implement a full-scale injection program in other areas of the Site with groundwater concentrations that exceed the NR 140 ES. The temporary exemption and variance documentation for a full-scale injection program is currently under preparation and will be submitted to the WDNR under separate cover.



TABLES

TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS
PRE- AND POST-INJECTION
Former Trent Tube Plant No. 1
East Troy, Wisconsin

WELL ID	NORTH	EAST	DATE	GROUND SURFACE ELEVATION* (ft amsl)	TOC ELEVATION (ft)*	DEPTH TO WATER (ft)	DEPTH TO BOTTOM (ft)	GROUNDWATER ELEVATION (ft)
MW-1R	15542906.13	1263470.32	9/17/19	837.88	839.95	13.14	25.05	826.81
	15542906.13	1263470.32	11/20/19	837.88	839.95	13.03	25.05	826.92
	15542906.13	1263470.32	12/19/19	837.88	839.95	13.08	25.05	826.87
	15542906.13	1263470.32	1/22/20	837.88	839.95	13.08	25.05	826.87
	15542906.13	1263470.32	4/16/20	837.88	839.95	13.14	25.05	826.81
MW-2	15542801.87	1263478.62	9/17/19	834.15	836.8	10.88	18.90	825.92
	15542801.87	1263478.62	11/20/19	834.15	836.8	9.86	18.90	826.94
	15542801.87	1263478.62	12/19/19	834.15	836.8	9.91	18.90	826.89
	15542801.87	1263478.62	1/22/20	834.15	836.8	9.82	18.90	826.98
	15542801.87	1263478.62	4/16/20	834.15	836.8	9.76	18.90	827.04
MW-4	15542726.05	1263625.68	9/17/19	837.14	838.97	12.45	22.35	826.52
	15542726.05	1263625.68	11/20/19	837.14	838.97	12.39	22.35	826.58
	15542726.05	1263625.68	12/19/19	837.14	838.97	12.72	22.35	826.25
	15542726.05	1263625.68	1/22/20	837.14	838.97	12.99	22.35	825.98
	15542726.05	1263625.68	4/16/20	837.14	838.97	12.61	22.35	826.36
MW-7R	15542916.44	1264282.04	9/17/19	821.97	824.44	NM	22.35	NM
	15542916.44	1264282.04	11/21/19	821.97	824.44	5.51	22.35	818.93
	15542916.44	1264282.04	12/19/19	821.97	824.44	NM	22.35	NM
	15542916.44	1264282.04	1/22/20	821.97	824.44	NM	22.35	NM
	15542916.44	1264282.04	4/16/20	821.97	824.44	NM	22.35	NM
MW-11	15543255.49	1263495.29	9/17/19	844.61	844.33	NM	22.35	NM
	15543255.49	1263495.29	11/21/19	844.61	844.33	11.10	22.35	833.23
	15543255.49	1263495.29	12/19/19	844.61	844.33	NM	22.35	NM
	15543255.49	1263495.29	1/22/20	844.61	844.33	NM	22.35	NM
	15543255.49	1263495.29	4/16/20	844.61	844.33	NM	22.35	NM
MW-12	15543080.14	1264204.76	9/17/19	837.68	839.27	NM	22.35	NM
	15543080.14	1264204.76	11/20/19	837.68	839.27	12.58	22.35	826.69
	15543080.14	1264204.76	12/19/19	837.68	839.27	NM	22.35	NM
	15543080.14	1264204.76	1/22/20	837.68	839.27	NM	22.35	NM
	15543080.14	1264204.76	4/16/20	837.68	839.27	NM	22.35	NM
MW-13R	-	-	9/17/19	835.84	838.34	NM	22.35	NM
	-	-	11/20/19	835.84	838.34	12.69	22.35	825.65
	-	-	12/19/19	835.84	838.34	NM	22.35	NM
	-	-	1/22/20	835.84	838.34	NM	22.35	NM
	-	-	4/16/20	835.84	838.34	NM	22.35	NM
MW-15	15543133.19	1264382.74	9/17/19	830.24	832.63	NM	22.35	NM
	15543133.19	1264382.74	11/20/19	830.24	832.63	13.00	22.35	819.63
	15543133.19	1264382.74	12/19/19	830.24	832.63	NM	22.35	NM
	15543133.19	1264382.74	1/22/20	830.24	832.63	NM	22.35	NM
	15543133.19	1264382.74	4/16/20	830.24	832.63	NM	22.35	NM

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MW-16	15542813.05	1263725.11	9/17/19	837.29	839.39	NM	22.35	NM
	15542813.05	1263725.11	11/20/19	837.29	839.39	11.20	22.35	828.19
	15542813.05	1263725.11	12/19/19	837.29	839.39	NM	22.35	NM
	15542813.05	1263725.11	1/22/20	837.29	839.39	NM	22.35	NM
	15542813.05	1263725.11	4/16/20	837.29	839.39	NM	22.35	NM
MW-17R	15543077.88	1263725.29	9/17/19	836.96	839.24	NM	22.35	NM
	15543077.88	1263725.29	11/20/19	836.96	839.24	6.52	22.35	832.72
	15543077.88	1263725.29	12/19/19	836.96	839.24	NM	22.35	NM
	15543077.88	1263725.29	1/22/20	836.96	839.24	NM	22.35	NM
	15543077.88	1263725.29	4/16/20	836.96	839.24	NM	22.35	NM
MW-18R	-	-	9/17/19	837.10	839.76	10.09	22.26	829.67
	-	-	11/21/19	837.10	839.76	10.20	22.26	829.56
	-	-	12/19/19	837.10	839.76	10.37	22.26	829.39
	-	-	1/22/20	837.10	839.76	10.34	22.26	829.42
	-	-	4/16/20	837.10	839.76	10.33	22.26	829.43
MW-19	15542879.48	1264308	9/17/19	818.85	822.59	NM	22.35	NM
	15542879.48	1264308	11/20/19	818.85	822.59	4.12	22.35	818.47
	15542879.48	1264308	12/19/19	818.85	822.59	NM	22.35	NM
	15542879.48	1264308	1/22/20	818.85	822.59	NM	22.35	NM
	15542879.48	1264308	4/16/20	818.85	822.59	NM	22.35	NM
MW-20	15543135.67	1264489.58	9/17/19	821.53	823.72	NM	22.35	NM
	15543135.67	1264489.58	11/20/19	821.53	823.72	4.27	22.35	819.45
	15543135.67	1264489.58	12/19/19	821.53	823.72	NM	22.35	NM
	15543135.67	1264489.58	1/22/20	821.53	823.72	NM	22.35	NM
	15543135.67	1264489.58	4/16/20	821.53	823.72	NM	22.35	NM
MW-25	15542680.62	1264216.31	9/17/19	821.17	823.63	NM	22.35	NM
	15542680.62	1264216.31	11/20/19	821.17	823.63	5.52	22.35	818.11
	15542680.62	1264216.31	12/19/19	821.17	823.63	NM	22.35	NM
	15542680.62	1264216.31	1/22/20	821.17	823.63	NM	22.35	NM
	15542680.62	1264216.31	4/16/20	821.17	823.63	NM	22.35	NM
MW-27	15542574.43	1263906.19	9/17/19	824.54	827.52	NM	22.35	NM
	15542574.43	1263906.19	11/20/19	824.54	827.52	4.09	22.35	823.43
	15542574.43	1263906.19	12/19/19	824.54	827.52	NM	22.35	NM
	15542574.43	1263906.19	1/22/20	824.54	827.52	NM	22.35	NM
	15542574.43	1263906.19	4/16/20	824.54	827.52	NM	22.35	NM
MW-29	15542434.19	1264197.84	9/17/19	825.61	828.91	NM	22.35	NM
	15542434.19	1264197.84	11/20/19	825.61	828.91	5.50	22.35	823.41
	15542434.19	1264197.84	12/19/19	825.61	828.91	NM	22.35	NM
	15542434.19	1264197.84	1/22/20	825.61	828.91	NM	22.35	NM
	15542434.19	1264197.84	4/16/20	825.61	828.91	NM	22.35	NM

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MW-37R	15543007.42	1263758.84	9/17/19	837.36	839.41	NM	22.35	NM
	15543007.42	1263758.84	11/20/19	837.36	839.41	7.46	22.35	831.95
	15543007.42	1263758.84	12/19/19	837.36	839.41	NM	22.35	NM
	15543007.42	1263758.84	1/22/20	837.36	839.41	NM	22.35	NM
	15543007.42	1263758.84	4/16/20	837.36	839.41	NM	22.35	NM
MW-38	-	-	9/17/19	836.40	839.15	10.03	19.34	829.12
	-	-	11/20/19	836.40	839.15	10.28	19.3	828.87
	-	-	12/19/19	836.40	839.15	10.41	19.3	828.74
	-	-	1/22/20	836.40	839.15	10.45	19.3	828.70
	-	-	4/16/20	836.40	839.15	10.48	19.3	828.67
MW-39	-	-	9/17/19	837.29	840.45	NM	19.34	NM
	-	-	11/20/19	837.29	840.45	12.62	19.3	827.83
	-	-	12/19/19	837.29	840.45	NM	19.3	NM
	-	-	1/22/20	837.29	840.45	NM	19.3	NM
	-	-	4/16/20	837.29	840.45	NM	19.3	NM
MW-40	-	-	9/17/19	837.44	840.35	NM	19.34	NM
	-	-	11/20/19	837.44	840.35	12.46	19.3	827.89
	-	-	12/19/19	837.44	840.35	NM	19.3	NM
	-	-	1/22/20	837.44	840.35	NM	19.3	NM
	-	-	4/16/20	837.44	840.35	NM	19.3	NM
MW-41	-	-	9/17/19	836.73	839.48	12.94	22.56	826.54
	-	-	11/20/19	836.73	839.48	12.16	22.1	827.32
	-	-	12/19/19	836.73	839.48	12.32	22.1	827.16
	-	-	1/22/20	836.73	839.48	12.31	22.1	827.17
	-	-	4/16/20	836.73	839.48	12.18	22.1	827.30
MW-42	-	-	9/17/19	837.20	839.70	11.88	22.21	827.82
	-	-	11/20/19	837.20	839.70	11.74	22.3	827.96
	-	-	12/19/19	837.20	839.70	11.79	22.3	827.91
	-	-	1/22/20	837.20	839.70	11.74	22.3	827.96
	-	-	4/16/20	837.20	839.70	11.49	22.3	828.21
OP-2	15542625.55	1263776.69	9/17/19	833.95	836.69	NM	22.35	NM
	15542625.55	1263776.69	11/20/19	833.95	836.69	15.19	22.35	821.50
	15542625.55	1263776.69	12/19/19	833.95	836.69	NM	22.35	NM
	15542625.55	1263776.69	1/22/20	833.95	836.69	NM	22.35	NM
	15542625.55	1263776.69	4/16/20	833.95	836.69	NM	22.35	NM
OP-3	15542699.53	1263909.48	9/17/19	830.64	831.29	NM	22.35	NM
	15542699.53	1263909.48	11/20/19	830.64	831.29	13.11	22.35	818.18
	15542699.53	1263909.48	12/19/19	830.64	831.29	NM	22.35	NM
	15542699.53	1263909.48	1/22/20	830.64	831.29	NM	22.35	NM
	15542699.53	1263909.48	4/16/20	830.64	831.29	NM	22.35	NM

TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS
PRE- AND POST-INJECTION
Former Trent Tube Plant No. 1
East Troy, Wisconsin

WELL ID	NORTH	EAST	DATE	GROUND SURFACE ELEVATION* (ft amsl)	TOC ELEVATION (ft)*	DEPTH TO WATER (ft)	DEPTH TO BOTTOM (ft)	GROUNDWATER ELEVATION (ft)
OP-9	15542998.67	1264155.38	9/17/19	836.39	838.54	NM	21.95	NM
	15542998.67	1264155.38	11/20/19	836.39	838.54	11.81	21.95	826.73
	15542998.67	1264155.38	12/19/19	836.39	838.54	NM	21.95	NM
	15542998.67	1264155.38	1/22/20	836.39	838.54	NM	21.95	NM
	15542998.67	1264155.38	4/16/20	836.39	838.54	NM	21.95	NM
OP-14	15542735.68	1263504.52	9/17/19	837.15	837.86	12.60	21.95	825.26
	15542735.68	1263504.52	11/20/19	837.15	837.86	10.81	21.95	827.05
	15542735.68	1263504.52	12/19/19	837.15	837.86	11.27	21.95	826.59
	15542735.68	1263504.52	1/22/20	837.15	837.86	11.07	21.95	826.79
	15542735.68	1263504.52	4/16/20	837.15	837.86	10.79	21.95	827.07

Notes:

1. ft amsl = feet above mean sea level.
2. TOC = top of casing.
3. ft = feet.
4. NM = not measured.

TABLE 2
SUMMARY OF PILOT TEST GROUNDWATER ANALYTICAL RESULTS
Former Trent Tube Plant No. 1
East Troy, Wisconsin

	1,1,1-Trichloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichloroethane	Benzene	Chloroethane	Methylene Chloride	Naphthalene	Tetrachloroethene	Toluene	Trichloroethene	Vinyl chloride	cis-1,2-Dichloroethene	o-Xylene	trans-1,2-Dichloroethene	Ethane	Ethene	Methane	Iron, dissolved	Manganese, dissolved	Sulfate (mg/L)	Alkalinity, total as CaCO ₃ (mg/L)	Total Organic Carbon (mg/L)	
Preventive Action Limit	40	0.5	85	0.7		0.5	80	0.5	10	0.5	160	0.5	0.02	7		20					60				
Enforcement Standard	200	5	850	7	5	5	400	5	100	5	800	5	0.2	70		100					300				
Well Number	Date																								
MW-01R	9/18/19	0.86 J	< 0.55 U	0.6 J	< 0.24 U	< 0.28 U	< 0.25 U	< 1.3 U	< 0.58 U	< 1.2 U	1.1 J	< 0.17 U	0.37 J	< 0.17 U	< 0.27 U	< 0.26 U	< 1.1 U	< 1.2 U	< 1.2 U	< 0.66 U	< 35.4 U	NA	153	NA	1.4
	11/20/19	0.9 J	< 0.55 U	1.4	< 0.24 U	< 0.28 U	< 0.25 U	< 1.3 U	< 0.58 U	< 1.2 U	0.49 J	< 0.17 U	< 0.26 U	< 0.17 U	< 0.27 U	< 0.26 U	< 1.1 U	< 1.2 U	< 1.2 U	< 0.66 U	< 29.6 U	79.6	233	309	5.7
	12/19/19	1.2	< 0.55 U	0.94 J	< 0.24 U	< 0.28 U	< 0.25 U	< 1.3 U	< 0.58 U	< 1.2 U	< 0.33 U	< 0.17 U	< 0.26 U	< 0.17 U	< 0.27 U	< 0.26 U	< 1.1 U	< 1.2 U	< 1.2 U	< 0.66 U	< 29.6 U	NA	285	NA	3.7
	1/22/20	1.4	< 0.55 U	0.34 J	< 0.24 U	< 0.28 U	< 0.25 U	< 1.3 U	< 0.58 U	< 1.2 U	< 0.33 U	< 0.17 U	< 0.26 U	< 0.17 U	< 0.27 U	< 0.26 U	< 1.1 U	< 1.2 U	< 1.2 U	< 0.66 U	< 29.6 U	NA	177	NA	2.7
	4/16/20	0.50	< 0.55	1.9	< 0.24	< 0.28	< 0.25	< 1.3	< 0.58	< 1.2	< 0.33	< 0.27	0.89	< 0.17	0.34	< 0.26	< 0.46	< 1.2	< 1.2	< 0.66	< 29.6	NA	323	NA	6.3
MW-02	9/18/19	6.9 J	< 13.8 U	< 6.8 U	< 6.1 U	< 7 U	< 6.2 U	< 33.6 U	< 14.5 U	< 29.4 U	< 8.2 U	< 4.3 U	2,770	< 4.4 U	< 6.8 U	< 6.5 U	< 27.3 U	< 1.2 U	< 1.2 U	< 0.66 U	< 35.4 U	NA	193	NA	2.5
	11/20/19	< 6.1 U	< 13.8 U	< 6.8 U	< 6.1 U	< 7 U	< 6.2 U	< 33.6 U	< 14.5 U	< 29.4 U	< 8.2 U	< 4.3 U	240	< 4.4 U	1,230	< 6.5 U	< 27.3 U	< 1.2 U	< 1.2 U	< 0.66 U	< 29.6 U	9,220	84.9	809	171
	12/19/19	< 4.9 U	< 11 U	< 5.5 U	< 4.9 U	< 5.6 U	< 4.9 U	< 26.8 U	< 11.6 U	< 23.5 U	< 6.5 U	< 3.4 U	23.7	48.7	1,850	< 5.2 U	< 21.8 U	< 1.2 U	< 1.2 U	< 0.66 U	286	NA	28.4	NA	321
	1/22/20	3.2 J	< 2.8 U	5 J	< 1.2 U	< 1.4 U	< 1.2 U	< 6.7 U	2.9 J	< 5.9 U	< 1.6 U	< 0.86 U	13.2	27.2	669	< 1.3 U	< 5.5 U	< 1.2 U	< 1.2 U	1.2 J	996	NA	13.8	NA	275
	4/16/20	< 2.4	< 5.5	5.3	< 2.4	< 2.8	< 2.5	< 13.4	< 5.8	< 11.8	< 3.3	< 2.7	9.2	13.7	113	< 2.6	< 4.6	< 1.2	< 1.2	489	4020	NA	17	NA	99.6
MW-04	9/18/19	5	< 1.4 U	0.75 J	< 0.61 U	< 0.7 U	< 0.62 U	< 3.4 U	< 1.5 U	< 2.9 U	4.3	< 0.43 U	322	0.5 J	16.6	< 0.65 U	< 2.7 U	< 1.2 U	< 1.2 U	< 0.66 U	< 35.4 U	NA	92.3	NA	2
	11/20/19	2.4 J	< 1.4 U	< 0.68 U	< 0.61 U	< 0.7 U	< 0.62 U	< 3.4 U	< 1.5 U	< 2.9 U	2.5 J	< 0.43 U	132	< 0.44 U	5.2	< 0.65 U	< 2.7 U	< 1.2 U	< 1.2 U	< 0.66 U	246	1,060	41	270	4.7
	12/19/19	2.3	< 1.1 U	1.8 J	< 0.49 U	< 0.56 U	< 0.49 U	< 2.7 U	< 1.2 U	< 2.4 U	3	< 0.34 U	117	< 0.35 U	16.9	< 0.52 U	< 2.2 U	< 1.2 U	< 1.2 U	< 0.66 U	44.9 J	NA	34.5	NA	3.8
	1/22/20	2.6	< 0.55 U	1.6	< 0.24 U	< 0.28 U	< 0.25 U	< 1.3 U	< 0.58 U	< 1.2 U	2.4	< 0.17 U	111	< 0.17 U	4.5	< 0.26 U	< 1.1 U	< 1.2 U	< 1.2 U	< 0.66 U	< 29.6 U	NA	26.9	NA	2.4
	4/16/20	2.8	< 1.4	1.1 J	1.0 J	< 0.70	< 0.62	< 3.4	< 1.5	< 2.9	2.7 J	< 0.67	161	< 0.44	178	< 0.65	< 1.2	< 1.2	< 1.2	< 0.66	< 29.6	NA	31.8	NA	2.7
MW-18R	9/18/19	4	< 0.55 U	7.2	5.9	< 0.28 U	< 0.25 U	< 1.3 U	< 0.58 U	< 1.2 U	0.85 J	< 0.17 U	1,570	26	738	< 0.26 U	15.6	< 1.2 U	1.3 J	246	< 35.4 U	NA	107	NA	2.2
	11/21/19	< 4.9 U	< 11 U	< 5.5 U	< 4.9 U	< 5.6 U	< 4.9 U	< 26.8 U	< 11.6 U	< 23.5 U	< 6.5 U	< 3.4 U	912	38.4	537	< 5.2 U	< 21.8 U	< 1.2 U	< 1.2 U	263	< 29.6 U	742	78.4	299	1.7
	12/19/19	< 2.4 U	< 5.5 U	< 2.7 U	5.4 J	< 2.8 U	< 2.5 U	< 13.4 U	< 5.8 U	< 11.8 U	< 3.3 U	< 1.7 U	2,270	43	792	< 2.6 U	21.7 J	1.4 J	< 1.2 U	422	< 29.6 U	NA	73	NA	2
	1/22/20	< 4.9 U	< 11 U	< 5.5 U	< 4.9 U	< 5.6 U	< 4.9 U	< 26.8 U	< 11.6 U	< 23.5 U	< 6.5 U	< 3.4 U	3,530	22.3	888	< 5.2 U	40.8 J	< 1.2 U	< 1.2 U	761	< 29.6 U	NA	75.6	NA	2
	4/16/20	< 2.4	< 5.5	6.5	2.9	< 2.8	< 2.5	< 13.4	< 5.8	< 11.8	< 3.3	< 2.7	820	44	461	< 2.6	8	< 1.2	< 1.2	625	< 29.6	NA	84.9	NA	2.3
MW-38	9/18/19	0.33 J	< 0.55 U	< 0.27 U	< 0.24 U	< 0.28 U	< 0.25 U	< 1.3 U	< 0.58 U	< 1.2 U	< 0.33 U	< 0.17 U	< 0.26 U	< 0.17 U	< 0.27 U	< 0.26 U	< 1.1 U	< 1.2 U	< 1.2 U	< 0.66 U	< 35.4 U	NA	88.7	NA	1.3
	11/20/19	0.31 J	< 0.55 U	< 0.27 U	< 0.24 U	< 0.28 U	< 0.25 U	< 1.3 U	< 0.58 U	< 1.2 U	< 0.33 U	< 0.17 U	0.57 J	< 0.17 U	< 0.27 U	< 0.26 U	< 1.1 U	< 1.2 U	< 1.2 U	< 0.66 U	< 29.6 U	< 1.1 U	92.4	207	NA
	12/19/19	< 0.24 U	< 0.55 U	< 0.27 U	< 0.24 U	< 0.28 U	< 0.25 U	< 1.3 U	< 0.58 U	< 1.2 U	< 0.33 U	< 0.17 U	< 0.26 U	< 0.17 U	< 0.27 U	< 0.26 U	< 1.1 U	< 1.2 U	< 1.2 U	< 0.66 U	< 29.6 U	NA	101	NA	1.4
	1/22/20	< 0.24 U	< 0.55 U	< 0.27 U	< 0.24 U	< 0.28 U	< 0.25 U	< 1.3 U	< 0.58 U	< 1.2 U	< 0.33 U	< 0.17 U	< 0.26 U	< 0.17 U	< 0.27 U	< 0.26 U	< 1.1 U	< 1.2 U	< 1.2 U	< 0.66 U	< 29.6 U	NA	91.2	NA	1.5
	4/16/20	< 0.24	< 0.55	< 0.27	< 0.24	< 0.28	< 0.25	< 1.3	< 0.58	< 1.2	< 0.33	< 0.27	< 0.26	< 0.17	< 0.27	< 0.26	< 0.46	< 1.2	< 1.2	< 0.66	< 29.6	NA	78.9	NA	1.3
MW-41	9/18/19	2.9	< 0.55 U	0.88 J	< 0.24 U	< 0.28 U	< 0.25 U	< 1.3 U	< 0.58 U	< 1.2 U	1.9	< 0.17 U	1,450	< 0.17 U	1.1	< 0.26 U	< 1.1 U	< 1.2 U	< 1.2 U	< 0.66 U	< 35.4 U	NA	63.5	NA	1.6
	11/20/19	2.1	< 0.55 U	1.7	< 0.24 U	< 0.28 U	< 0.25 U	< 1.3 U	< 0.58 U	< 1.2 U	1.1 J	< 0.17 U	30.2	< 0.17 U	3.6	< 0.26 U	< 1.1 U	< 1.2 U	< 1.2 U	< 0.66 U	93 J	805	43.1	401	57.7
	12/19/19	2.6	< 0.55 U	4	< 0.24 U	< 0.28 U	< 0.25 U	< 1.3 U	< 0.58 U	< 1.2 U	0.86 J	< 0.17 U	32.3	< 0.17 U	3.9	< 0.26 U	< 1.1 U	< 1.2 U	< 1.2 U	< 0.66 U	65.3 J	NA	52.1	NA	2
	1/22/20	2.3	< 0.55 U	1.1	< 0.24 U	< 0.28 U	< 0.25 U	< 1.3 U	< 0.58 U	< 1.2 U	1.1 J	< 0.17 U	77.1	< 0.17 U	1.3	< 0.26 U	< 1.1 U	< 1.2 U	< 1.2 U	< 0.66 U	< 29.6 U	NA	33.7	NA	2.3
	4/16/20	1.7	< 1.1	< 0.55	1.7	< 0.56	< 0.49	< 2.7	< 1.2	< 2.4	1.1	< 0.54	157	< 0.35	332	< 0.52	< 0.93	< 1.2	< 1.2	< 0.66	44.4	NA	33.5	NA	3.2
MW-42	9/18/19	12.8	< 0.55 U	2.1	< 0.24 U	< 0.28 U	< 0.25 U	< 1.3 U	< 0.58 U	< 1.2 U	6.8	0.5 J	14,200	< 0.17 U	3	< 0.26 U	< 1.1 U	< 1.2 U	< 1.2 U	< 0.66 U	54 J	NA	146	NA	2.2
	11/20/19	< 24.5 U	< 55.2 U	< 27.3 U	< 24.5 U	< 28 U	< 24.6 U	< 134 U	< 58.1 U	< 118 U	< 32.6 U	< 17.2 U	4,770	< 17.5 U	35.1 J	< 26.2 U	< 109 U	< 1.2 U	< 1.2 U	< 0.66 U	9,760	1,070	48.1	585	124
	12/19/19	< 12.2 U	< 27.6 U	< 13.6 U	< 12.2 U	< 14 U	< 12.3 U	< 67.1 U	< 29 U	< 58.8 U	< 16.3 U	< 8.6 U	3,890	< 8.7 U	1,240	< 13.1 U	< 54.5 U	< 1.2 U	< 1.2 U	< 0.66 U	14,500	NA	13.2	NA	179
	1/22/20	3.9 J	< 2.8 U	14.1	3.5 J	< 1.4 U	< 1.2 U	< 6.7 U	< 2.9 U	< 5.9 U	< 1.6 U	< 0.86 U	342	2.7 J	609	< 1.3 U	< 5.5 U	< 1.2 U	< 1.2 U	114	51,800	NA	< 2.2 U	NA	229
	4/16/20	1.8 J	< 2.8	6	2.4 J	< 1.4	< 1.2	< 6.7	< 2.9	< 5.9	< 1.6	< 1.3	567	1.7 J	441	< 1.3	< 2.3	< 1.2	< 1.2	196	35,600	NA	5.3 J	NA	113
OP-14	9/18/19	2.8	< 1.4 U	< 0.68 U	< 0.61 U	< 0.7 U	< 0.62 U	< 3.4 U	< 1.5 U	< 2.9 U	10.7	< 0.43 U	341	< 0.44 U	8.5	< 0.65 U	< 2.7 U	< 1.2 U	< 1.2 U	< 0.66 U	< 35.4 U	NA	54.8	NA	2.4
	11/20/19	3.6 J	< 2.2 U	< 1.1 U	< 0.98 U	< 1.1 U	< 0.99 U	< 5.4 U	< 2.3 U	< 4.7 U	11.5	< 0.69 U	914	< 0.7 U	13.1	< 1 U	< 4.4 U	< 1.2 U	< 1.2 U	< 0.66 U	601				

TABLE 3
SUMMARY OF FIELD PARAMETERS
PRE- AND POST-INJECTION
Former Trent Tube Plant No. 1
East Troy, Wisconsin

Well ID	Location	Date	Depth to Water (ft btoc)	Depth to Bottom (ft btoc)	DO (mg/L)	ORP (mV)	Conductivity (µS/cm)	Temperature (°C)	pH (s.u.)
MW-1R	Sidegradient	9/17/19	13.14	25.06	0	67	852	16.97	7.05
		11/20/19	13.03	25.06	0	63	1117	8.7	7.37
		12/19/19	13.08	25.06	1.3	68.7	1198	12.37	6.88
		1/22/20	13.08	25.06	1.49	-77.5	1152	10.95	7.30
		4/16/20	13.14	25.06	0	87	1250	8.3	7.23
MW-2	Source Area	9/17/19	10.88	18.90	1.23	89	893	17.44	6.66
		11/20/19	9.86	18.96	0.42	120	1330	7.85	6.17
		12/19/19	9.91	18.90	0.45	49.3	1370	10.17	6.47
		1/22/20	9.82	18.96	0.8	-81.7	1474	8.65	6.76
		4/16/20	9.76	18.90	0	-109	1090	7.25	6.75
MW-4	Side/ Downgradient	9/17/19	12.45	22.35	2.49	111	558	20.68	6.25
		11/20/19	12.39	22.4	0	-137	568	8.73	7.39
		12/19/19	12.72	22.4	2.01	136.3	529	10.31	7.02
		1/22/20	12.99	22.4	5.6	-62.3	618	8.87	7.24
		4/16/20	12.61	22.4	0	173	597	7.94	7
MW-18R	Upgradient	9/17/19	10.09	22.26	8.09	44	653	17.93	7.05
		11/21/19	10.20	22.4	0	35	575	10.81	7.63
		12/19/19	10.37	22.4	0.43	24.6	619	11.05	6.91
		1/22/20	10.34	22.48	0.49	-76.7	695	9.44	7.31
		4/16/20	10.33	22.46	0	81	680	6.32	7.27
MW-38	Upgradient	9/17/19	10.03	19.34	2.59	47	600	17.78	7.37
		11/20/19	10.28	19.3	2.30	-64	526	10.24	7.14
		12/19/19	10.41	19.3	3.71	26.9	670	11.49	7.11
		1/22/20	10.45	19.3	4.6	-58.8	725	9.84	7.49
		4/16/20	10.48	19.3	0	167	870	7.6	7.33
MW-41	Side/ Downgradient	9/17/19	12.94	22.56	5.35	42	499	16.94	7.39
		11/20/19	12.16	22.1	3.02	-15	753	9.48	7.49
		12/19/19	12.32	22.1	2.41	120.9	562	9.97	7.12
		1/22/20	12.31	22.1	5.56	-63.2	628	8.36	7.28
		4/16/20	12.18	22.1	0	149	376	10.4	7.2
MW-42	Source Area	9/17/19	11.88	22.21	0.2	-1.0	841	18.26	7.1
		11/21/19	11.70	22.3	1.16	-181	1120	11.16	6.82
		12/19/19	11.79	22.3	0.34	-153.9	939	10.94	6.63
		1/22/20	11.74	22.3	1.07	-103.6	1250	9.36	6.86
		4/16/20	11.49	22.3	0	-135	815	10.28	6.81
OP-14	Down/ Sidegradient	9/17/19	12.60	21.95	2.77	78	576	21.53	6.93
		11/20/19	10.81	21.95	3.92	105	321	8.41	7.23
		12/19/19	11.27	21.95	3.4	249	810	9.73	6.87
		1/22/20	11.07	21.95	4.01	-67.5	734	7.96	7.08
		4/16/20	10.79	21.95	0	90	879	6.50	6.88

Notes:

1. ft btoc = feet below top of casing.
2. DO = dissolved oxygen; and mg/L = milligrams per liter.
3. ORP = oxidation reduction potential; and mV = millivolts.
4. µS/cm = microsiemens.
5. °C = degrees Celsius.
6. s.u. = standard units.

TABLE 4
SUMMARY OF GROUNDWATER ELEVATIONS DURING INJECTION PILOT TEST
Former Trent Tube Plant No. 1
East Troy, Wisconsin

Date		Well									
		MW-1R Elevation		MW-2 Elevation		MW-41 Elevation		MW-42 Elevation		OP-14 Elevation	
TOC		839.95		836.8		839.48		839.7		837.86	
10/8/2019	Beginning	12.62	827.33	10.42	826.38	11.71	827.77	10.98	828.72	10.14	827.72
	Middle	12.54	827.41	10.42	826.38	11.73	827.75	10.78	828.92	10.15	827.71
	End	12.49	827.46	10.42	826.38	11.71	827.77	10.66	829.04	10.15	827.71
10/9/2019	Beginning	12.59	827.36	10.42	826.38	11.74	827.74	10.9	828.8	10.23	827.63
	Middle	12.4	827.55	10.41	826.39	11.74	827.74	10.69	829.01	10.15	827.71
	End	12.4	827.55	10.35	826.45	11.74	827.74	10.64	829.06	10.15	827.71
10/10/2019	Beginning	12.54	827.41	10.34	826.46	11.74	827.74	10.85	828.85	10.15	827.71
	Middle	12.43	827.52	10.28	826.52	11.73	827.75	10.73	828.97	10.08	827.78
	End	12.42	827.53	10.26	826.54	11.74	827.74	10.7	829	10.08	827.78
10/11/2019	Beginning	12.54	827.41	10.41	826.39	11.74	827.74	10.9	828.8	10.15	827.71
	Middle	12.5	827.45	10.33	826.47	11.72	827.76	10.76	828.94	10.14	827.72
	End	12.5	827.45	10.32	826.48	11.73	827.75	10.72	828.98	10.14	827.72
10/14/2019	Beginning	12.58	827.37	10.51	826.29	11.84	827.64	10.9	828.8	10.2	827.66
	Middle	12.58	827.37	10.51	826.29	11.85	827.63	10.41	829.29	10.22	827.64
	End	12.57	827.38	10.51	826.29	11.88	827.6	10.34	829.36	10.29	827.57

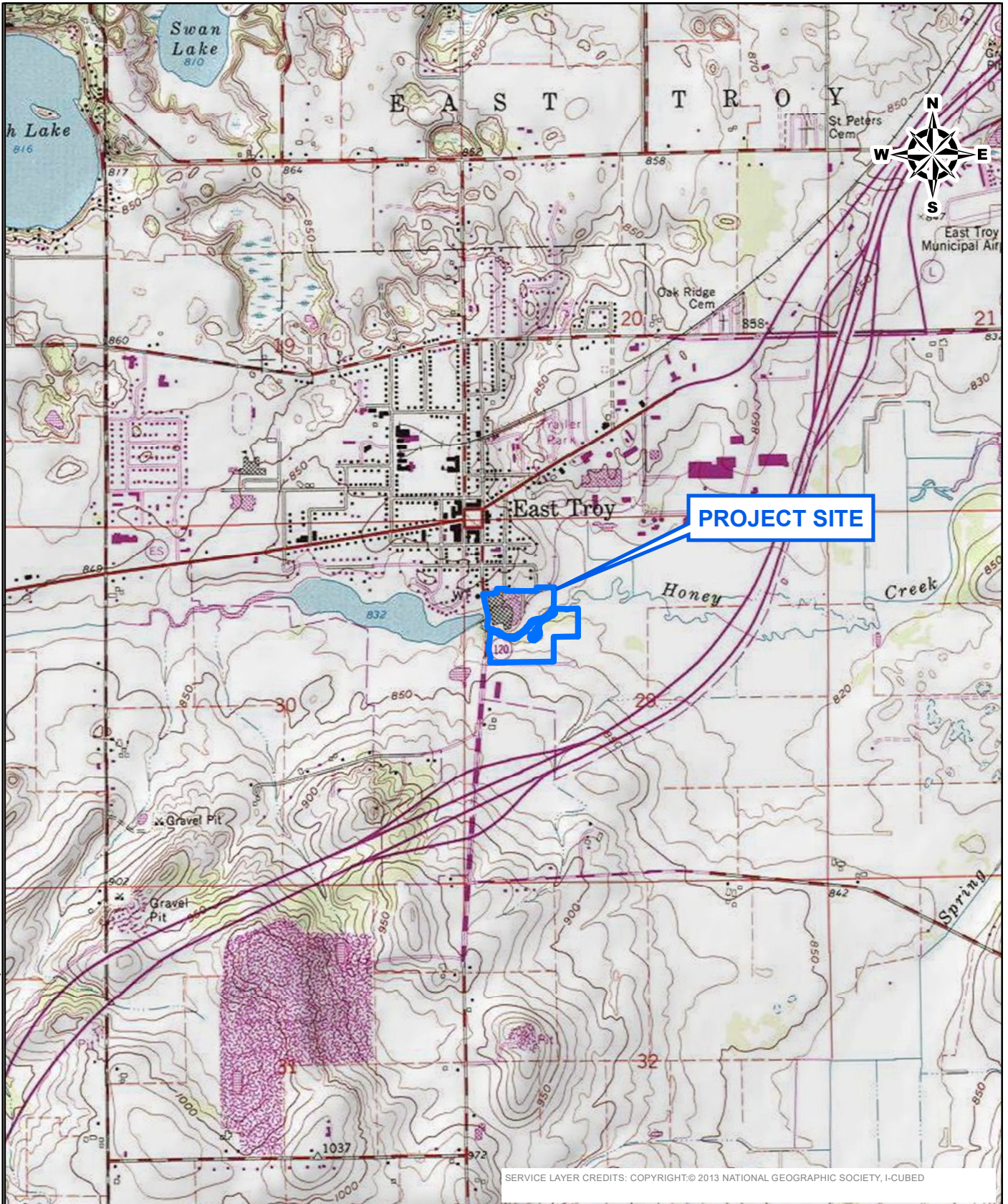
**TABLE 5
SUMMARY OF MOLAR CONCENTRATIONS
Former Trent Tube Plant No. 1
East Troy, Wisconsin**

Parameter	Units	Enforcement Standard	MW-2- Downgradient					MW-42- Source Area					OP-14- Sidegradient					MW-1- Sidegradient					
			18-Sep-19	20-Nov-19	19-Dec-19	22-Jan-20	16-Apr-20	18-Sep-19	20-Nov-19	19-Dec-19	22-Jan-20	16-Apr-20	18-Sep-19	20-Nov-19	19-Dec-19	22-Jan-20	16-Apr-20	18-Sep-19	20-Nov-19	19-Dec-19	22-Jan-20	16-Apr-20	
VOCs			Baseline	1 month	2 months	3 month	6 months	Baseline	1 month	2 months	3 month	6 months	Baseline	1 month	2 months	3 month	6 months	Baseline	1 month	2 months	3 month	6 months	
1,1-Dichloroethene	μmole/L		0.063	0.063	0.050	0.012	0.025	0.002	0.253	0.126	0.036	0.025	0.006	0.010	0.025	0.010	0.01	0.002	0.002	0.002	0.002	0.002	0.002
cis-1,2-Dichloroethene	μmole/L		0.07	12.69	19.08	6.90	1.17	0.03	0.36	12.79	6.28	4.55	0.09	0.14	0.15	2.63	2.28	0.003	0.003	0.003	0.003	0.003	0.004
trans-1,2-Dichloroethene	μmole/L		0.28	0.28	0.22	0.06	0.05	0.01	1.12	0.56	0.06	0.02	0.03	0.05	0.11	0.05	0.02	0.011	0.011	0.011	0.011	0.011	0.005
Trichloroethene	μmole/L		21.08	1.83	0.18	0.10	0.07	108.07	36.30	29.60	2.60	4.32	2.60	6.96	5.69	2.47	1.85	0.003	0.002	0.002	0.002	0.002	0.007
Vinyl Chloride	μmole/L		0.070	0.070	0.779	0.435	0.219	0.003	0.280	0.139	0.043	0.027	0.007	0.011	0.027	0.011	0.011	0.003	0.003	0.003	0.003	0.003	0.003
total DCE	μmole/L		0.35	12.97	19.31	6.96	1.21	0.04	1.49	13.35	6.34	4.57	0.12	0.18	0.26	2.68	2.30	0.014	0.014	0.014	0.014	0.014	0.008
Total Molar Concentration	μmole/L		21.566	14.930	20.318	7.506	1.527	108.114	38.321	43.223	9.021	8.940	2.724	7.158	6.009	5.171	4.170	0.022	0.021	0.021	0.021	0.021	0.020
% TCE Change				-91.3%	-99.1%	-99.5%	-99.7%		-66.4%	-72.6%	-97.6%	-96.0%		168%	119%	-5%	-29%		-100%	-100%	-100%	-100%	-100%
% cis-1,2 DCE Change				17988%	27106%	9738%	1562%		1070%	41233%	20200%	14600%		54%	73%	2900%	2500%		-97%	-97%	-97%	-97%	-96%
% Vinyl Chloride Change				0%	1007%	518%	211%		10194%	5018%	1488%	900%		59%	286%	59%	59%		-61%	-61%	-61%	-61%	-61%
% Total CVOC Molar Conc. Change				-31%	-6%	-65%	-93%		-65%	-60%	-92%	-92%		163%	121%	90%	53%		-4%	-4%	-4%	-4%	-9%
Indicator Parameters																							
Iron	μg/l	14	35.4	29.6	286	996	4,020	54	9760	14500	51,800	35,600	35.4	601	529	159	159	35.4	29.6	29.6	30	159	159
Ethane	μg/l	---	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Ethene	μg/l	---	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
Methane	μg/l	---	0.66	0.66	0.66	1.2	489	0.66	0.66	0.66	114	196	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66	0.66
Dissolved Oxygen	mg/l	---	1.2	0.4	0.5	0.8	0.0	0.2	1.2	0.3	1.1	0.0	2.8	3.9	3.4	4.0	0.00	0.0	0.0	1.3	1.5	0.00	0.00
ORP	mV	---	89	120	49	-82	-109	-1	-181	-154	-104	-135	78	105	249	-68	90	67	63	69	-78	87	87
pH	s.u.	---	6.7	6.2	6	6.8	6.8	7.1	6.8	7	6.9	6.8	6.9	7.2	7	7.1	6.88	7.1	7.4	7	7.3	7.23	7.23
Sulfate	mg/l	---	193	85	28	14	17	146	48	13	2	5	55	89	87	71	75.2	153	233	285	177	323	323
Total Organic Carbon	mg/L	---	2.5	171	321	275	100	2	124	179	229	113	2	4	16	7	4.8	1	6	4	3	6.3	6.3



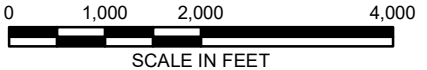
FIGURES

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SCALE IN FEET

FORMER TRENT TUBE SITE
 2188 CHURCH STREET
 EAST TROY, WISCONSIN

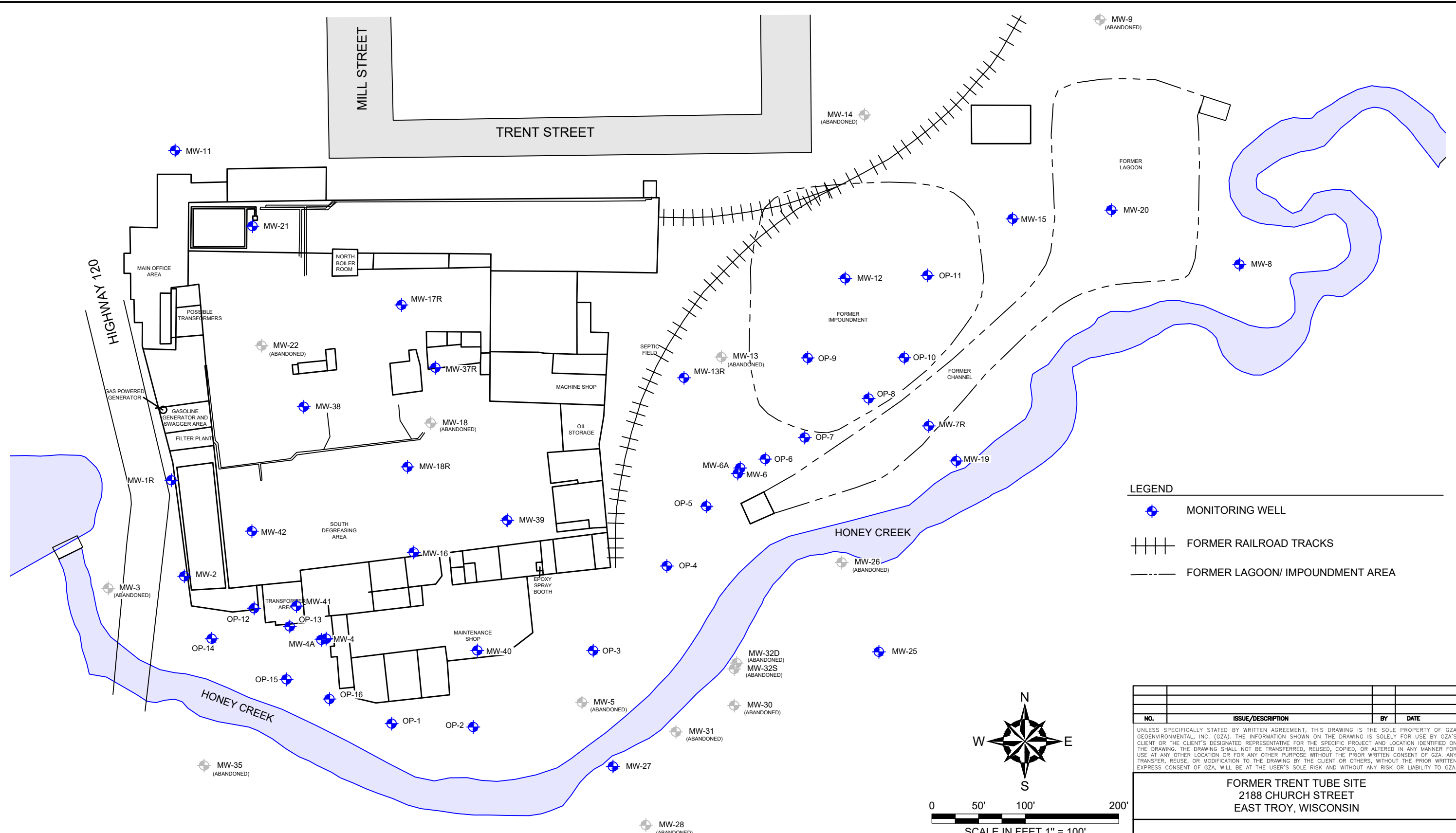
PREPARED BY:
GZA GeoEnvironmental, Inc.
 Engineers and Scientists
 www.gza.com

PREPARED FOR:
 ENPRO HOLDINGS, INC.

SITE LOCATION MAP

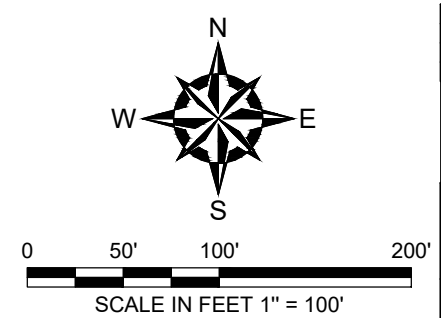
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DESIGNED BY:	ANM	DRAWN BY:	ANM	SCALE:	1 in = 2,000 ft
DATE:	03/23/2020	PROJECT NO:	20.0155935.00	REVISION NO:	

FIG	1
SHEET NO:	



LEGEND

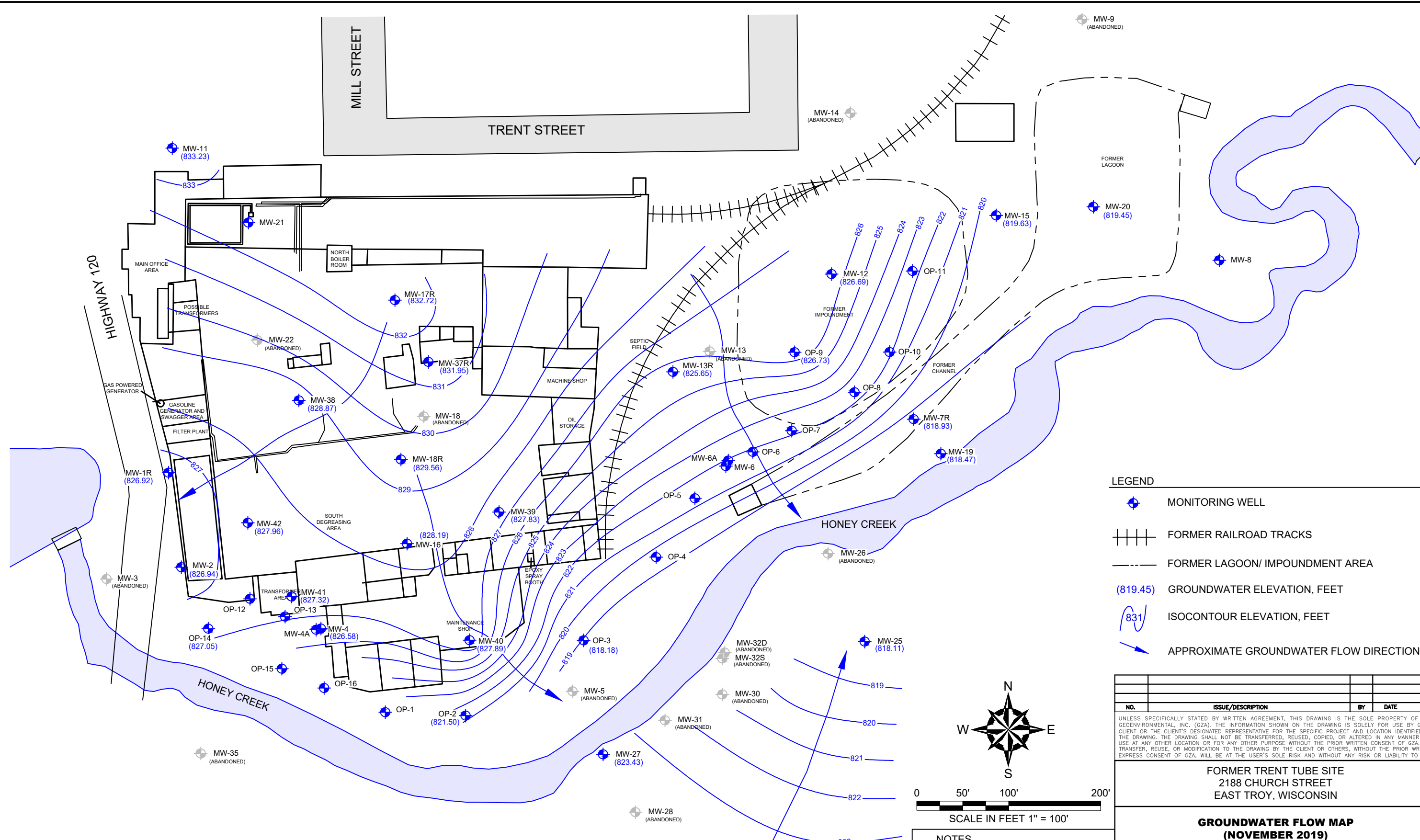
- MONITORING WELL
- FORMER RAILROAD TRACKS
- FORMER LAGOON/ IMPOUNDMENT AREA



NOTES

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<p>FORMER TRENT TUBE SITE 2188 CHURCH STREET EAST TROY, WISCONSIN</p>			
<p>SITE PLAN</p>			
<p>PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com</p>		<p>PREPARED FOR: EN-PRO HOLDINGS, INC.</p>	
PROJ MGR: KMH	REVIEWED BY: AHA	CHECKED BY: KMH	FIG 2
DESIGNED BY: KMH	DRAWN BY: KMH	SCALE: see above	
DATE: MARCH 2020	PROJECT NO: 20.0155935.00	REVISION NO.	SHEET NO. OF



LEGEND

- MONITORING WELL
- FORMER RAILROAD TRACKS
- FORMER LAGOON/ IMPOUNDMENT AREA
- (819.45) GROUNDWATER ELEVATION, FEET
- 831 ISOCONTOUR ELEVATION, FEET
- APPROXIMATE GROUNDWATER FLOW DIRECTION

N
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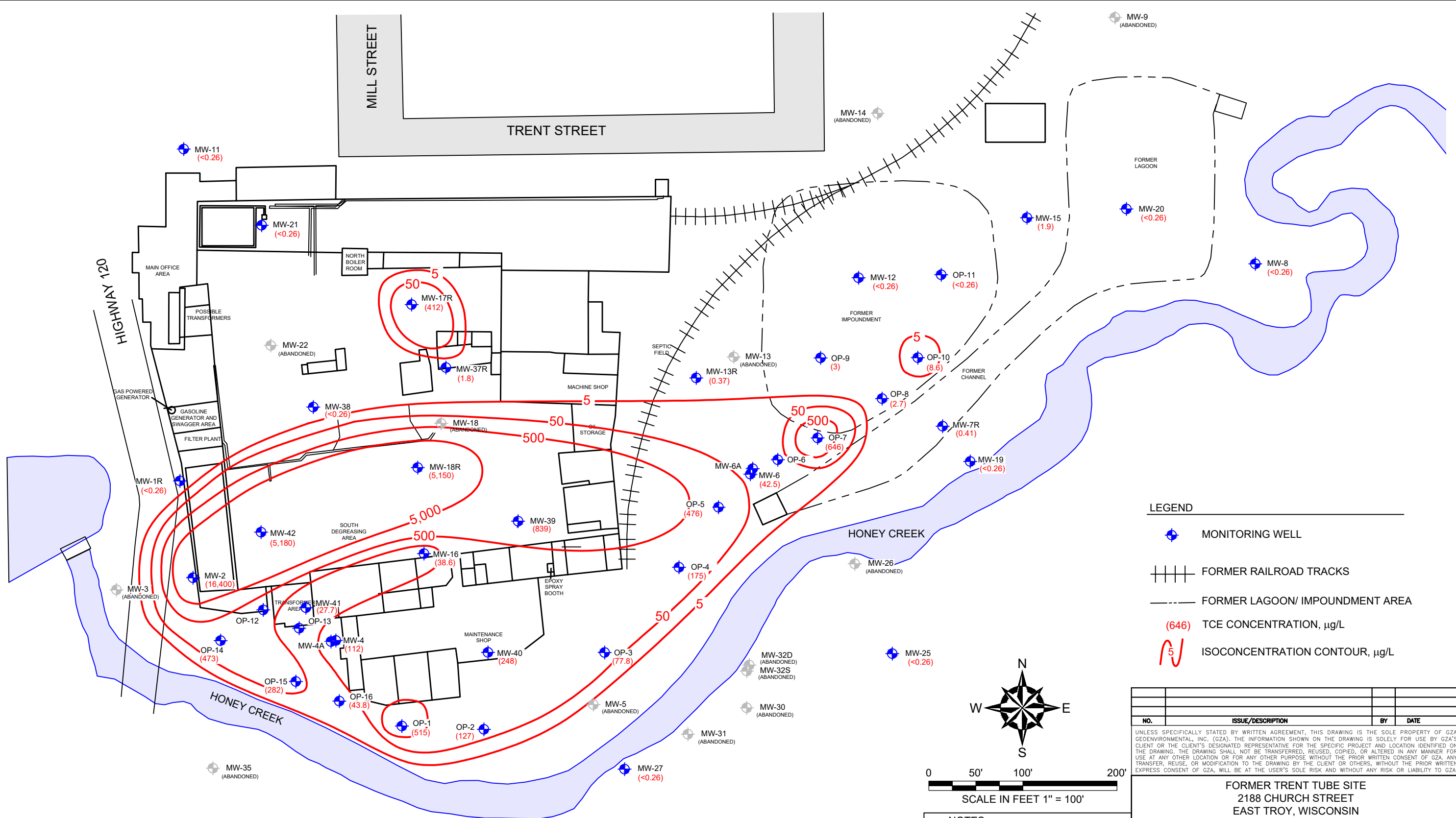
0 50' 100' 200'
 SCALE IN FEET 1" = 100'

NOTES

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FORMER TRENT TUBE SITE 2188 CHURCH STREET EAST TROY, WISCONSIN			
GROUNDWATER FLOW MAP (NOVEMBER 2019)			
PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: EN-PRO HOLDINGS, INC.	
PROJ MGR: KMH DESIGNED BY: KMH DATE: MARCH 2020	REVIEWED BY: AHA DRAWN BY: KMH PROJECT NO. 20.0155935.00	CHECKED BY: KMH SCALE: see above REVISION NO.	FIG 3 SHEET NO. OF

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LEGEND

- MONITORING WELL
- FORMER RAILROAD TRACKS
- FORMER LAGOON/ IMPOUNDMENT AREA
- (646) TCE CONCENTRATION, µg/L
- 5 ISOCONCENTRATION CONTOUR, µg/L

N
W —+— E
S

0 50' 100' 200'

SCALE IN FEET 1" = 100'

- NOTES**
- THE GROUNDWATER ENFORCEMENT STANDARD (ES) FOR TRICHLOROETHENE (TCE) IS 5 MICROGRAMS PER LITER (µg/L).
 - THE PURPOSE OF THIS DRAWING IS TO LOCATE, DESCRIBE, AND REPRESENT THE POSITIONS OF BORINGS, MONITORING WELLS, AND OTHER EXPLORATIONS IN RELATION TO THE SUBJECT SITE. THIS DRAWING IS NOT CONSIDERED A LAND SURVEY. THE LOCATIONS SHOWN SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED.

NO.	ISSUE/DESCRIPTION	BY	DATE

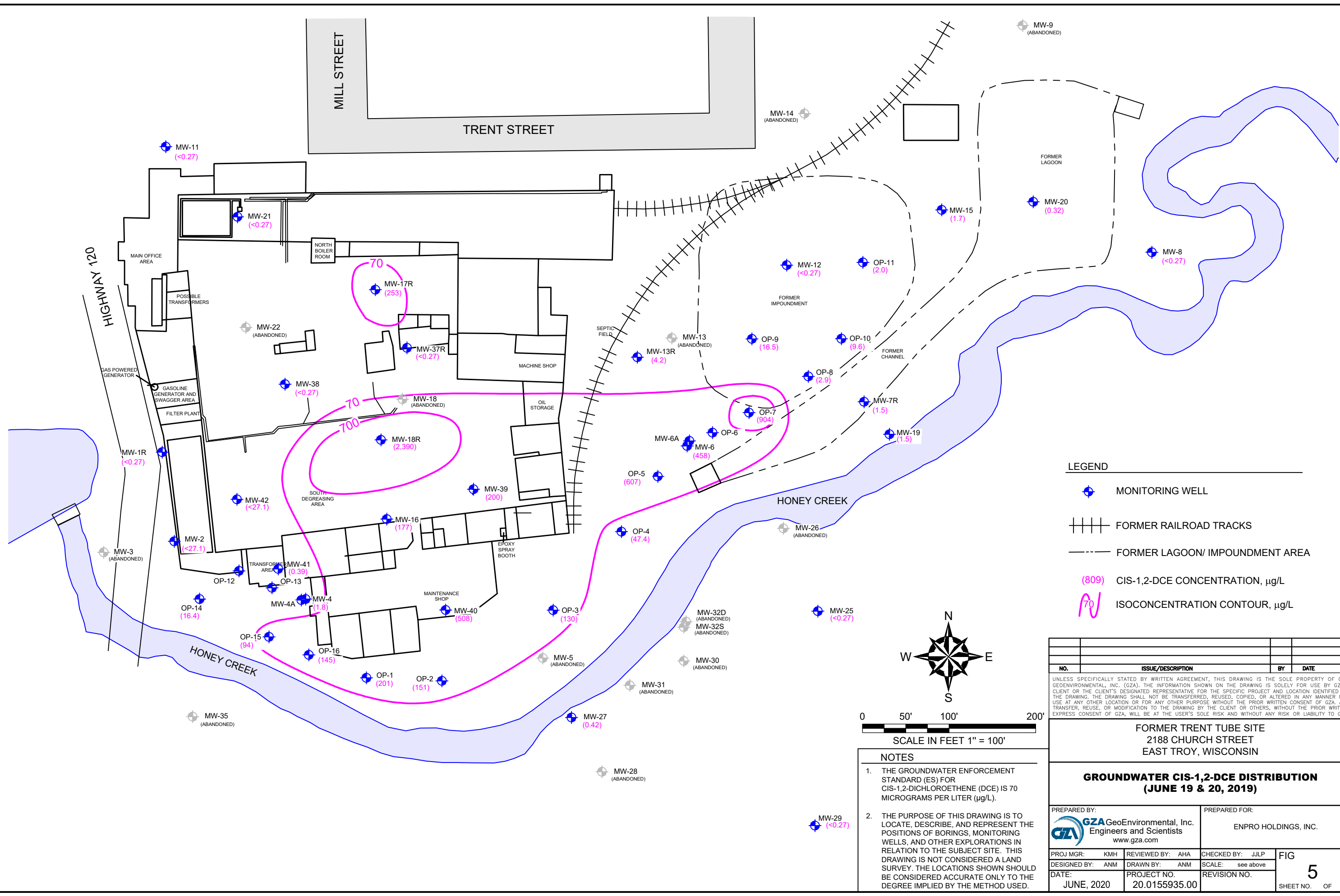
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FORMER TRENT TUBE SITE
2188 CHURCH STREET
EAST TROY, WISCONSIN

GROUNDWATER TCE DISTRIBUTION
(JUNE 19 & 20, 2019)

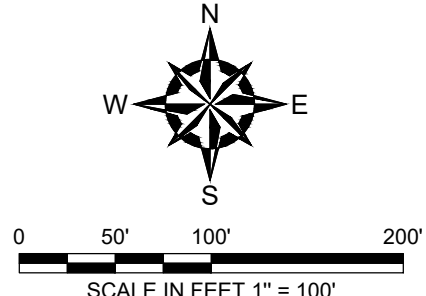
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PROJ MGR: KMH	REVIEWED BY: AHA	CHECKED BY: KMH	FIG
DESIGNED BY: KMH	DRAWN BY: KMH	SCALE: see above	4
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LEGEND

- MONITORING WELL
- FORMER RAILROAD TRACKS
- FORMER LAGOON/ IMPOUNDMENT AREA
- (809) CIS-1,2-DCE CONCENTRATION, µg/L
- 70 ISOCONCENTRATION CONTOUR, µg/L



- NOTES**
- THE GROUNDWATER ENFORCEMENT STANDARD (ES) FOR CIS-1,2-DICHLOROETHENE (DCE) IS 70 MICROGRAMS PER LITER (µg/L).
 - THE PURPOSE OF THIS DRAWING IS TO LOCATE, DESCRIBE, AND REPRESENT THE POSITIONS OF BORINGS, MONITORING WELLS, AND OTHER EXPLORATIONS IN RELATION TO THE SUBJECT SITE. THIS DRAWING IS NOT CONSIDERED A LAND SURVEY. THE LOCATIONS SHOWN SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED.

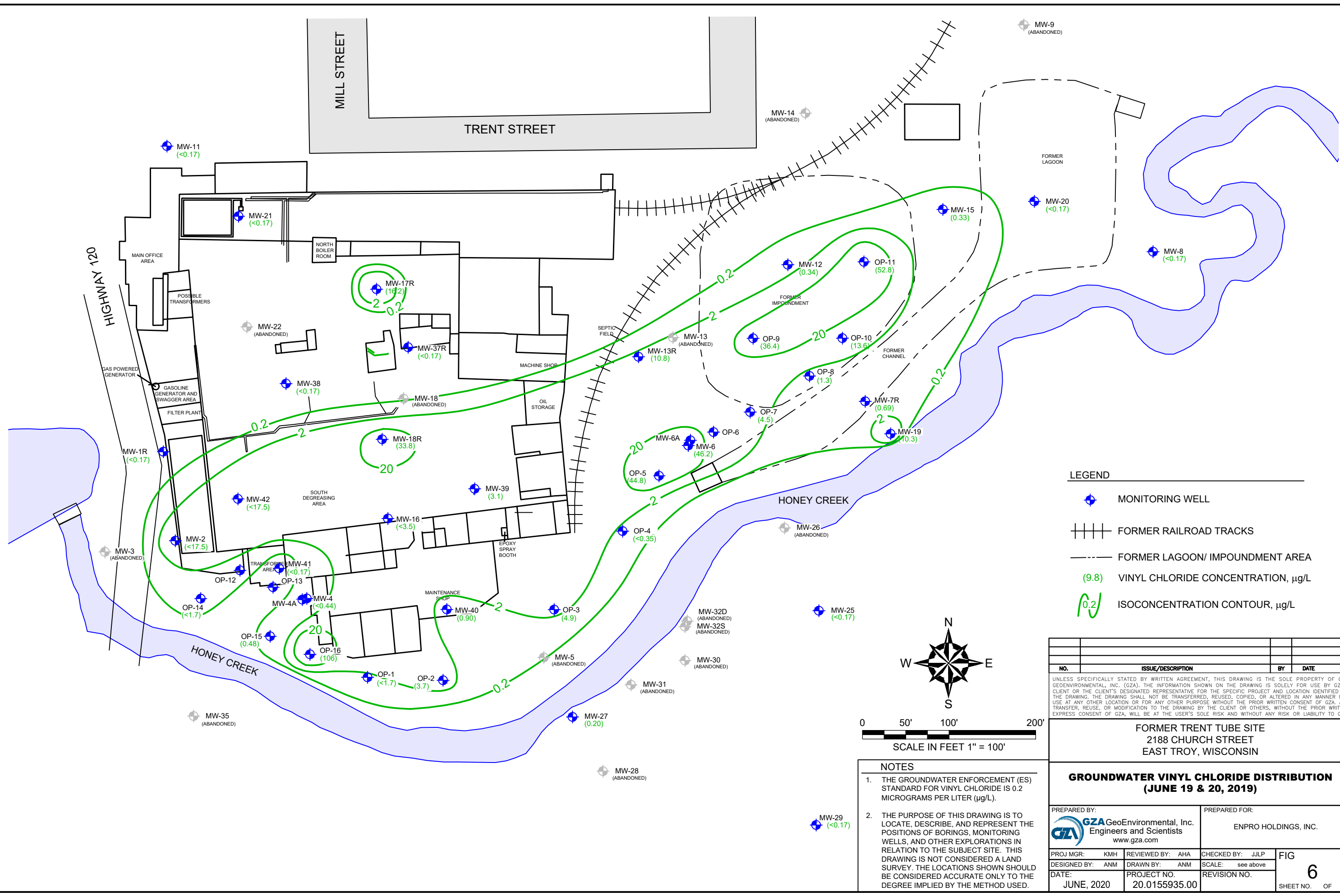
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FORMER TRENT TUBE SITE
 2188 CHURCH STREET
 EAST TROY, WISCONSIN

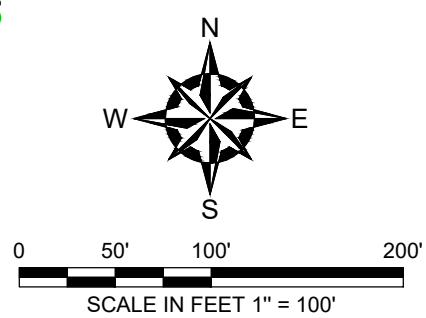
GROUNDWATER CIS-1,2-DCE DISTRIBUTION
(JUNE 19 & 20, 2019)

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PROJ MGR: KMH	REVIEWED BY: AHA	CHECKED BY: JILP	FIG
DESIGNED BY: ANM	DRAWN BY: ANM	SCALE: see above	5
DATE: JUNE, 2020	PROJECT NO: 20.0155935.00	REVISION NO.	



LEGEND

- MONITORING WELL
- FORMER RAILROAD TRACKS
- FORMER LAGOON/ IMPOUNDMENT AREA
- VINYL CHLORIDE CONCENTRATION, µg/L
- ISOCONCENTRATION CONTOUR, µg/L



NOTES

1. THE GROUNDWATER ENFORCEMENT (ES) STANDARD FOR VINYL CHLORIDE IS 0.2 MICROGRAMS PER LITER (µg/L).
2. THE PURPOSE OF THIS DRAWING IS TO LOCATE, DESCRIBE, AND REPRESENT THE POSITIONS OF BORINGS, MONITORING WELLS, AND OTHER EXPLORATIONS IN RELATION TO THE SUBJECT SITE. THIS DRAWING IS NOT CONSIDERED A LAND SURVEY. THE LOCATIONS SHOWN SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED.

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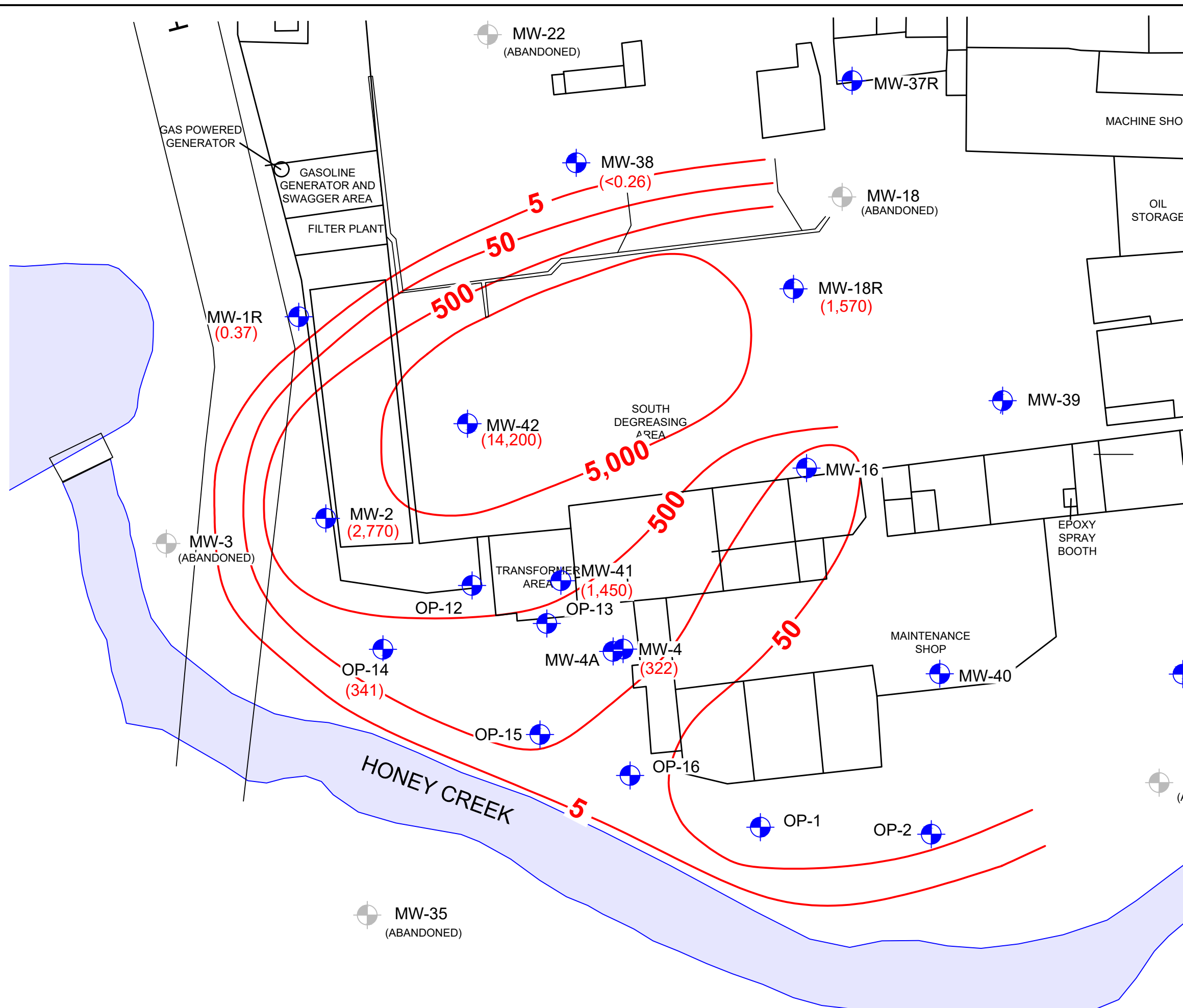
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FORMER TRENT TUBE SITE
 2188 CHURCH STREET
 EAST TROY, WISCONSIN

GROUNDWATER VINYL CHLORIDE DISTRIBUTION
(JUNE 19 & 20, 2019)

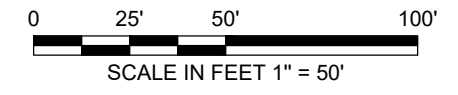
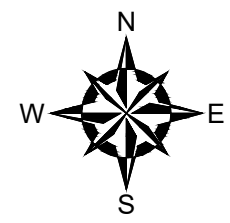
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PROJ MGR: KMH	REVIEWED BY: AHA	CHECKED BY: JLP	FIG
DESIGNED BY: ANM	DRAWN BY: ANM	SCALE: see above	6
DATE: JUNE, 2020	PROJECT NO. 20.0155935.00	REVISION NO.	

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LEGEND

- MONITORING WELL (GRAY IF PREVIOUSLY ABANDONED)
- FORMER RAILROAD TRACKS
- FORMER LAGOON/ IMPOUNDMENT AREA
- (1,570) TCE CONCENTRATION, µg/L
- ISOCONCENTRATION CONTOUR, µg/L



- NOTES**
1. THE PURPOSE OF THIS DRAWING IS TO LOCATE, DESCRIBE, AND REPRESENT THE POSITIONS OF BORINGS, MONITORING WELLS, AND OTHER EXPLORATIONS IN RELATION TO THE SUBJECT SITE. THIS DRAWING IS NOT CONSIDERED A LAND SURVEY. THE LOCATIONS SHOWN SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED.
 2. THE GROUNDWATER ENFORCEMENT STANDARD (ES) FOR TRICHLOROETHENE (TCE) IS 5 MICROGRAMS PER LITER (µg/L).

NO.	ISSUE/DESCRIPTION	BY	DATE

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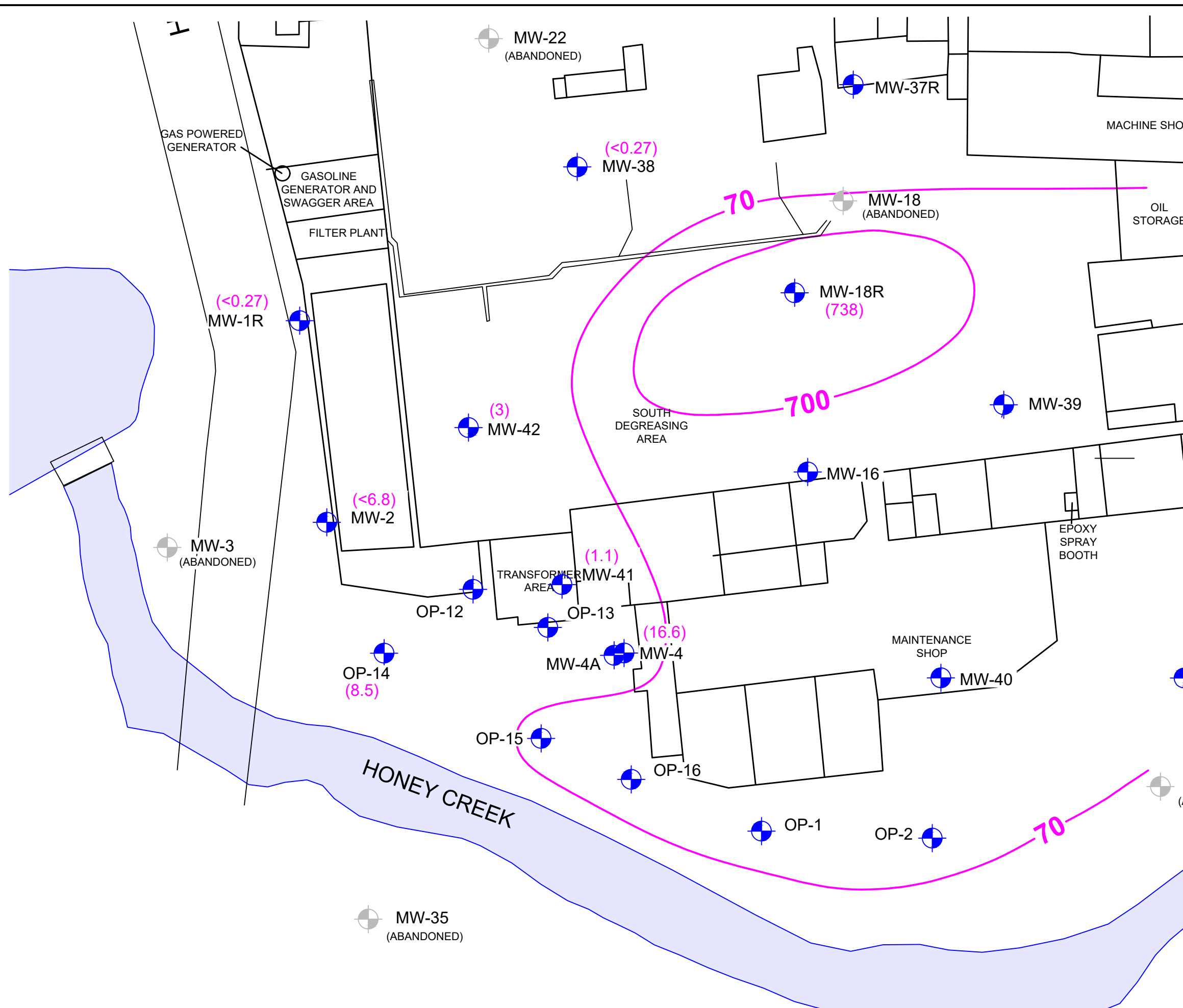
FORMER TRENT TUBE SITE
 2188 CHURCH STREET
 EAST TROY, WISCONSIN

BASELINE GROUNDWATER TCE DISTIBUTION
(SEPTEMBER 18, 2019)

PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR: ENPRO HOLDINGS, INC.
--	---------------------------------------

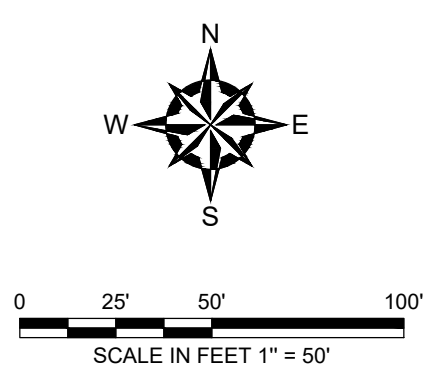
PROJ MGR: KMH	REVIEWED BY: AHA	CHECKED BY: KMH	FIG
DESIGNED BY: KMH	DRAWN BY: KMH	SCALE: see above	7
DATE: JUNE, 2020	PROJECT NO. 20.0155935.00	REVISION NO.	

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LEGEND

- MONITORING WELL (GRAY IF PREVIOUSLY ABANDONED)
- FORMER RAILROAD TRACKS
- FORMER LAGOON/ IMPOUNDMENT AREA
- CIS-1,2-DCE CONCENTRATION, $\mu\text{g/L}$
- ISOCONCENTRATION CONTOUR, $\mu\text{g/L}$



- NOTES**
- THE PURPOSE OF THIS DRAWING IS TO LOCATE, DESCRIBE, AND REPRESENT THE POSITIONS OF BORINGS, MONITORING WELLS, AND OTHER EXPLORATIONS IN RELATION TO THE SUBJECT SITE. THIS DRAWING IS NOT CONSIDERED A LAND SURVEY. THE LOCATIONS SHOWN SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED.
 - THE GROUNDWATER ENFORCEMENT STANDARD (ES) FOR CIS-1,2-DICHLOROETHENE (DCE) IS 70 MICROGRAMS PER LITER ($\mu\text{g/L}$).

NO.	ISSUE/DESCRIPTION	BY	DATE

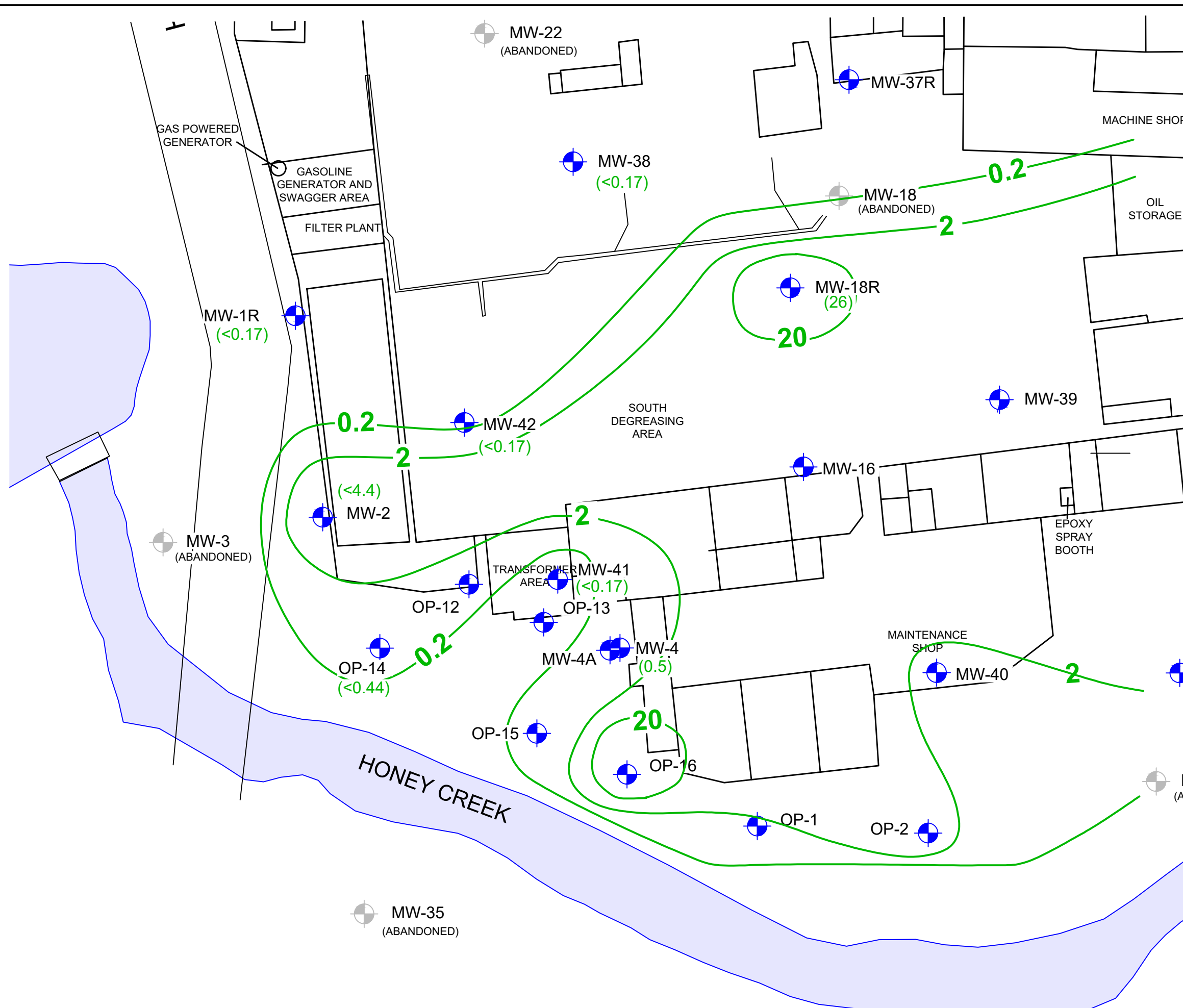
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FORMER TRENT TUBE SITE
2188 CHURCH STREET
EAST TROY, WISCONSIN

BASELINE GROUNDWATER CIS-1,2-DCE DISTRIBUTION
(SEPTEMBER 2019)

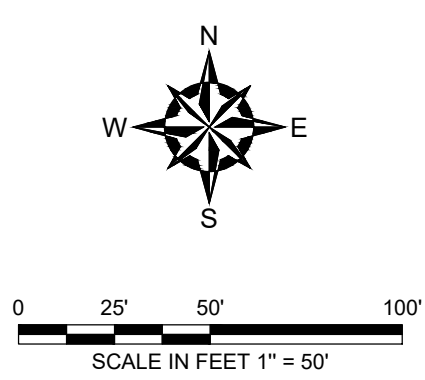
PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR: ENPRO HOLDINGS, INC.		
PROJ MGR: KMH	REVIEWED BY: AHA	CHECKED BY: JLP	FIG
DESIGNED BY: ANM	DRAWN BY: ANM	SCALE: see above	8
DATE: JUNE, 2020	PROJECT NO. 20.0155935.00	REVISION NO.	

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LEGEND

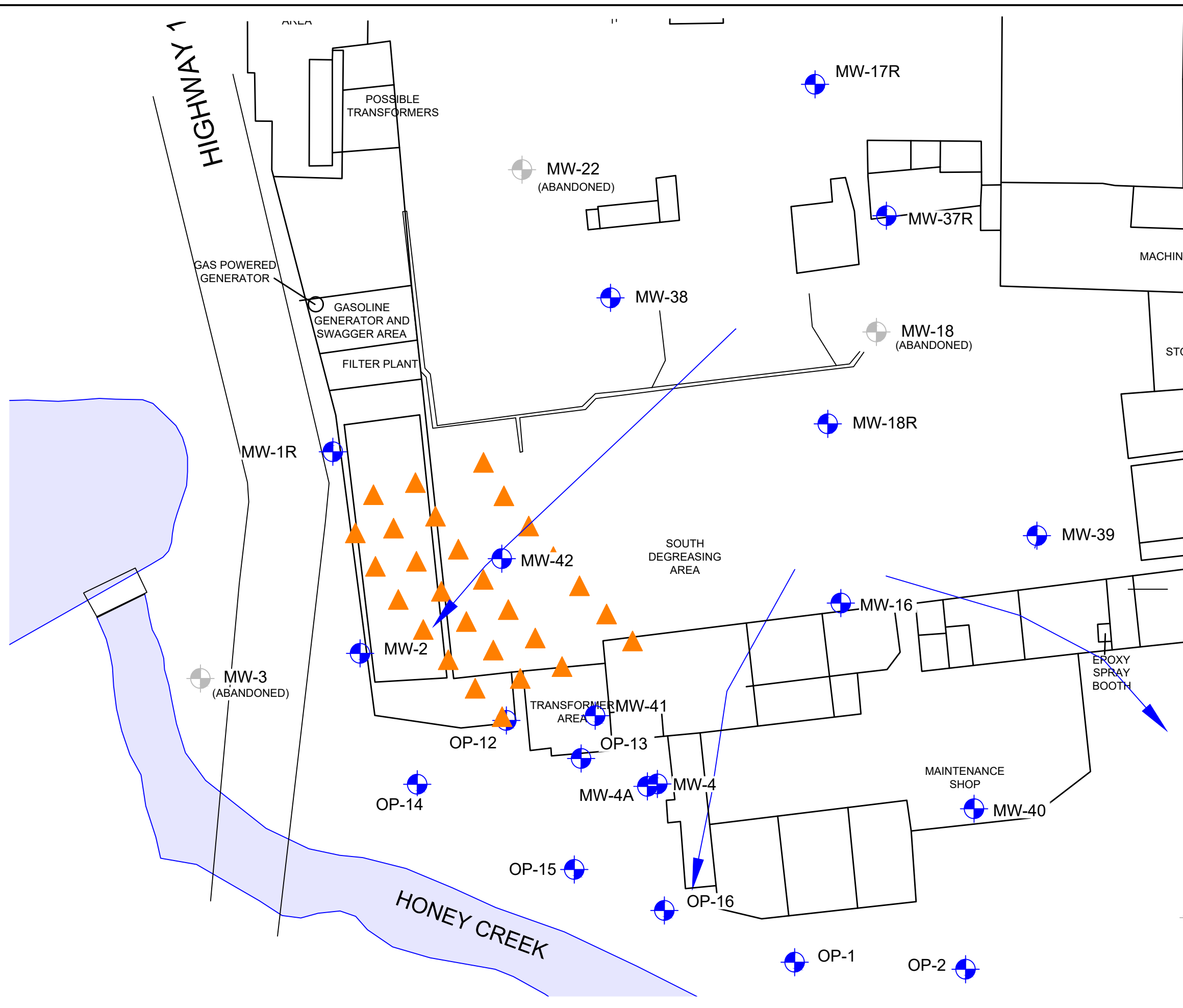
- MONITORING WELL (GRAY IF PREVIOUSLY ABANDONED)
- FORMER RAILROAD TRACKS
- FORMER LAGOON/ IMPOUNDMENT AREA
- (26) VINYL CHLORIDE CONCENTRATION, µg/L
- ISOCONCENTRATION CONTOUR, µg/L



- NOTES**
- THE PURPOSE OF THIS DRAWING IS TO LOCATE, DESCRIBE, AND REPRESENT THE POSITIONS OF BORINGS, MONITORING WELLS, AND OTHER EXPLORATIONS IN RELATION TO THE SUBJECT SITE. THIS DRAWING IS NOT CONSIDERED A LAND SURVEY. THE LOCATIONS SHOWN SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED.
 - THE GROUNDWATER ENFORCEMENT (ES) STANDARD FOR VINYL CHLORIDE IS 0.2 MICROGRAMS PER LITER (µg/L).

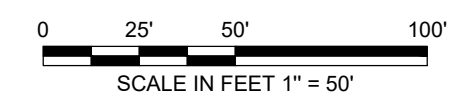
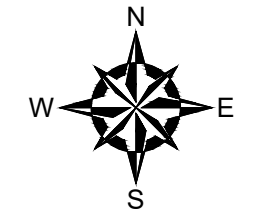
NO.	ISSUE/DESCRIPTION	BY	DATE
<small>UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.</small>			
FORMER TRENT TUBE SITE 2188 CHURCH STREET EAST TROY, WISCONSIN			
BASELINE GROUNDWATER VINYL CHLORIDE DISTRIBUTION (SEPTEMBER 2019)			
PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: ENPRO HOLDINGS, INC.	
PROJ MGR: KMH DESIGNED BY: ANM DATE: JUNE, 2020	REVIEWED BY: AHA DRAWN BY: ANM PROJECT NO. 20.0155935.00	CHECKED BY: JLP SCALE: see above REVISION NO.	FIG 9 SHEET NO. OF

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LEGEND

- MONITORING WELL (GRAY IF PREVIOUSLY ABANDONED)
- FORMER RAILROAD TRACKS
- FORMER LAGOON/ IMPOUNDMENT AREA
- INJECTION POINT
- APPROXIMATE GROUNDWATER FLOW DIRECTION



NOTES

- THE PURPOSE OF THIS DRAWING IS TO LOCATE, DESCRIBE, AND REPRESENT THE POSITIONS OF BORINGS, MONITORING WELLS, AND OTHER EXPLORATIONS IN RELATION TO THE SUBJECT SITE. THIS DRAWING IS NOT CONSIDERED A LAND SURVEY. THE LOCATIONS SHOWN SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED.

NO.	ISSUE/DESCRIPTION	BY	DATE

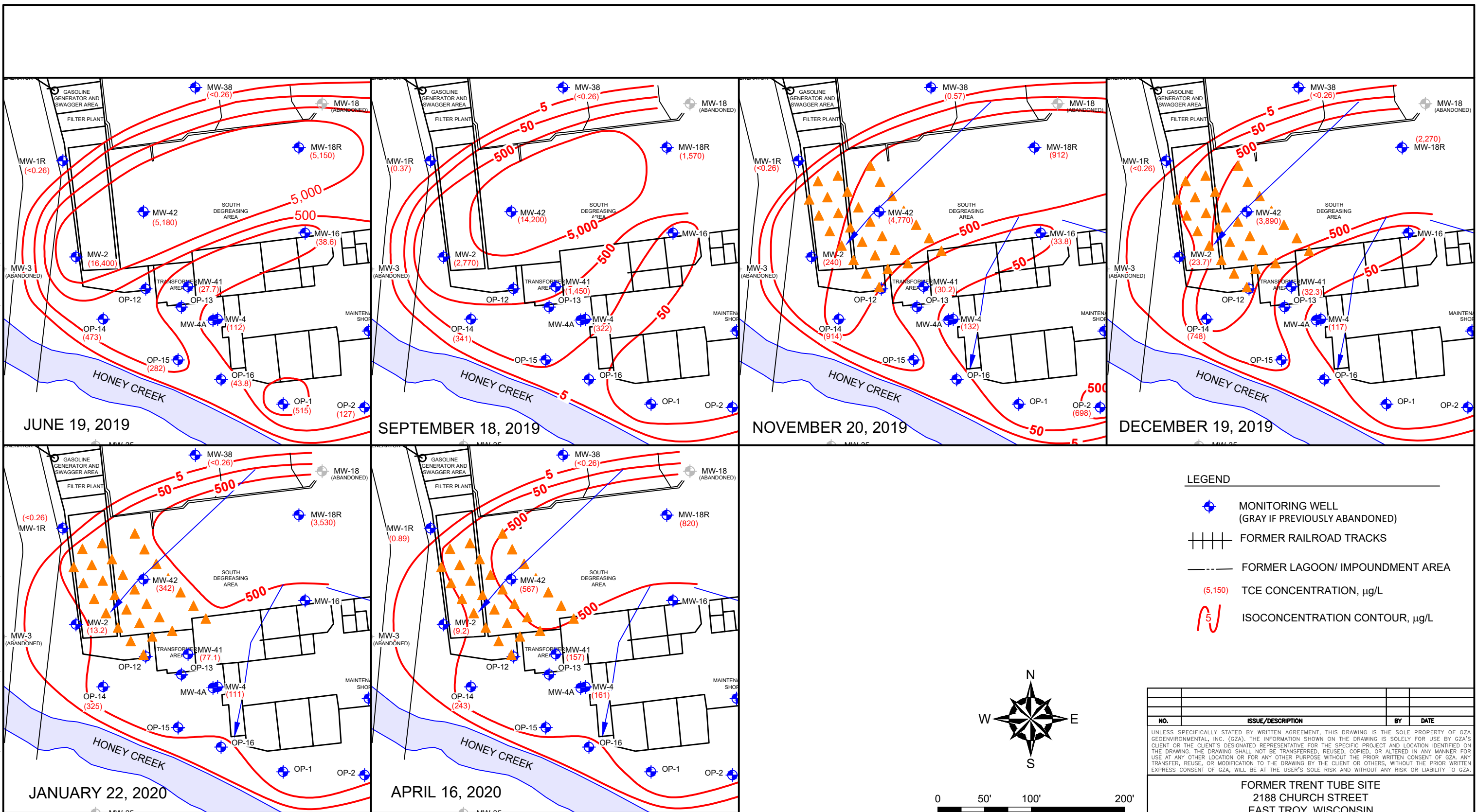
UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.

FORMER TRENT TUBE SITE
 2188 CHURCH STREET
 EAST TROY, WISCONSIN

PILOT TEST INJECTION POINTS

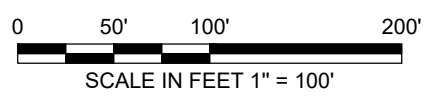
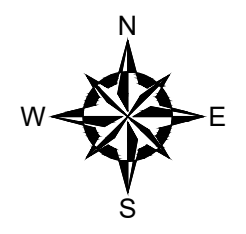
PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR: ENPRO HOLDINGS, INC.
--	---------------------------------------

PROJ MGR: KMH	REVIEWED BY: AHA	CHECKED BY: JLP	FIG
DESIGNED BY: ANM	DRAWN BY: ANM	SCALE: see above	10
DATE: JUNE, 2020	PROJECT NO. 20.0155935.00	REVISION NO.	



LEGEND

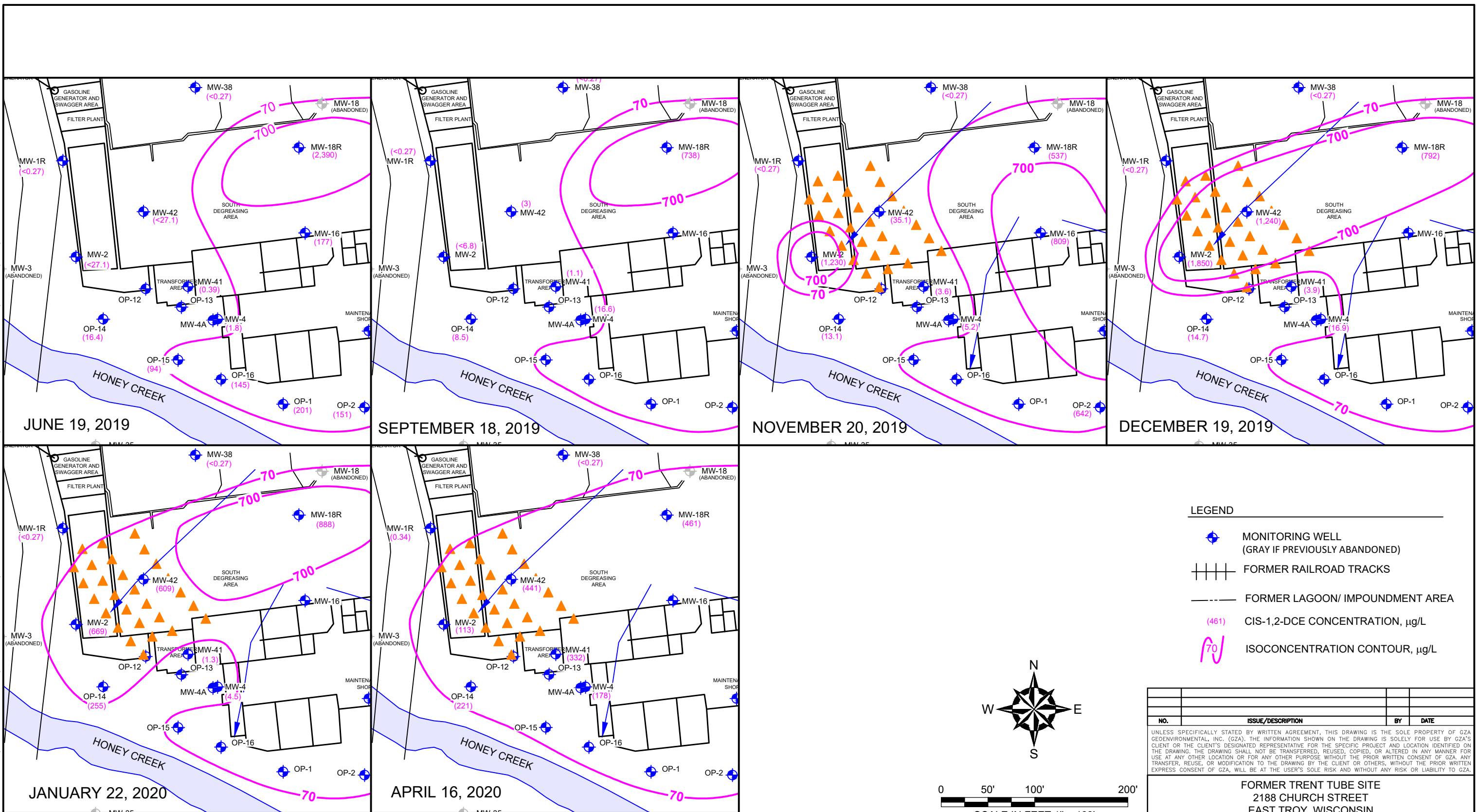
- MONITORING WELL (GRAY IF PREVIOUSLY ABANDONED)
- FORMER RAILROAD TRACKS
- FORMER LAGOON/IMPOUNDMENT AREA
- (5,150) TCE CONCENTRATION, µg/L
- ISOCENTRATION CONTOUR, µg/L



- NOTES**
- THE PURPOSE OF THIS DRAWING IS TO LOCATE, DESCRIBE, AND REPRESENT THE POSITIONS OF BORINGS, MONITORING WELLS, AND OTHER EXPLORATIONS IN RELATION TO THE SUBJECT SITE. THIS DRAWING IS NOT CONSIDERED A LAND SURVEY. THE LOCATIONS SHOWN SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED.
 - THE GROUNDWATER ENFORCEMENT STANDARD (ES) FOR TRICHLOROETHENE (TCE) IS 5 MICROGRAMS PER LITER (µg/L).

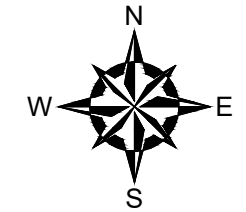
NO.	ISSUE/DESCRIPTION	BY	DATE
<p>UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.</p>			
<p>FORMER TRENT TUBE SITE 2188 CHURCH STREET EAST TROY, WISCONSIN</p>			
<p>GROUNDWATER TCE DISTRIBUTION (JUNE 2019 - APRIL 2020)</p>			
<p>PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com</p>		<p>PREPARED FOR: ENPRO HOLDINGS, INC.</p>	
<p>PROJ MGR: KMH DESIGNED BY: KMH DATE: JULY, 2020</p>	<p>REVIEWED BY: AHA DRAWN BY: KMH PROJECT NO.: 20.0155935.00</p>	<p>CHECKED BY: KMH SCALE: see above REVISION NO.</p>	<p>FIG 11 SHEET NO. OF</p>

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LEGEND

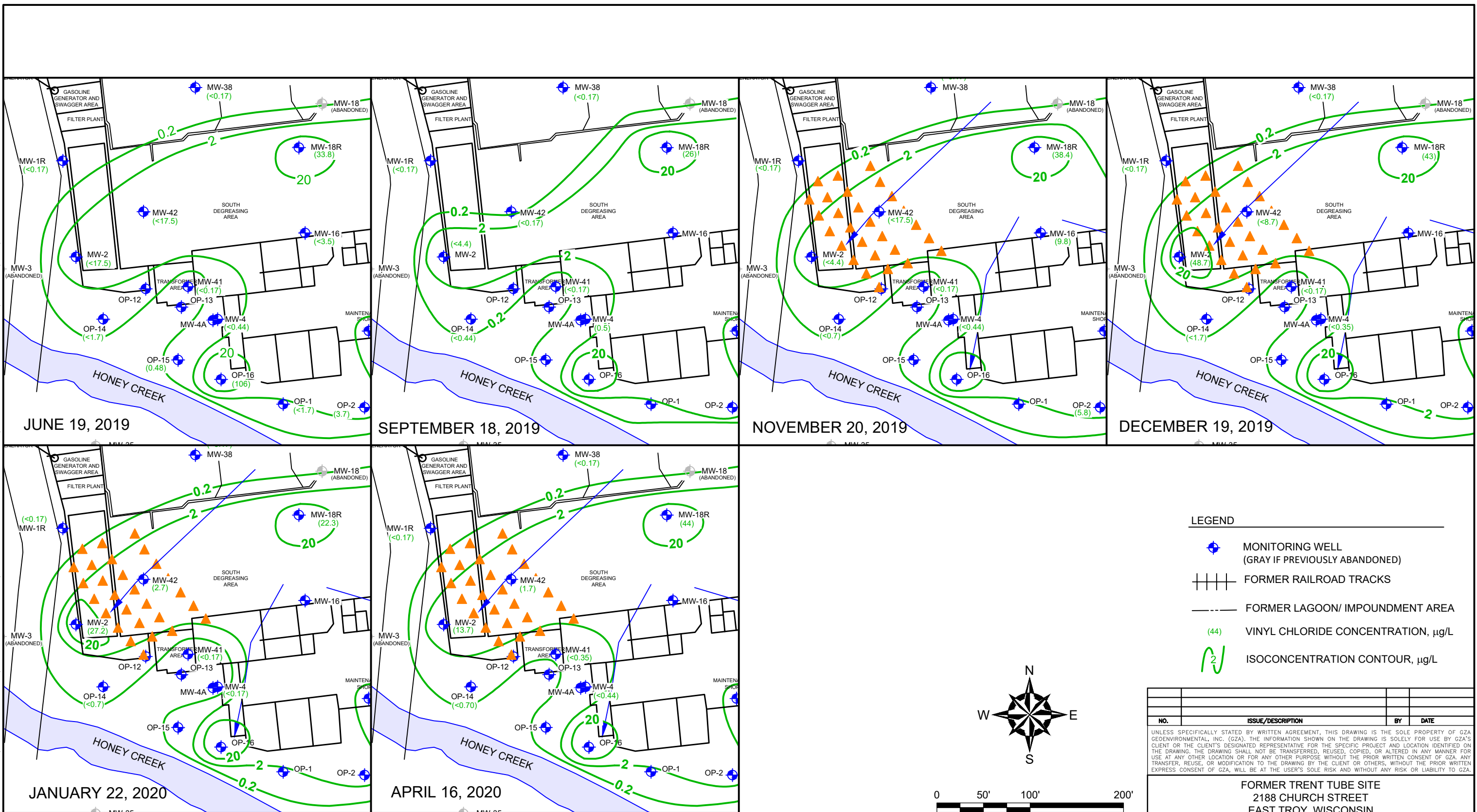
- MONITORING WELL (GRAY IF PREVIOUSLY ABANDONED)
- FORMER RAILROAD TRACKS
- FORMER LAGOON/ IMPOUNDMENT AREA
- (461) CIS-1,2-DCE CONCENTRATION, µg/L
- 70 ISOCONCENTRATION CONTOUR, µg/L



- NOTES**
- THE PURPOSE OF THIS DRAWING IS TO LOCATE, DESCRIBE, AND REPRESENT THE POSITIONS OF BORINGS, MONITORING WELLS, AND OTHER EXPLORATIONS IN RELATION TO THE SUBJECT SITE. THIS DRAWING IS NOT CONSIDERED A LAND SURVEY. THE LOCATIONS SHOWN SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED.
 - THE GROUNDWATER ENFORCEMENT STANDARD (ES) FOR TRICHLOROETHENE (TCE) IS 5 MICROGRAMS PER LITER (µg/L).

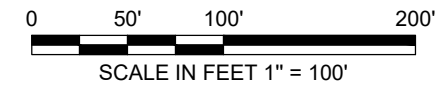
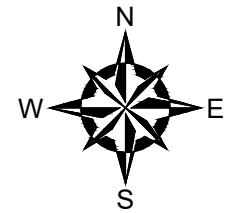
NO.	ISSUE/DESCRIPTION	BY	DATE
<p>UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.</p>			
<p>FORMER TRENT TUBE SITE 2188 CHURCH STREET EAST TROY, WISCONSIN</p>			
<p>CIS-1,2-DCE GROUNDWATER DISTRIBUTION (JUNE 2019 - APRIL 2020)</p>			
<p>PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com</p>		<p>PREPARED FOR: ENPRO HOLDINGS, INC.</p>	
<p>PROJ MGR: KMH DESIGNED BY: KMH DATE: JULY, 2020</p>	<p>REVIEWED BY: AHA DRAWN BY: KMH PROJECT NO.: 20.0155935.00</p>	<p>CHECKED BY: KMH SCALE: see above REVISION NO.</p>	<p>FIG 12 SHEET NO. OF</p>

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LEGEND

- MONITORING WELL (GRAY IF PREVIOUSLY ABANDONED)
- FORMER RAILROAD TRACKS
- FORMER LAGOON/ IMPOUNDMENT AREA
- VINYL CHLORIDE CONCENTRATION, µg/L
- ISOCONCENTRATION CONTOUR, µg/L



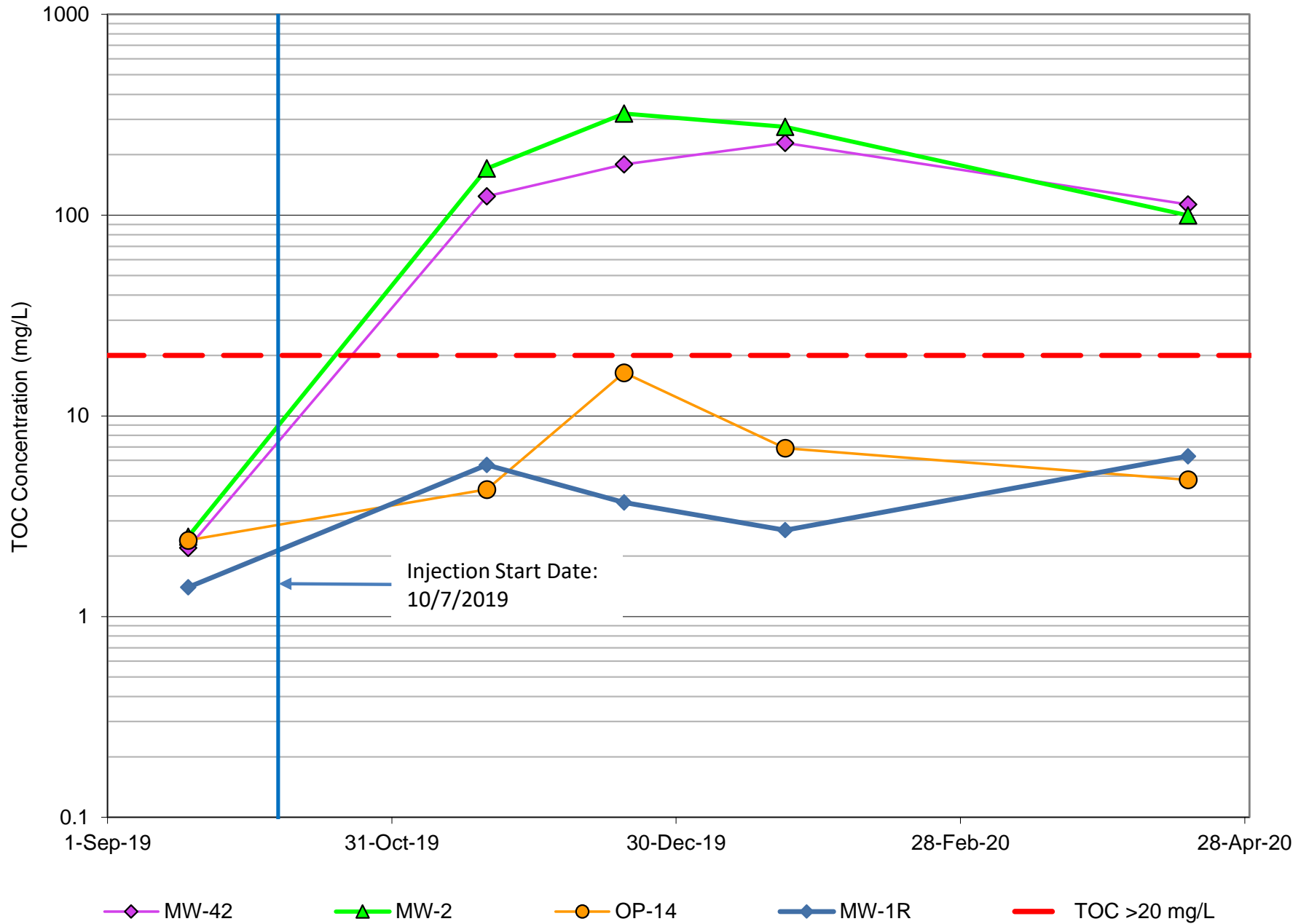
- NOTES**
1. THE PURPOSE OF THIS DRAWING IS TO LOCATE, DESCRIBE, AND REPRESENT THE POSITIONS OF BORINGS, MONITORING WELLS, AND OTHER EXPLORATIONS IN RELATION TO THE SUBJECT SITE. THIS DRAWING IS NOT CONSIDERED A LAND SURVEY. THE LOCATIONS SHOWN SHOULD BE CONSIDERED ACCURATE ONLY TO THE DEGREE IMPLIED BY THE METHOD USED.
 2. THE GROUNDWATER ENFORCEMENT STANDARD (ES) FOR TRICHLOROETHENE (TCE) IS 5 MICROGRAMS PER LITER (µg/L).

NO.	ISSUE/DESCRIPTION	BY	DATE
<p>UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE DRAWING SHALL NOT BE TRANSFERRED, REUSED, COPIED, OR ALTERED IN ANY MANNER FOR USE AT ANY OTHER LOCATION OR FOR ANY OTHER PURPOSE WITHOUT THE PRIOR WRITTEN CONSENT OF GZA. ANY TRANSFER, REUSE, OR MODIFICATION TO THE DRAWING BY THE CLIENT OR OTHERS, WITHOUT THE PRIOR WRITTEN EXPRESS CONSENT OF GZA, WILL BE AT THE USER'S SOLE RISK AND WITHOUT ANY RISK OR LIABILITY TO GZA.</p>			
<p>FORMER TRENT TUBE SITE 2188 CHURCH STREET EAST TROY, WISCONSIN</p>			
<p>GROUNDWATER VINYL CHLORIDE DISTRIBUTION (JUNE 2019 - APRIL 2020)</p>			
<p>PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com</p>		<p>PREPARED FOR: ENPRO HOLDINGS, INC.</p>	
<p>PROJ MGR: KMH</p>	<p>REVIEWED BY: AHA</p>	<p>CHECKED BY: KMH</p>	<p>FIG</p>
<p>DESIGNED BY: KMH</p>	<p>DRAWN BY: KMH</p>	<p>SCALE: see above</p>	<p>13 SHEET NO. OF</p>
<p>DATE: JULY, 2020</p>	<p>PROJECT NO. 20.0155935.00</p>	<p>REVISION NO.</p>	

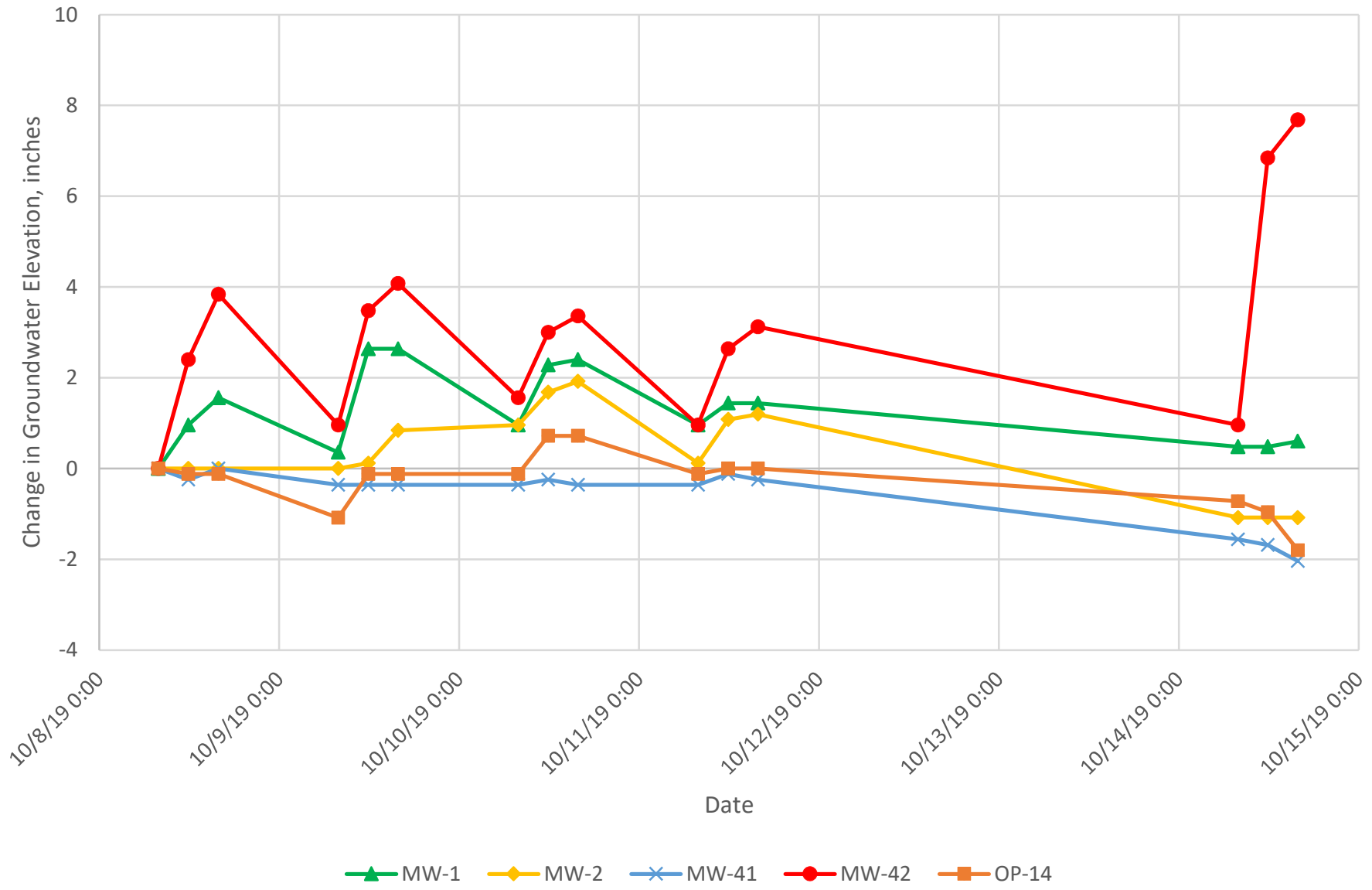


GRAPHS

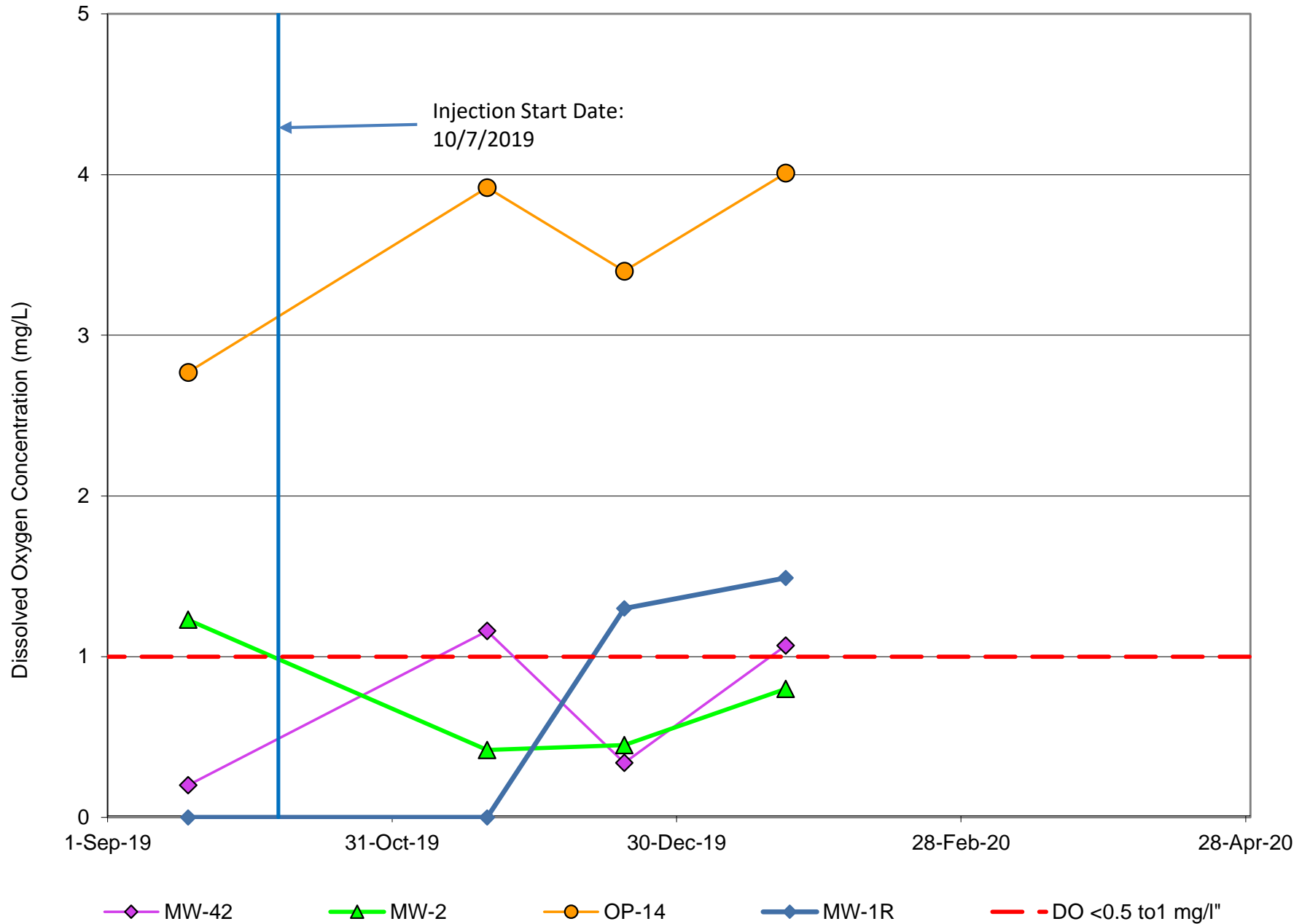
GRAPH 1
TOC Concentration vs. Time



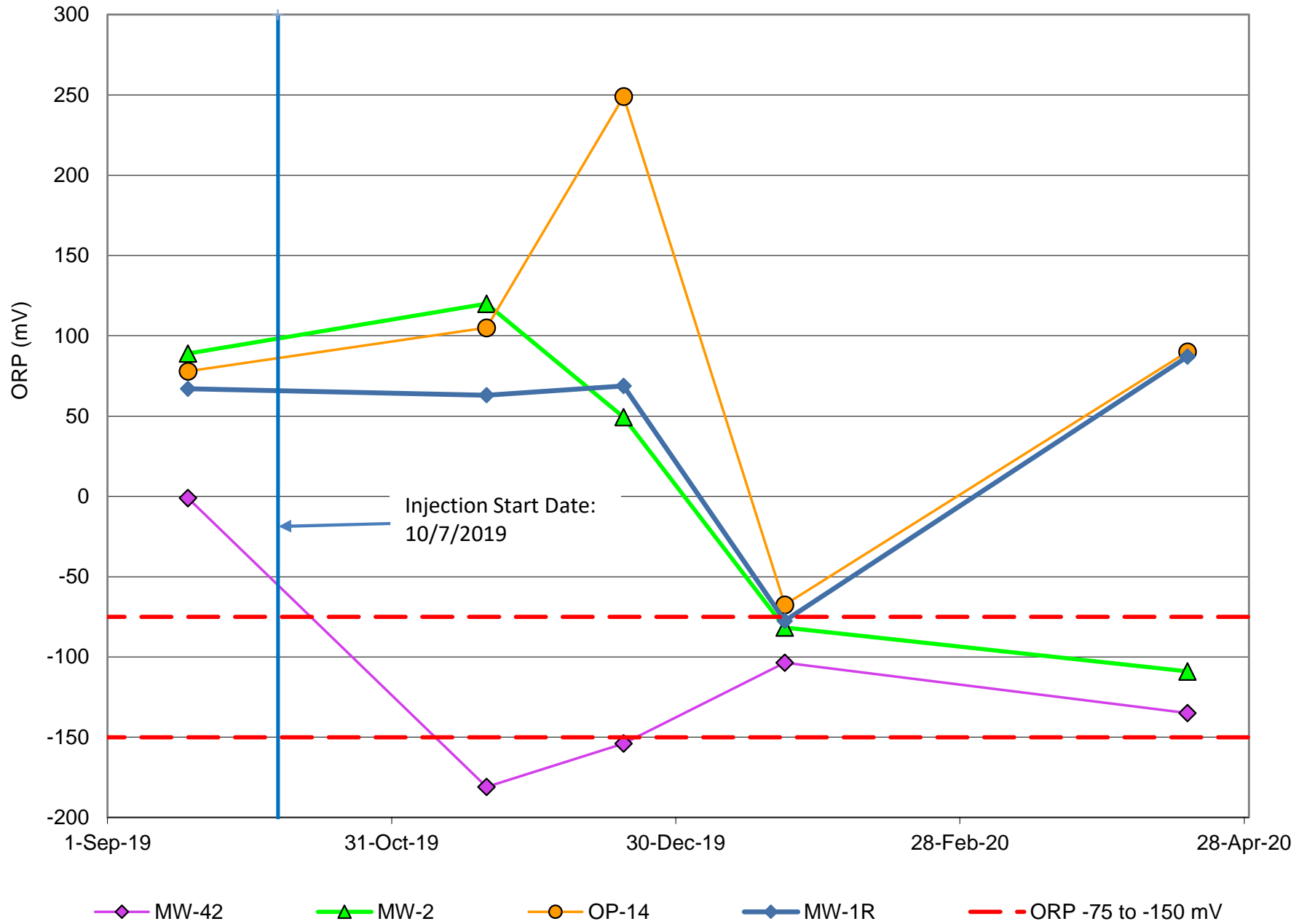
GRAPH 2
Groundwater Elevation Fluctuation During Pilot Test Injection



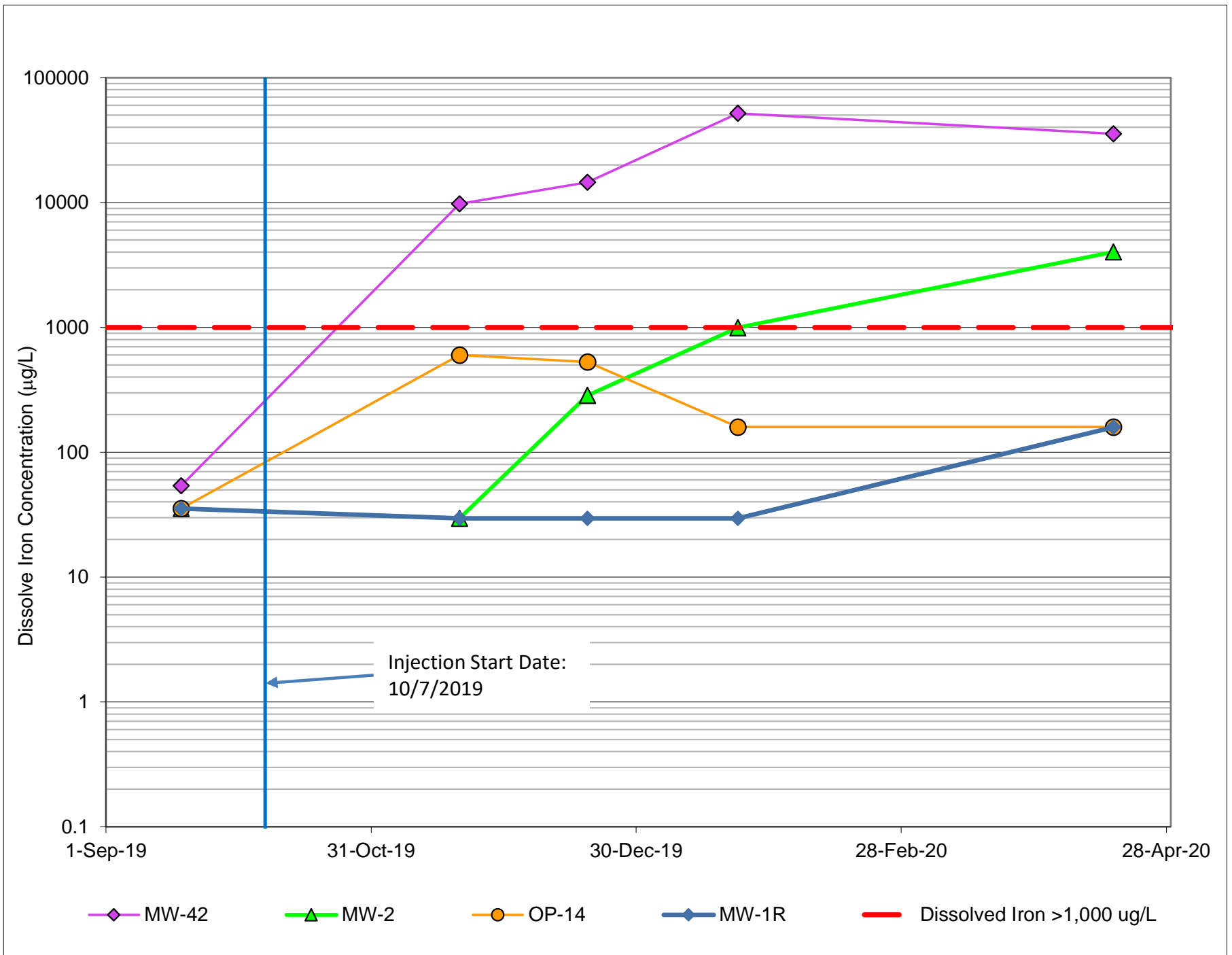
GRAPH 3
Dissolved Oxygen Concentration vs. Time



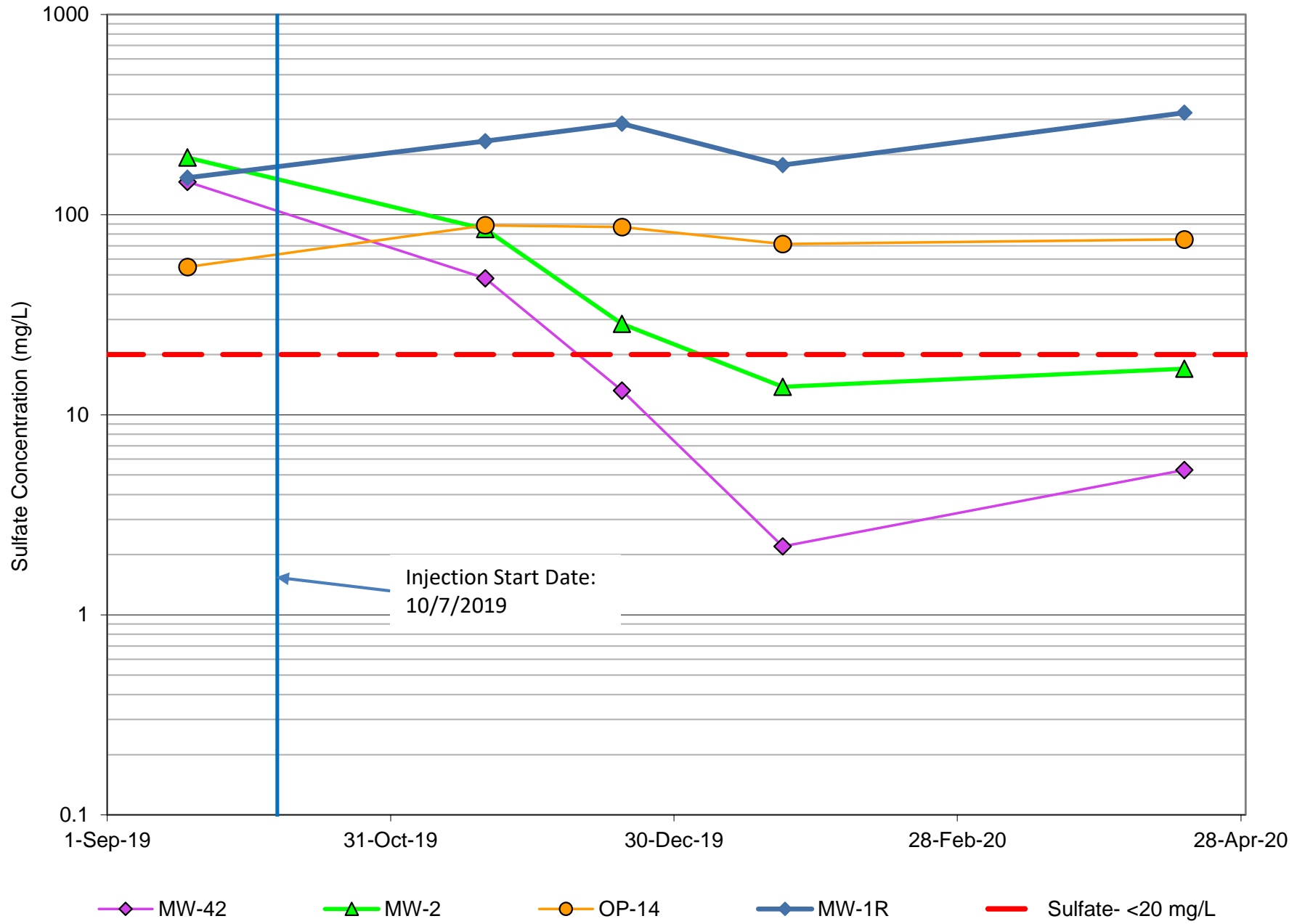
GRAPH 4
ORP vs. Time



Graph 5
Dissolved Iron Concentration vs. Time

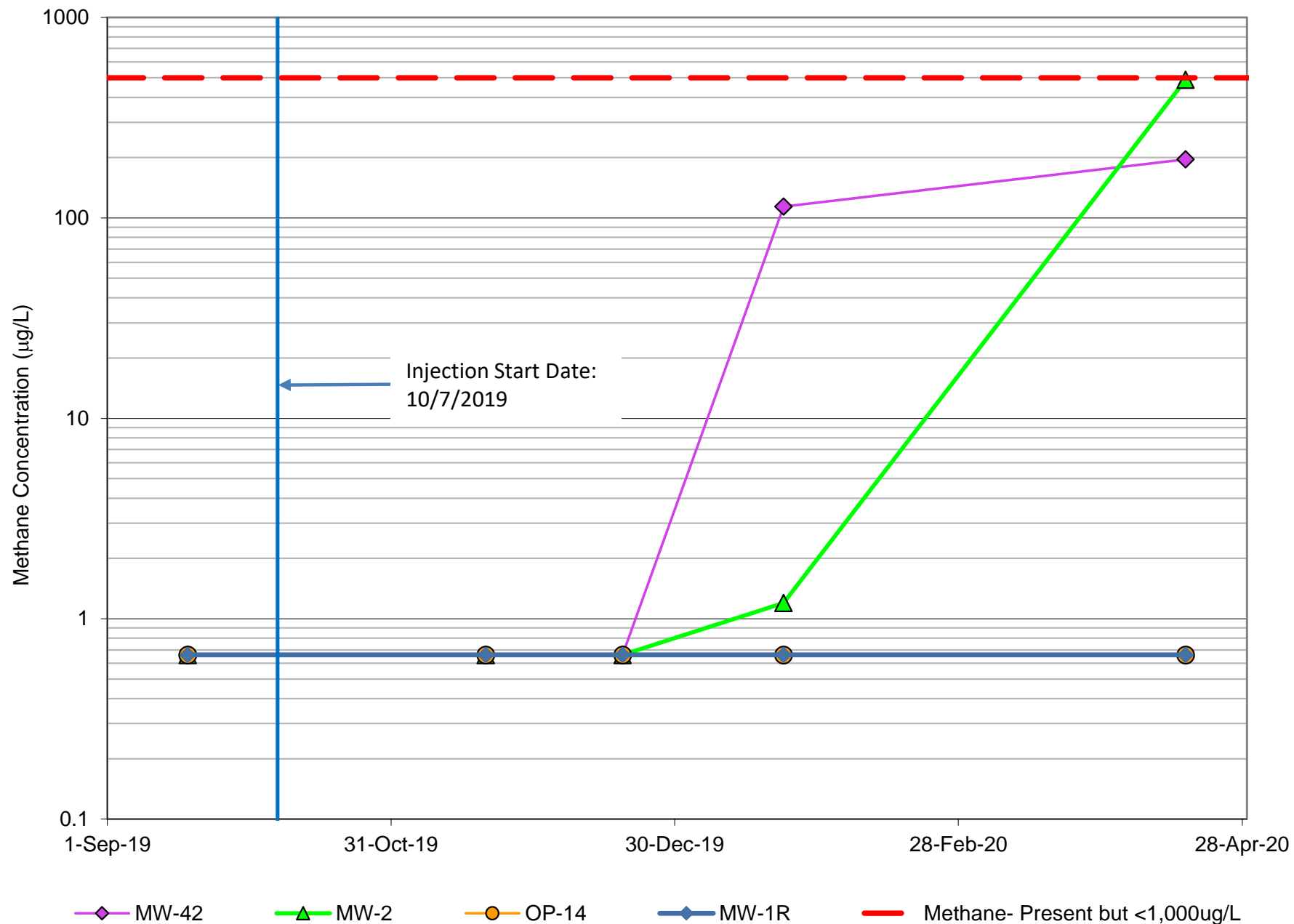


Graph 6
Sulfate Concentration vs. Time

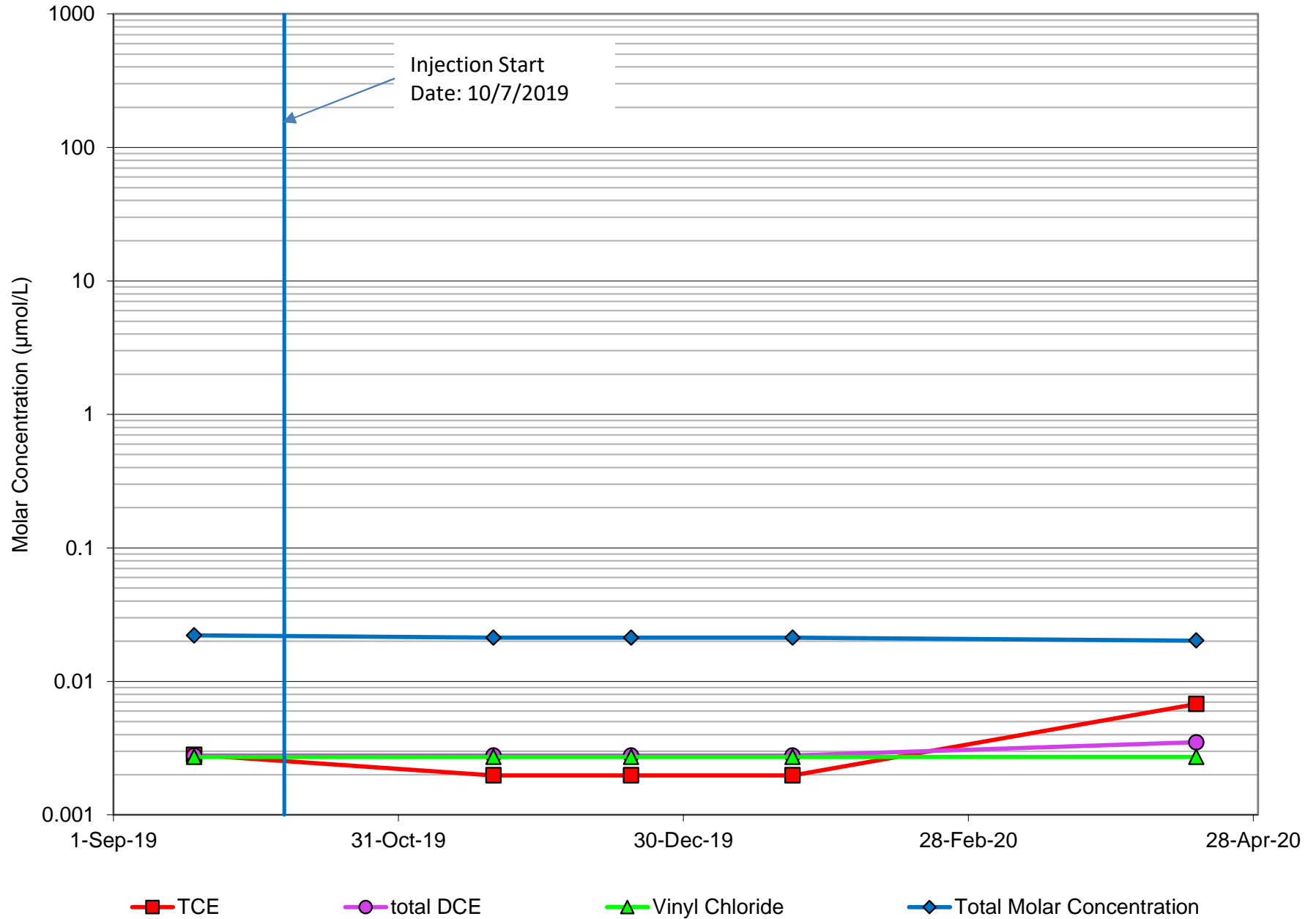


Graph 7

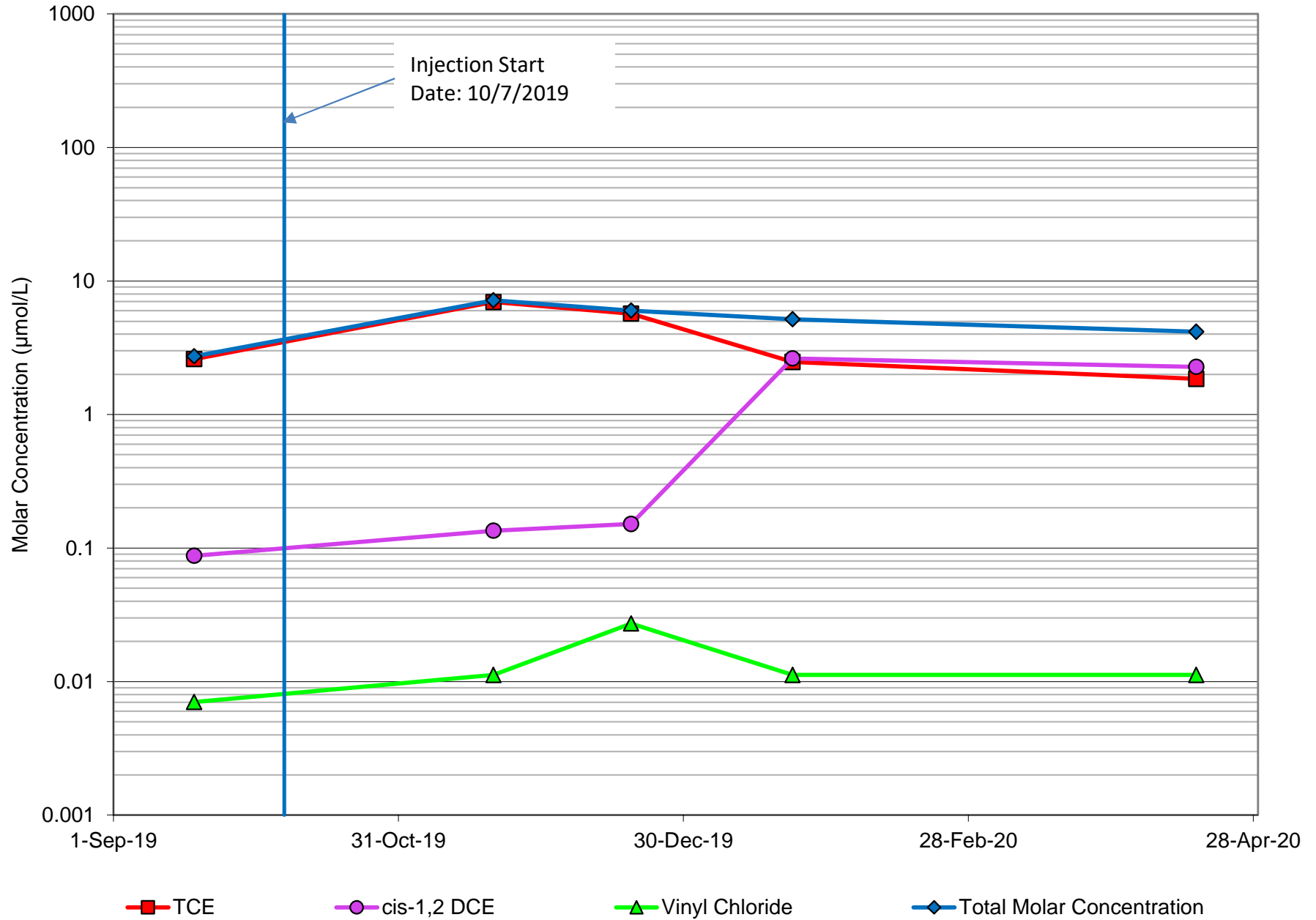
Methane Concentration vs. Time



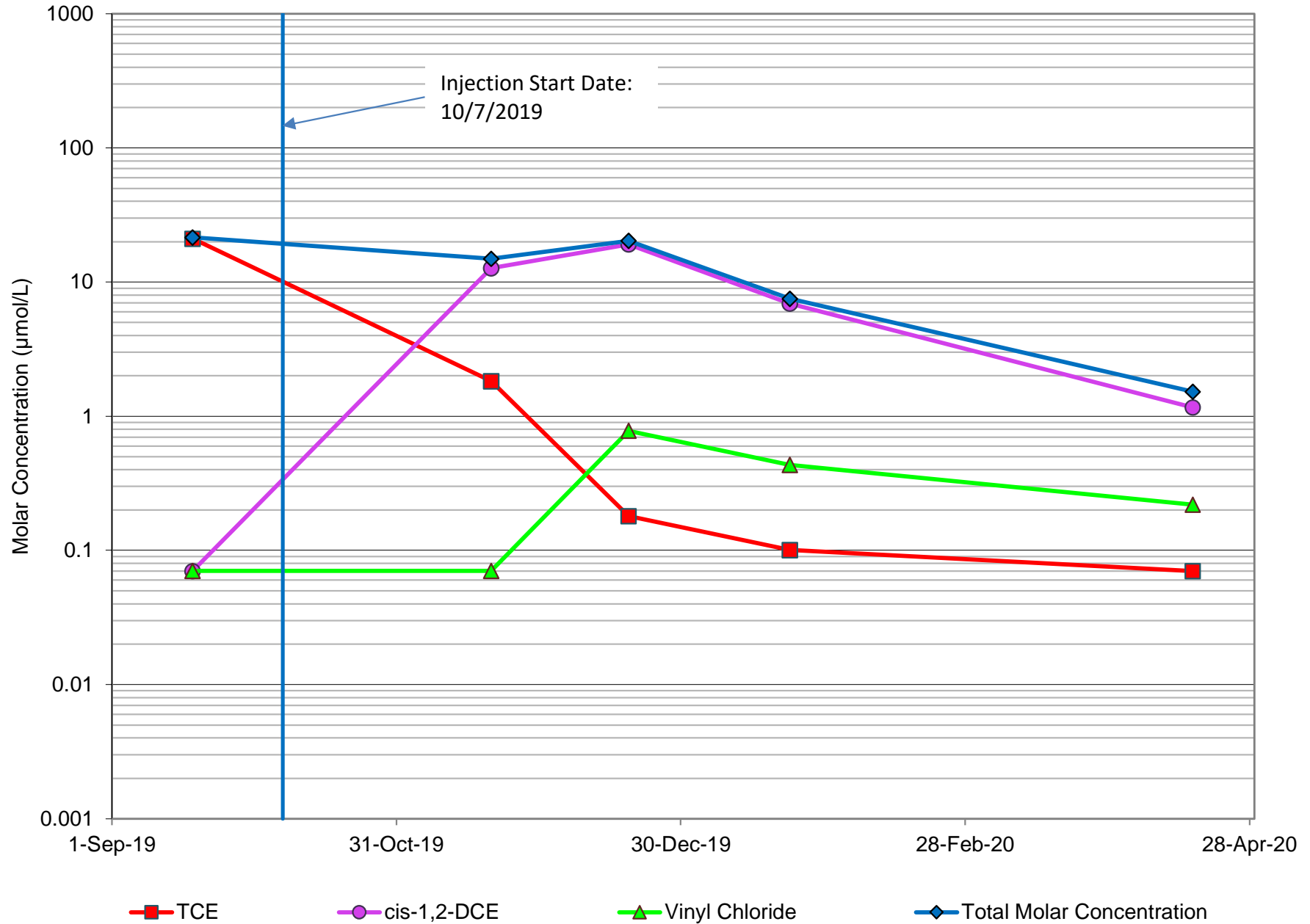
GRAPH 8
MW-1R Molar Concentrations



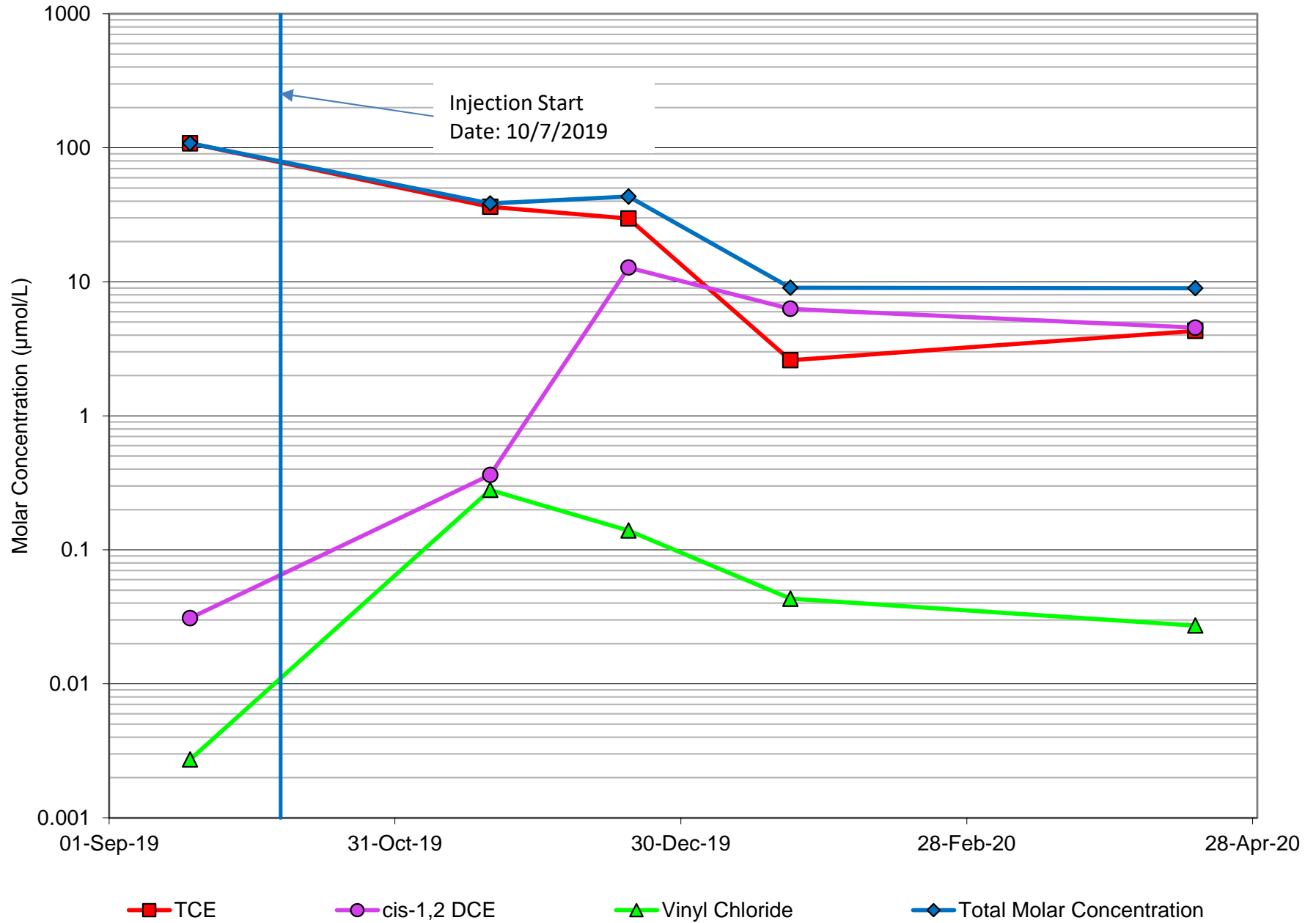
GRAPH 9
OP-14 Molar Concentrations



GRAPH 10
MW-2 Molar Concentrations



GRAPH 11
MW-42 Molar Concentrations





APPENDIX A

LIMITATIONS



LIMITATIONS

Standard of Care

1. GZA's findings and conclusions are based on the work conducted as part of the Scope of Services set forth in the Proposal for Services and/or Report and reflect our professional judgment. These findings and conclusions must be considered not as scientific or engineering certainties, but rather as our professional opinions concerning the limited data gathered during the course of our work. Conditions other than described in this report may be found at the subject location(s).
2. GZA's services were performed using the degree of skill and care ordinarily exercised by qualified professionals performing the same type of services, at the same time, under similar conditions, at the same or a similar property. No warranty, expressed or implied, is made. Specifically, GZA does not and cannot represent that the Site contains no hazardous material, oil, or other latent condition beyond that observed by GZA during its study. Additionally, GZA makes no warranty that any response action or recommended action will achieve all of its objectives or that the findings of this study will be upheld by a local, state or federal agency.
3. In conducting our work, GZA relied upon certain information made available by public agencies, Client and/or others. GZA did not attempt to independently verify the accuracy or completeness of that information. Inconsistencies in this information which we have noted, if any, are discussed in the Report.

Subsurface Conditions

4. The generalized soil profile(s) provided in our Report are based on widely-spaced subsurface explorations and are intended only to convey trends in subsurface conditions. The boundaries between strata are approximate and idealized, and were based on our assessment of subsurface conditions. The composition of strata, and the transitions between strata, may be more variable and more complex than indicated. For more specific information on soil conditions at a specific location refer to the exploration logs. The nature and extent of variations between these explorations may not become evident until further exploration or construction. If variations or other latent conditions then become evident, it will be necessary to reevaluate the conclusions and recommendations of this report.
5. Water level readings have been made, as described in this Report, in and monitoring wells at the specified times and under the stated conditions. These data have been reviewed and interpretations have been made in this report. Fluctuations in the level of the groundwater however occur due to temporal or spatial variations in areal recharge rates, soil heterogeneities, the presence of subsurface utilities, and/or natural or artificially induced perturbations. The observed water table may be other than indicated in the Report.

Compliance with Codes and Regulations

6. We used reasonable care in identifying and interpreting applicable codes and regulations necessary to execute our scope of work. These codes and regulations are subject to various, and possibly contradictory, interpretations. Interpretations and compliance with codes and regulations by other parties is beyond our control.

Screening and Analytical Testing

7. GZA collected environmental samples at the locations identified in the Report. These samples were analyzed for the specific parameters identified in the report. Additional constituents, for which analyses were not conducted, may be present in soil, groundwater, surface water, sediment and/or air. Future Site activities and uses may result in a requirement for additional testing.
8. Our interpretation of field screening and laboratory data is presented in the Report. Unless otherwise noted, we relied upon the laboratory's QA/QC program to validate these data.
9. Variations in the types and concentrations of contaminants observed at a given location or time may occur due to release mechanisms, disposal practices, changes in flow paths, and/or the influence of various physical, chemical, biological or radiological processes. Subsequently observed concentrations may be other than indicated in the Report.



Interpretation of Data

10. Our opinions are based on available information as described in the Report, and on our professional judgment. Additional observations made over time, and/or space, may not support the opinions provided in the Report.

Additional Information

11. In the event that the Client or others authorized to use this report obtain additional information on environmental or hazardous waste issues at the Site not contained in this report, such information shall be brought to GZA's attention forthwith. GZA will evaluate such information and, on the basis of this evaluation, may modify the conclusions stated in this report.

Additional Services

12. GZA recommends that we be retained to provide services during any future investigations, design, implementation activities, construction, and/or property development/ redevelopment at the Site. This will allow us the opportunity to: i) observe conditions and compliance with our design concepts and opinions; ii) allow for changes in the event that conditions are other than anticipated; iii) provide modifications to our design; and iv) assess the consequences of changes in technologies and/or regulations.

Conceptual Site Model

13. Our opinions were developed, in part, based upon a comparison of site data to conditions anticipated within our Conceptual Site Model (CSM). The CSM is based on available information, and professional judgment. There are rarely sufficient data to develop a unique CSM. Therefore observations over time, and/or space, may vary from those depicted in the CSM provided in this report. In addition, the CSM should be evaluated and refined (as appropriate) whenever significant new information and/or data is obtained.



APPENDIX B

PRE-INJECTION GROUNDWATER LABORATORY ANALYTICAL REPORT AND CHAIN-OF-CUSTODY FORM

September 27, 2019

Kevin Hedinger
GZA
20900 Swenson Drive
Suite 150
Waukesha, WI 53186

RE: Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40195477

Dear Kevin Hedinger:

Enclosed are the analytical results for sample(s) received by the laboratory on September 19, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40195477

Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40195477

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40195477001	MW-1R	Water	09/18/19 11:10	09/19/19 08:50
40195477002	MW-2	Water	09/18/19 10:43	09/19/19 08:50
40195477003	MW-4	Water	09/18/19 12:32	09/19/19 08:50
40195477004	MW-18R	Water	09/18/19 09:41	09/19/19 08:50
40195477005	MW-38	Water	09/18/19 10:13	09/19/19 08:50
40195477006	MW-41	Water	09/18/19 12:06	09/19/19 08:50
40195477007	MW-42	Water	09/18/19 11:38	09/19/19 08:50
40195477008	OP-14	Water	09/18/19 13:02	09/19/19 08:50
40195477009	TRIP	Water	09/18/19 00:00	09/19/19 08:50

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40195477

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40195477001	MW-1R	EPA 8015B Modified	ALD	3	PASI-G
		EPA 6010	TXW	1	PASI-G
		EPA 8260	SMT	64	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40195477002	MW-2	EPA 8015B Modified	ALD	3	PASI-G
		EPA 6010	TXW	1	PASI-G
		EPA 8260	SMT	64	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40195477003	MW-4	EPA 8015B Modified	ALD	3	PASI-G
		EPA 6010	TXW	1	PASI-G
		EPA 8260	SMT	64	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40195477004	MW-18R	EPA 8015B Modified	ALD	3	PASI-G
		EPA 6010	TXW	1	PASI-G
		EPA 8260	SMT	64	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40195477005	MW-38	EPA 8015B Modified	ALD	3	PASI-G
		EPA 6010	TXW	1	PASI-G
		EPA 8260	SMT	64	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40195477006	MW-41	EPA 8015B Modified	ALD	3	PASI-G
		EPA 6010	TXW	1	PASI-G
		EPA 8260	SMT	64	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40195477007	MW-42	EPA 8015B Modified	ALD	3	PASI-G
		EPA 6010	TXW	1	PASI-G
		EPA 8260	SMT	64	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40195477008	OP-14	EPA 8015B Modified	ALD	3	PASI-G
		EPA 6010	TXW	1	PASI-G

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40195477

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260	SMT	64	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40195477009	TRIP	EPA 8260	SMT	64	PASI-G

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SUMMARY OF DETECTION

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40195477

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
40195477001	MW-1R					
EPA 8260	1,1,1-Trichloroethane	0.86J	ug/L	1.0	09/20/19 14:05	
EPA 8260	1,1-Dichloroethane	0.60J	ug/L	1.0	09/20/19 14:05	
EPA 8260	Tetrachloroethene	1.1J	ug/L	1.1	09/20/19 14:05	
EPA 8260	Trichloroethene	0.37J	ug/L	1.0	09/20/19 14:05	
EPA 300.0	Sulfate	153	mg/L	30.0	09/25/19 13:04	
SM 5310C	Total Organic Carbon	1.4	mg/L	0.84	09/25/19 12:29	
40195477002	MW-2					
EPA 8260	1,1,1-Trichloroethane	6.9J	ug/L	25.0	09/23/19 14:45	
EPA 8260	Trichloroethene	2770	ug/L	25.0	09/23/19 14:45	
EPA 300.0	Sulfate	193	mg/L	15.0	09/24/19 14:08	
SM 5310C	Total Organic Carbon	2.5	mg/L	1.7	09/24/19 19:21	
40195477003	MW-4					
EPA 8260	1,1,1-Trichloroethane	5.0	ug/L	2.5	09/23/19 11:37	
EPA 8260	1,1-Dichloroethane	0.75J	ug/L	2.5	09/23/19 11:37	
EPA 8260	Tetrachloroethene	4.3	ug/L	2.7	09/23/19 11:37	
EPA 8260	Trichloroethene	322	ug/L	2.5	09/23/19 11:37	
EPA 8260	Vinyl chloride	0.50J	ug/L	2.5	09/23/19 11:37	
EPA 8260	cis-1,2-Dichloroethene	16.6	ug/L	2.5	09/23/19 11:37	
EPA 300.0	Sulfate	92.3	mg/L	15.0	09/25/19 13:47	
SM 5310C	Total Organic Carbon	2.0	mg/L	1.7	09/24/19 19:42	
40195477004	MW-18R					
EPA 8015B Modified	Ethene	1.3J	ug/L	5.0	09/24/19 10:02	
EPA 8015B Modified	Methane	246	ug/L	2.8	09/24/19 10:02	
EPA 8260	1,1,1-Trichloroethane	4.0	ug/L	1.0	09/20/19 14:25	
EPA 8260	1,1-Dichloroethane	7.2	ug/L	1.0	09/20/19 14:25	
EPA 8260	1,1-Dichloroethene	5.9	ug/L	1.0	09/20/19 14:25	
EPA 8260	Tetrachloroethene	0.85J	ug/L	1.1	09/20/19 14:25	
EPA 8260	Trichloroethene	1570	ug/L	25.0	09/23/19 12:16	
EPA 8260	Vinyl chloride	26.0	ug/L	1.0	09/20/19 14:25	
EPA 8260	cis-1,2-Dichloroethene	738	ug/L	25.0	09/23/19 12:16	
EPA 8260	trans-1,2-Dichloroethene	15.6	ug/L	3.6	09/20/19 14:25	
EPA 300.0	Sulfate	107	mg/L	15.0	09/25/19 14:01	
SM 5310C	Total Organic Carbon	2.2	mg/L	0.84	09/24/19 20:03	
40195477005	MW-38					
EPA 8260	1,1,1-Trichloroethane	0.33J	ug/L	1.0	09/23/19 09:52	
EPA 300.0	Sulfate	88.7	mg/L	15.0	09/25/19 14:16	
SM 5310C	Total Organic Carbon	1.3	mg/L	0.84	09/24/19 20:23	
40195477006	MW-41					
EPA 8260	1,1,1-Trichloroethane	2.9	ug/L	1.0	09/20/19 15:04	
EPA 8260	1,1-Dichloroethane	0.88J	ug/L	1.0	09/20/19 15:04	
EPA 8260	Tetrachloroethene	1.9	ug/L	1.1	09/20/19 15:04	
EPA 8260	Trichloroethene	1450	ug/L	40.0	09/23/19 12:48	
EPA 8260	cis-1,2-Dichloroethene	1.1	ug/L	1.0	09/20/19 15:04	
EPA 300.0	Sulfate	63.5	mg/L	15.0	09/25/19 14:30	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40195477

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40195477006	MW-41					
SM 5310C	Total Organic Carbon	1.6	mg/L	0.84	09/24/19 20:44	
40195477007	MW-42					
EPA 6010	Iron, Dissolved	54.0J	ug/L	118	09/21/19 14:09	
EPA 8260	1,1,1-Trichloroethane	12.8	ug/L	1.0	09/20/19 15:24	
EPA 8260	1,1-Dichloroethane	2.1	ug/L	1.0	09/20/19 15:24	
EPA 8260	Tetrachloroethene	6.8	ug/L	1.1	09/20/19 15:24	
EPA 8260	Toluene	0.50J	ug/L	5.0	09/20/19 15:24	
EPA 8260	Trichloroethene	14200	ug/L	250	09/23/19 13:07	
EPA 8260	cis-1,2-Dichloroethene	3.0	ug/L	1.0	09/20/19 15:24	
EPA 300.0	Sulfate	146	mg/L	15.0	09/25/19 14:45	
SM 5310C	Total Organic Carbon	2.2	mg/L	1.7	09/24/19 21:26	
40195477008	OP-14					
EPA 8260	1,1,1-Trichloroethane	2.8	ug/L	2.5	09/23/19 15:04	
EPA 8260	Tetrachloroethene	10.7	ug/L	2.7	09/23/19 15:04	
EPA 8260	Trichloroethene	341	ug/L	2.5	09/23/19 15:04	
EPA 8260	cis-1,2-Dichloroethene	8.5	ug/L	2.5	09/23/19 15:04	
EPA 300.0	Sulfate	54.8	mg/L	3.0	09/24/19 15:35	
SM 5310C	Total Organic Carbon	2.4	mg/L	1.7	09/24/19 21:47	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40195477

Sample: MW-1R **Lab ID: 40195477001** Collected: 09/18/19 11:10 Received: 09/19/19 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV		Analytical Method: EPA 8015B Modified							
Ethane	<1.2	ug/L	5.6	1.2	1		09/24/19 09:41	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		09/24/19 09:41	74-85-1	
Methane	<0.66	ug/L	2.8	0.66	1		09/24/19 09:41	74-82-8	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	<35.4	ug/L	118	35.4	1		09/21/19 13:50	7439-89-6	
8260 MSV		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		09/20/19 14:05	630-20-6	
1,1,1-Trichloroethane	0.86J	ug/L	1.0	0.24	1		09/20/19 14:05	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		09/20/19 14:05	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		09/20/19 14:05	79-00-5	
1,1-Dichloroethane	0.60J	ug/L	1.0	0.27	1		09/20/19 14:05	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		09/20/19 14:05	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		09/20/19 14:05	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		09/20/19 14:05	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		09/20/19 14:05	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		09/20/19 14:05	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		09/20/19 14:05	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		09/20/19 14:05	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		09/20/19 14:05	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		09/20/19 14:05	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		09/20/19 14:05	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		09/20/19 14:05	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		09/20/19 14:05	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		09/20/19 14:05	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		09/20/19 14:05	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		09/20/19 14:05	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		09/20/19 14:05	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		09/20/19 14:05	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		09/20/19 14:05	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		09/20/19 14:05	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		09/20/19 14:05	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		09/20/19 14:05	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		09/20/19 14:05	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		09/20/19 14:05	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		09/20/19 14:05	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		09/20/19 14:05	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		09/20/19 14:05	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		09/20/19 14:05	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		09/20/19 14:05	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		09/20/19 14:05	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		09/20/19 14:05	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		09/20/19 14:05	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		09/20/19 14:05	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		09/20/19 14:05	108-20-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40195477

Sample: MW-1R **Lab ID: 40195477001** Collected: 09/18/19 11:10 Received: 09/19/19 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		09/20/19 14:05	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		09/20/19 14:05	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		09/20/19 14:05	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		09/20/19 14:05	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		09/20/19 14:05	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		09/20/19 14:05	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		09/20/19 14:05	100-42-5	
Tetrachloroethene	1.1J	ug/L	1.1	0.33	1		09/20/19 14:05	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		09/20/19 14:05	108-88-3	
Trichloroethene	0.37J	ug/L	1.0	0.26	1		09/20/19 14:05	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		09/20/19 14:05	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		09/20/19 14:05	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		09/20/19 14:05	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		09/20/19 14:05	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		09/20/19 14:05	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		09/20/19 14:05	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		09/20/19 14:05	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		09/20/19 14:05	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		09/20/19 14:05	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		09/20/19 14:05	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		09/20/19 14:05	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		09/20/19 14:05	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		09/20/19 14:05	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		09/20/19 14:05	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		09/20/19 14:05	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		09/20/19 14:05	2037-26-5	
300.0 IC Anions Analytical Method: EPA 300.0									
Sulfate	153	mg/L	30.0	10.0	10		09/25/19 13:04	14808-79-8	
5310C TOC Analytical Method: SM 5310C									
Total Organic Carbon	1.4	mg/L	0.84	0.25	1		09/25/19 12:29	7440-44-0	

Sample: MW-2 **Lab ID: 40195477002** Collected: 09/18/19 10:43 Received: 09/19/19 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Ethane	<1.2	ug/L	5.6	1.2	1		09/24/19 09:48	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		09/24/19 09:48	74-85-1	
Methane	<0.66	ug/L	2.8	0.66	1		09/24/19 09:48	74-82-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40195477

Sample: MW-2 **Lab ID: 40195477002** Collected: 09/18/19 10:43 Received: 09/19/19 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	<35.4	ug/L	118	35.4	1		09/21/19 13:52	7439-89-6	
8260 MSV		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<6.7	ug/L	25.0	6.7	25		09/23/19 14:45	630-20-6	
1,1,1-Trichloroethane	6.9J	ug/L	25.0	6.1	25		09/23/19 14:45	71-55-6	
1,1,2,2-Tetrachloroethane	<6.9	ug/L	25.0	6.9	25		09/23/19 14:45	79-34-5	
1,1,2-Trichloroethane	<13.8	ug/L	125	13.8	25		09/23/19 14:45	79-00-5	
1,1-Dichloroethane	<6.8	ug/L	25.0	6.8	25		09/23/19 14:45	75-34-3	
1,1-Dichloroethene	<6.1	ug/L	25.0	6.1	25		09/23/19 14:45	75-35-4	
1,1-Dichloropropene	<13.5	ug/L	45.0	13.5	25		09/23/19 14:45	563-58-6	
1,2,3-Trichlorobenzene	<15.6	ug/L	125	15.6	25		09/23/19 14:45	87-61-6	
1,2,3-Trichloropropane	<14.8	ug/L	125	14.8	25		09/23/19 14:45	96-18-4	
1,2,4-Trichlorobenzene	<23.8	ug/L	125	23.8	25		09/23/19 14:45	120-82-1	
1,2,4-Trimethylbenzene	<21.0	ug/L	70.0	21.0	25		09/23/19 14:45	95-63-6	
1,2-Dibromo-3-chloropropane	<44.1	ug/L	147	44.1	25		09/23/19 14:45	96-12-8	
1,2-Dibromoethane (EDB)	<20.7	ug/L	69.1	20.7	25		09/23/19 14:45	106-93-4	
1,2-Dichlorobenzene	<17.6	ug/L	58.8	17.6	25		09/23/19 14:45	95-50-1	
1,2-Dichloroethane	<7.0	ug/L	25.0	7.0	25		09/23/19 14:45	107-06-2	
1,2-Dichloropropane	<7.1	ug/L	25.0	7.1	25		09/23/19 14:45	78-87-5	
1,3,5-Trimethylbenzene	<21.8	ug/L	72.8	21.8	25		09/23/19 14:45	108-67-8	
1,3-Dichlorobenzene	<15.7	ug/L	52.3	15.7	25		09/23/19 14:45	541-73-1	
1,3-Dichloropropane	<20.6	ug/L	68.8	20.6	25		09/23/19 14:45	142-28-9	
1,4-Dichlorobenzene	<23.6	ug/L	78.6	23.6	25		09/23/19 14:45	106-46-7	
2,2-Dichloropropane	<56.6	ug/L	189	56.6	25		09/23/19 14:45	594-20-7	
2-Chlorotoluene	<23.2	ug/L	125	23.2	25		09/23/19 14:45	95-49-8	
4-Chlorotoluene	<18.9	ug/L	63.0	18.9	25		09/23/19 14:45	106-43-4	
Benzene	<6.2	ug/L	25.0	6.2	25		09/23/19 14:45	71-43-2	
Bromobenzene	<6.0	ug/L	25.0	6.0	25		09/23/19 14:45	108-86-1	
Bromochloromethane	<9.1	ug/L	125	9.1	25		09/23/19 14:45	74-97-5	
Bromodichloromethane	<9.1	ug/L	30.3	9.1	25		09/23/19 14:45	75-27-4	
Bromoform	<99.3	ug/L	331	99.3	25		09/23/19 14:45	75-25-2	
Bromomethane	<24.3	ug/L	125	24.3	25		09/23/19 14:45	74-83-9	
Carbon tetrachloride	<4.1	ug/L	25.0	4.1	25		09/23/19 14:45	56-23-5	
Chlorobenzene	<17.8	ug/L	59.2	17.8	25		09/23/19 14:45	108-90-7	
Chloroethane	<33.6	ug/L	125	33.6	25		09/23/19 14:45	75-00-3	
Chloroform	<31.8	ug/L	125	31.8	25		09/23/19 14:45	67-66-3	
Chloromethane	<54.7	ug/L	182	54.7	25		09/23/19 14:45	74-87-3	
Dibromochloromethane	<65.0	ug/L	217	65.0	25		09/23/19 14:45	124-48-1	
Dibromomethane	<23.4	ug/L	78.1	23.4	25		09/23/19 14:45	74-95-3	
Dichlorodifluoromethane	<12.5	ug/L	125	12.5	25		09/23/19 14:45	75-71-8	
Diisopropyl ether	<47.2	ug/L	157	47.2	25		09/23/19 14:45	108-20-3	
Ethylbenzene	<5.5	ug/L	25.0	5.5	25		09/23/19 14:45	100-41-4	
Hexachloro-1,3-butadiene	<29.6	ug/L	125	29.6	25		09/23/19 14:45	87-68-3	
Isopropylbenzene (Cumene)	<9.8	ug/L	125	9.8	25		09/23/19 14:45	98-82-8	
Methyl-tert-butyl ether	<31.1	ug/L	104	31.1	25		09/23/19 14:45	1634-04-4	
Methylene Chloride	<14.5	ug/L	125	14.5	25		09/23/19 14:45	75-09-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40195477

Sample: MW-2 **Lab ID: 40195477002** Collected: 09/18/19 10:43 Received: 09/19/19 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Naphthalene	<29.4	ug/L	125	29.4	25		09/23/19 14:45	91-20-3	
Styrene	<11.6	ug/L	38.8	11.6	25		09/23/19 14:45	100-42-5	
Tetrachloroethene	<8.2	ug/L	27.2	8.2	25		09/23/19 14:45	127-18-4	
Toluene	<4.3	ug/L	125	4.3	25		09/23/19 14:45	108-88-3	
Trichloroethene	2770	ug/L	25.0	6.4	25		09/23/19 14:45	79-01-6	
Trichlorofluoromethane	<5.4	ug/L	25.0	5.4	25		09/23/19 14:45	75-69-4	
Vinyl chloride	<4.4	ug/L	25.0	4.4	25		09/23/19 14:45	75-01-4	
cis-1,2-Dichloroethene	<6.8	ug/L	25.0	6.8	25		09/23/19 14:45	156-59-2	
cis-1,3-Dichloropropene	<90.7	ug/L	302	90.7	25		09/23/19 14:45	10061-01-5	
m&p-Xylene	<11.6	ug/L	50.0	11.6	25		09/23/19 14:45	179601-23-1	
n-Butylbenzene	<17.7	ug/L	59.0	17.7	25		09/23/19 14:45	104-51-8	
n-Propylbenzene	<20.3	ug/L	125	20.3	25		09/23/19 14:45	103-65-1	
o-Xylene	<6.5	ug/L	25.0	6.5	25		09/23/19 14:45	95-47-6	
p-Isopropyltoluene	<20.0	ug/L	66.7	20.0	25		09/23/19 14:45	99-87-6	
sec-Butylbenzene	<21.2	ug/L	125	21.2	25		09/23/19 14:45	135-98-8	
tert-Butylbenzene	<7.6	ug/L	25.3	7.6	25		09/23/19 14:45	98-06-6	
trans-1,2-Dichloroethene	<27.3	ug/L	90.9	27.3	25		09/23/19 14:45	156-60-5	
trans-1,3-Dichloropropene	<109	ug/L	364	109	25		09/23/19 14:45	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		25		09/23/19 14:45	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		25		09/23/19 14:45	1868-53-7	
Toluene-d8 (S)	101	%	70-130		25		09/23/19 14:45	2037-26-5	
300.0 IC Anions Analytical Method: EPA 300.0									
Sulfate	193	mg/L	15.0	5.0	5		09/24/19 14:08	14808-79-8	
5310C TOC Analytical Method: SM 5310C									
Total Organic Carbon	2.5	mg/L	1.7	0.50	2		09/24/19 19:21	7440-44-0	

Sample: MW-4 **Lab ID: 40195477003** Collected: 09/18/19 12:32 Received: 09/19/19 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Ethane	<1.2	ug/L	5.6	1.2	1		09/24/19 09:55	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		09/24/19 09:55	74-85-1	
Methane	<0.66	ug/L	2.8	0.66	1		09/24/19 09:55	74-82-8	
6010 MET ICP, Dissolved Analytical Method: EPA 6010									
Iron, Dissolved	<35.4	ug/L	118	35.4	1		09/21/19 13:55	7439-89-6	
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.67	ug/L	2.5	0.67	2.5		09/23/19 11:37	630-20-6	
1,1,1-Trichloroethane	5.0	ug/L	2.5	0.61	2.5		09/23/19 11:37	71-55-6	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40195477

Sample: MW-4 **Lab ID: 40195477003** Collected: 09/18/19 12:32 Received: 09/19/19 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.69	ug/L	2.5	0.69	2.5		09/23/19 11:37	79-34-5	
1,1,2-Trichloroethane	<1.4	ug/L	12.5	1.4	2.5		09/23/19 11:37	79-00-5	
1,1-Dichloroethane	0.75J	ug/L	2.5	0.68	2.5		09/23/19 11:37	75-34-3	
1,1-Dichloroethene	<0.61	ug/L	2.5	0.61	2.5		09/23/19 11:37	75-35-4	
1,1-Dichloropropene	<1.4	ug/L	4.5	1.4	2.5		09/23/19 11:37	563-58-6	
1,2,3-Trichlorobenzene	<1.6	ug/L	12.5	1.6	2.5		09/23/19 11:37	87-61-6	
1,2,3-Trichloropropane	<1.5	ug/L	12.5	1.5	2.5		09/23/19 11:37	96-18-4	
1,2,4-Trichlorobenzene	<2.4	ug/L	12.5	2.4	2.5		09/23/19 11:37	120-82-1	
1,2,4-Trimethylbenzene	<2.1	ug/L	7.0	2.1	2.5		09/23/19 11:37	95-63-6	
1,2-Dibromo-3-chloropropane	<4.4	ug/L	14.7	4.4	2.5		09/23/19 11:37	96-12-8	
1,2-Dibromoethane (EDB)	<2.1	ug/L	6.9	2.1	2.5		09/23/19 11:37	106-93-4	
1,2-Dichlorobenzene	<1.8	ug/L	5.9	1.8	2.5		09/23/19 11:37	95-50-1	
1,2-Dichloroethane	<0.70	ug/L	2.5	0.70	2.5		09/23/19 11:37	107-06-2	
1,2-Dichloropropane	<0.71	ug/L	2.5	0.71	2.5		09/23/19 11:37	78-87-5	
1,3,5-Trimethylbenzene	<2.2	ug/L	7.3	2.2	2.5		09/23/19 11:37	108-67-8	
1,3-Dichlorobenzene	<1.6	ug/L	5.2	1.6	2.5		09/23/19 11:37	541-73-1	
1,3-Dichloropropane	<2.1	ug/L	6.9	2.1	2.5		09/23/19 11:37	142-28-9	
1,4-Dichlorobenzene	<2.4	ug/L	7.9	2.4	2.5		09/23/19 11:37	106-46-7	
2,2-Dichloropropane	<5.7	ug/L	18.9	5.7	2.5		09/23/19 11:37	594-20-7	
2-Chlorotoluene	<2.3	ug/L	12.5	2.3	2.5		09/23/19 11:37	95-49-8	
4-Chlorotoluene	<1.9	ug/L	6.3	1.9	2.5		09/23/19 11:37	106-43-4	
Benzene	<0.62	ug/L	2.5	0.62	2.5		09/23/19 11:37	71-43-2	
Bromobenzene	<0.60	ug/L	2.5	0.60	2.5		09/23/19 11:37	108-86-1	
Bromochloromethane	<0.91	ug/L	12.5	0.91	2.5		09/23/19 11:37	74-97-5	
Bromodichloromethane	<0.91	ug/L	3.0	0.91	2.5		09/23/19 11:37	75-27-4	
Bromoform	<9.9	ug/L	33.1	9.9	2.5		09/23/19 11:37	75-25-2	
Bromomethane	<2.4	ug/L	12.5	2.4	2.5		09/23/19 11:37	74-83-9	
Carbon tetrachloride	<0.41	ug/L	2.5	0.41	2.5		09/23/19 11:37	56-23-5	
Chlorobenzene	<1.8	ug/L	5.9	1.8	2.5		09/23/19 11:37	108-90-7	
Chloroethane	<3.4	ug/L	12.5	3.4	2.5		09/23/19 11:37	75-00-3	
Chloroform	<3.2	ug/L	12.5	3.2	2.5		09/23/19 11:37	67-66-3	
Chloromethane	<5.5	ug/L	18.2	5.5	2.5		09/23/19 11:37	74-87-3	
Dibromochloromethane	<6.5	ug/L	21.7	6.5	2.5		09/23/19 11:37	124-48-1	
Dibromomethane	<2.3	ug/L	7.8	2.3	2.5		09/23/19 11:37	74-95-3	
Dichlorodifluoromethane	<1.2	ug/L	12.5	1.2	2.5		09/23/19 11:37	75-71-8	
Diisopropyl ether	<4.7	ug/L	15.7	4.7	2.5		09/23/19 11:37	108-20-3	
Ethylbenzene	<0.55	ug/L	2.5	0.55	2.5		09/23/19 11:37	100-41-4	
Hexachloro-1,3-butadiene	<3.0	ug/L	12.5	3.0	2.5		09/23/19 11:37	87-68-3	
Isopropylbenzene (Cumene)	<0.98	ug/L	12.5	0.98	2.5		09/23/19 11:37	98-82-8	
Methyl-tert-butyl ether	<3.1	ug/L	10.4	3.1	2.5		09/23/19 11:37	1634-04-4	
Methylene Chloride	<1.5	ug/L	12.5	1.5	2.5		09/23/19 11:37	75-09-2	
Naphthalene	<2.9	ug/L	12.5	2.9	2.5		09/23/19 11:37	91-20-3	
Styrene	<1.2	ug/L	3.9	1.2	2.5		09/23/19 11:37	100-42-5	
Tetrachloroethene	4.3	ug/L	2.7	0.82	2.5		09/23/19 11:37	127-18-4	
Toluene	<0.43	ug/L	12.5	0.43	2.5		09/23/19 11:37	108-88-3	
Trichloroethene	322	ug/L	2.5	0.64	2.5		09/23/19 11:37	79-01-6	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40195477

Sample: MW-4 Lab ID: 40195477003 Collected: 09/18/19 12:32 Received: 09/19/19 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Trichlorofluoromethane	<0.54	ug/L	2.5	0.54	2.5		09/23/19 11:37	75-69-4	
Vinyl chloride	0.50J	ug/L	2.5	0.44	2.5		09/23/19 11:37	75-01-4	
cis-1,2-Dichloroethene	16.6	ug/L	2.5	0.68	2.5		09/23/19 11:37	156-59-2	
cis-1,3-Dichloropropene	<9.1	ug/L	30.2	9.1	2.5		09/23/19 11:37	10061-01-5	
m&p-Xylene	<1.2	ug/L	5.0	1.2	2.5		09/23/19 11:37	179601-23-1	
n-Butylbenzene	<1.8	ug/L	5.9	1.8	2.5		09/23/19 11:37	104-51-8	
n-Propylbenzene	<2.0	ug/L	12.5	2.0	2.5		09/23/19 11:37	103-65-1	
o-Xylene	<0.65	ug/L	2.5	0.65	2.5		09/23/19 11:37	95-47-6	
p-Isopropyltoluene	<2.0	ug/L	6.7	2.0	2.5		09/23/19 11:37	99-87-6	
sec-Butylbenzene	<2.1	ug/L	12.5	2.1	2.5		09/23/19 11:37	135-98-8	
tert-Butylbenzene	<0.76	ug/L	2.5	0.76	2.5		09/23/19 11:37	98-06-6	
trans-1,2-Dichloroethene	<2.7	ug/L	9.1	2.7	2.5		09/23/19 11:37	156-60-5	
trans-1,3-Dichloropropene	<10.9	ug/L	36.4	10.9	2.5		09/23/19 11:37	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		2.5		09/23/19 11:37	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		2.5		09/23/19 11:37	1868-53-7	
Toluene-d8 (S)	99	%	70-130		2.5		09/23/19 11:37	2037-26-5	
300.0 IC Anions Analytical Method: EPA 300.0									
Sulfate	92.3	mg/L	15.0	5.0	5		09/25/19 13:47	14808-79-8	
5310C TOC Analytical Method: SM 5310C									
Total Organic Carbon	2.0	mg/L	1.7	0.50	2		09/24/19 19:42	7440-44-0	

Sample: MW-18R Lab ID: 40195477004 Collected: 09/18/19 09:41 Received: 09/19/19 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Ethane	<1.2	ug/L	5.6	1.2	1		09/24/19 10:02	74-84-0	
Ethene	1.3J	ug/L	5.0	1.2	1		09/24/19 10:02	74-85-1	
Methane	246	ug/L	2.8	0.66	1		09/24/19 10:02	74-82-8	
6010 MET ICP, Dissolved Analytical Method: EPA 6010									
Iron, Dissolved	<35.4	ug/L	118	35.4	1		09/21/19 13:57	7439-89-6	
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		09/20/19 14:25	630-20-6	
1,1,1-Trichloroethane	4.0	ug/L	1.0	0.24	1		09/20/19 14:25	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		09/20/19 14:25	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		09/20/19 14:25	79-00-5	
1,1-Dichloroethane	7.2	ug/L	1.0	0.27	1		09/20/19 14:25	75-34-3	
1,1-Dichloroethene	5.9	ug/L	1.0	0.24	1		09/20/19 14:25	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		09/20/19 14:25	563-58-6	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40195477

Sample: MW-18R **Lab ID: 40195477004** Collected: 09/18/19 09:41 Received: 09/19/19 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		09/20/19 14:25	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		09/20/19 14:25	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		09/20/19 14:25	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		09/20/19 14:25	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		09/20/19 14:25	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		09/20/19 14:25	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		09/20/19 14:25	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		09/20/19 14:25	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		09/20/19 14:25	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		09/20/19 14:25	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		09/20/19 14:25	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		09/20/19 14:25	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		09/20/19 14:25	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		09/20/19 14:25	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		09/20/19 14:25	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		09/20/19 14:25	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		09/20/19 14:25	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		09/20/19 14:25	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		09/20/19 14:25	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		09/20/19 14:25	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		09/20/19 14:25	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		09/20/19 14:25	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		09/20/19 14:25	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		09/20/19 14:25	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		09/20/19 14:25	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		09/20/19 14:25	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		09/20/19 14:25	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		09/20/19 14:25	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		09/20/19 14:25	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		09/20/19 14:25	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		09/20/19 14:25	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		09/20/19 14:25	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		09/20/19 14:25	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		09/20/19 14:25	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		09/20/19 14:25	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		09/20/19 14:25	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		09/20/19 14:25	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		09/20/19 14:25	100-42-5	
Tetrachloroethene	0.85J	ug/L	1.1	0.33	1		09/20/19 14:25	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		09/20/19 14:25	108-88-3	
Trichloroethene	1570	ug/L	25.0	6.4	25		09/23/19 12:16	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		09/20/19 14:25	75-69-4	
Vinyl chloride	26.0	ug/L	1.0	0.17	1		09/20/19 14:25	75-01-4	
cis-1,2-Dichloroethene	738	ug/L	25.0	6.8	25		09/23/19 12:16	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		09/20/19 14:25	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		09/20/19 14:25	179601-23-1	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40195477

Sample: MW-18R **Lab ID: 40195477004** Collected: 09/18/19 09:41 Received: 09/19/19 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		09/20/19 14:25	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		09/20/19 14:25	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		09/20/19 14:25	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		09/20/19 14:25	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		09/20/19 14:25	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		09/20/19 14:25	98-06-6	
trans-1,2-Dichloroethene	15.6	ug/L	3.6	1.1	1		09/20/19 14:25	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		09/20/19 14:25	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		09/20/19 14:25	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		09/20/19 14:25	1868-53-7	HS
Toluene-d8 (S)	98	%	70-130		1		09/20/19 14:25	2037-26-5	
300.0 IC Anions Analytical Method: EPA 300.0									
Sulfate	107	mg/L	15.0	5.0	5		09/25/19 14:01	14808-79-8	
5310C TOC Analytical Method: SM 5310C									
Total Organic Carbon	2.2	mg/L	0.84	0.25	1		09/24/19 20:03	7440-44-0	

Sample: MW-38 **Lab ID: 40195477005** Collected: 09/18/19 10:13 Received: 09/19/19 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Ethane	<1.2	ug/L	5.6	1.2	1		09/24/19 10:09	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		09/24/19 10:09	74-85-1	
Methane	<0.66	ug/L	2.8	0.66	1		09/24/19 10:09	74-82-8	
6010 MET ICP, Dissolved Analytical Method: EPA 6010									
Iron, Dissolved	<35.4	ug/L	118	35.4	1		09/21/19 13:59	7439-89-6	
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		09/23/19 09:52	630-20-6	
1,1,1-Trichloroethane	0.33J	ug/L	1.0	0.24	1		09/23/19 09:52	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		09/23/19 09:52	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		09/23/19 09:52	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		09/23/19 09:52	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		09/23/19 09:52	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		09/23/19 09:52	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		09/23/19 09:52	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		09/23/19 09:52	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		09/23/19 09:52	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		09/23/19 09:52	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		09/23/19 09:52	96-12-8	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40195477

Sample: MW-38 **Lab ID: 40195477005** Collected: 09/18/19 10:13 Received: 09/19/19 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		09/23/19 09:52	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		09/23/19 09:52	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		09/23/19 09:52	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		09/23/19 09:52	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		09/23/19 09:52	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		09/23/19 09:52	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		09/23/19 09:52	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		09/23/19 09:52	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		09/23/19 09:52	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		09/23/19 09:52	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		09/23/19 09:52	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		09/23/19 09:52	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		09/23/19 09:52	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		09/23/19 09:52	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		09/23/19 09:52	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		09/23/19 09:52	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		09/23/19 09:52	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		09/23/19 09:52	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		09/23/19 09:52	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		09/23/19 09:52	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		09/23/19 09:52	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		09/23/19 09:52	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		09/23/19 09:52	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		09/23/19 09:52	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		09/23/19 09:52	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		09/23/19 09:52	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		09/23/19 09:52	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		09/23/19 09:52	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		09/23/19 09:52	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		09/23/19 09:52	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		09/23/19 09:52	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		09/23/19 09:52	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		09/23/19 09:52	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		09/23/19 09:52	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		09/23/19 09:52	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		09/23/19 09:52	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		09/23/19 09:52	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		09/23/19 09:52	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		09/23/19 09:52	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		09/23/19 09:52	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		09/23/19 09:52	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		09/23/19 09:52	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		09/23/19 09:52	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		09/23/19 09:52	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		09/23/19 09:52	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		09/23/19 09:52	135-98-8	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40195477

Sample: MW-38 **Lab ID: 40195477005** Collected: 09/18/19 10:13 Received: 09/19/19 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		09/23/19 09:52	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		09/23/19 09:52	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		09/23/19 09:52	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		09/23/19 09:52	460-00-4	
Dibromofluoromethane (S)	96	%	70-130		1		09/23/19 09:52	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		09/23/19 09:52	2037-26-5	
300.0 IC Anions Analytical Method: EPA 300.0									
Sulfate	88.7	mg/L	15.0	5.0	5		09/25/19 14:16	14808-79-8	
5310C TOC Analytical Method: SM 5310C									
Total Organic Carbon	1.3	mg/L	0.84	0.25	1		09/24/19 20:23	7440-44-0	

Sample: MW-41 **Lab ID: 40195477006** Collected: 09/18/19 12:06 Received: 09/19/19 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Ethane	<1.2	ug/L	5.6	1.2	1		09/24/19 10:16	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		09/24/19 10:16	74-85-1	
Methane	<0.66	ug/L	2.8	0.66	1		09/24/19 10:16	74-82-8	
6010 MET ICP, Dissolved Analytical Method: EPA 6010									
Iron, Dissolved	<35.4	ug/L	118	35.4	1		09/21/19 14:07	7439-89-6	
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		09/20/19 15:04	630-20-6	
1,1,1-Trichloroethane	2.9	ug/L	1.0	0.24	1		09/20/19 15:04	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		09/20/19 15:04	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		09/20/19 15:04	79-00-5	
1,1-Dichloroethane	0.88J	ug/L	1.0	0.27	1		09/20/19 15:04	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		09/20/19 15:04	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		09/20/19 15:04	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		09/20/19 15:04	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		09/20/19 15:04	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		09/20/19 15:04	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		09/20/19 15:04	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		09/20/19 15:04	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		09/20/19 15:04	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		09/20/19 15:04	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		09/20/19 15:04	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		09/20/19 15:04	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		09/20/19 15:04	108-67-8	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40195477

Sample: MW-41 Lab ID: 40195477006 Collected: 09/18/19 12:06 Received: 09/19/19 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		09/20/19 15:04	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		09/20/19 15:04	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		09/20/19 15:04	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		09/20/19 15:04	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		09/20/19 15:04	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		09/20/19 15:04	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		09/20/19 15:04	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		09/20/19 15:04	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		09/20/19 15:04	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		09/20/19 15:04	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		09/20/19 15:04	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		09/20/19 15:04	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		09/20/19 15:04	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		09/20/19 15:04	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		09/20/19 15:04	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		09/20/19 15:04	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		09/20/19 15:04	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		09/20/19 15:04	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		09/20/19 15:04	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		09/20/19 15:04	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		09/20/19 15:04	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		09/20/19 15:04	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		09/20/19 15:04	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		09/20/19 15:04	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		09/20/19 15:04	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		09/20/19 15:04	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		09/20/19 15:04	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		09/20/19 15:04	100-42-5	
Tetrachloroethene	1.9	ug/L	1.1	0.33	1		09/20/19 15:04	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		09/20/19 15:04	108-88-3	
Trichloroethene	1450	ug/L	40.0	10.2	40		09/23/19 12:48	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		09/20/19 15:04	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		09/20/19 15:04	75-01-4	
cis-1,2-Dichloroethene	1.1	ug/L	1.0	0.27	1		09/20/19 15:04	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		09/20/19 15:04	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		09/20/19 15:04	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		09/20/19 15:04	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		09/20/19 15:04	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		09/20/19 15:04	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		09/20/19 15:04	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		09/20/19 15:04	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		09/20/19 15:04	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		09/20/19 15:04	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		09/20/19 15:04	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		09/20/19 15:04	460-00-4	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40195477

Sample: MW-41 **Lab ID: 40195477006** Collected: 09/18/19 12:06 Received: 09/19/19 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
<i>Surrogates</i>									
Dibromofluoromethane (S)	105	%	70-130		1		09/20/19 15:04	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		09/20/19 15:04	2037-26-5	
300.0 IC Anions Analytical Method: EPA 300.0									
Sulfate	63.5	mg/L	15.0	5.0	5		09/25/19 14:30	14808-79-8	
5310C TOC Analytical Method: SM 5310C									
Total Organic Carbon	1.6	mg/L	0.84	0.25	1		09/24/19 20:44	7440-44-0	

Sample: MW-42 **Lab ID: 40195477007** Collected: 09/18/19 11:38 Received: 09/19/19 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Ethane	<1.2	ug/L	5.6	1.2	1		09/24/19 10:23	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		09/24/19 10:23	74-85-1	
Methane	<0.66	ug/L	2.8	0.66	1		09/24/19 10:23	74-82-8	
6010 MET ICP, Dissolved Analytical Method: EPA 6010									
Iron, Dissolved	54.0J	ug/L	118	35.4	1		09/21/19 14:09	7439-89-6	
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		09/20/19 15:24	630-20-6	
1,1,1-Trichloroethane	12.8	ug/L	1.0	0.24	1		09/20/19 15:24	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		09/20/19 15:24	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		09/20/19 15:24	79-00-5	
1,1-Dichloroethane	2.1	ug/L	1.0	0.27	1		09/20/19 15:24	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		09/20/19 15:24	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		09/20/19 15:24	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		09/20/19 15:24	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		09/20/19 15:24	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		09/20/19 15:24	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		09/20/19 15:24	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		09/20/19 15:24	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		09/20/19 15:24	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		09/20/19 15:24	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		09/20/19 15:24	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		09/20/19 15:24	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		09/20/19 15:24	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		09/20/19 15:24	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		09/20/19 15:24	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		09/20/19 15:24	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		09/20/19 15:24	594-20-7	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40195477

Sample: MW-42 **Lab ID: 40195477007** Collected: 09/18/19 11:38 Received: 09/19/19 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		09/20/19 15:24	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		09/20/19 15:24	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		09/20/19 15:24	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		09/20/19 15:24	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		09/20/19 15:24	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		09/20/19 15:24	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		09/20/19 15:24	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		09/20/19 15:24	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		09/20/19 15:24	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		09/20/19 15:24	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		09/20/19 15:24	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		09/20/19 15:24	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		09/20/19 15:24	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		09/20/19 15:24	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		09/20/19 15:24	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		09/20/19 15:24	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		09/20/19 15:24	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		09/20/19 15:24	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		09/20/19 15:24	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		09/20/19 15:24	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		09/20/19 15:24	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		09/20/19 15:24	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		09/20/19 15:24	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		09/20/19 15:24	100-42-5	
Tetrachloroethene	6.8	ug/L	1.1	0.33	1		09/20/19 15:24	127-18-4	
Toluene	0.50J	ug/L	5.0	0.17	1		09/20/19 15:24	108-88-3	
Trichloroethene	14200	ug/L	250	63.8	250		09/23/19 13:07	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		09/20/19 15:24	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		09/20/19 15:24	75-01-4	
cis-1,2-Dichloroethene	3.0	ug/L	1.0	0.27	1		09/20/19 15:24	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		09/20/19 15:24	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		09/20/19 15:24	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		09/20/19 15:24	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		09/20/19 15:24	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		09/20/19 15:24	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		09/20/19 15:24	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		09/20/19 15:24	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		09/20/19 15:24	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		09/20/19 15:24	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		09/20/19 15:24	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		09/20/19 15:24	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		09/20/19 15:24	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		09/20/19 15:24	2037-26-5	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40195477

Sample: MW-42 Lab ID: 40195477007 Collected: 09/18/19 11:38 Received: 09/19/19 08:50 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions Analytical Method: EPA 300.0									
Sulfate	146	mg/L	15.0	5.0	5		09/25/19 14:45	14808-79-8	
5310C TOC Analytical Method: SM 5310C									
Total Organic Carbon	2.2	mg/L	1.7	0.50	2		09/24/19 21:26	7440-44-0	

Sample: OP-14 Lab ID: 40195477008 Collected: 09/18/19 13:02 Received: 09/19/19 08:50 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Ethane	<1.2	ug/L	5.6	1.2	1		09/24/19 10:30	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		09/24/19 10:30	74-85-1	
Methane	<0.66	ug/L	2.8	0.66	1		09/24/19 10:30	74-82-8	
6010 MET ICP, Dissolved Analytical Method: EPA 6010									
Iron, Dissolved	<35.4	ug/L	118	35.4	1		09/21/19 14:12	7439-89-6	
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.67	ug/L	2.5	0.67	2.5		09/23/19 15:04	630-20-6	
1,1,1-Trichloroethane	2.8	ug/L	2.5	0.61	2.5		09/23/19 15:04	71-55-6	
1,1,2,2-Tetrachloroethane	<0.69	ug/L	2.5	0.69	2.5		09/23/19 15:04	79-34-5	
1,1,2-Trichloroethane	<1.4	ug/L	12.5	1.4	2.5		09/23/19 15:04	79-00-5	
1,1-Dichloroethane	<0.68	ug/L	2.5	0.68	2.5		09/23/19 15:04	75-34-3	
1,1-Dichloroethene	<0.61	ug/L	2.5	0.61	2.5		09/23/19 15:04	75-35-4	
1,1-Dichloropropene	<1.4	ug/L	4.5	1.4	2.5		09/23/19 15:04	563-58-6	
1,2,3-Trichlorobenzene	<1.6	ug/L	12.5	1.6	2.5		09/23/19 15:04	87-61-6	
1,2,3-Trichloropropane	<1.5	ug/L	12.5	1.5	2.5		09/23/19 15:04	96-18-4	
1,2,4-Trichlorobenzene	<2.4	ug/L	12.5	2.4	2.5		09/23/19 15:04	120-82-1	
1,2,4-Trimethylbenzene	<2.1	ug/L	7.0	2.1	2.5		09/23/19 15:04	95-63-6	
1,2-Dibromo-3-chloropropane	<4.4	ug/L	14.7	4.4	2.5		09/23/19 15:04	96-12-8	
1,2-Dibromoethane (EDB)	<2.1	ug/L	6.9	2.1	2.5		09/23/19 15:04	106-93-4	
1,2-Dichlorobenzene	<1.8	ug/L	5.9	1.8	2.5		09/23/19 15:04	95-50-1	
1,2-Dichloroethane	<0.70	ug/L	2.5	0.70	2.5		09/23/19 15:04	107-06-2	
1,2-Dichloropropane	<0.71	ug/L	2.5	0.71	2.5		09/23/19 15:04	78-87-5	
1,3,5-Trimethylbenzene	<2.2	ug/L	7.3	2.2	2.5		09/23/19 15:04	108-67-8	
1,3-Dichlorobenzene	<1.6	ug/L	5.2	1.6	2.5		09/23/19 15:04	541-73-1	
1,3-Dichloropropane	<2.1	ug/L	6.9	2.1	2.5		09/23/19 15:04	142-28-9	
1,4-Dichlorobenzene	<2.4	ug/L	7.9	2.4	2.5		09/23/19 15:04	106-46-7	
2,2-Dichloropropane	<5.7	ug/L	18.9	5.7	2.5		09/23/19 15:04	594-20-7	
2-Chlorotoluene	<2.3	ug/L	12.5	2.3	2.5		09/23/19 15:04	95-49-8	
4-Chlorotoluene	<1.9	ug/L	6.3	1.9	2.5		09/23/19 15:04	106-43-4	
Benzene	<0.62	ug/L	2.5	0.62	2.5		09/23/19 15:04	71-43-2	
Bromobenzene	<0.60	ug/L	2.5	0.60	2.5		09/23/19 15:04	108-86-1	
Bromochloromethane	<0.91	ug/L	12.5	0.91	2.5		09/23/19 15:04	74-97-5	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40195477

Sample: OP-14 **Lab ID: 40195477008** Collected: 09/18/19 13:02 Received: 09/19/19 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Bromodichloromethane	<0.91	ug/L	3.0	0.91	2.5		09/23/19 15:04	75-27-4	
Bromoform	<9.9	ug/L	33.1	9.9	2.5		09/23/19 15:04	75-25-2	
Bromomethane	<2.4	ug/L	12.5	2.4	2.5		09/23/19 15:04	74-83-9	
Carbon tetrachloride	<0.41	ug/L	2.5	0.41	2.5		09/23/19 15:04	56-23-5	
Chlorobenzene	<1.8	ug/L	5.9	1.8	2.5		09/23/19 15:04	108-90-7	
Chloroethane	<3.4	ug/L	12.5	3.4	2.5		09/23/19 15:04	75-00-3	
Chloroform	<3.2	ug/L	12.5	3.2	2.5		09/23/19 15:04	67-66-3	
Chloromethane	<5.5	ug/L	18.2	5.5	2.5		09/23/19 15:04	74-87-3	
Dibromochloromethane	<6.5	ug/L	21.7	6.5	2.5		09/23/19 15:04	124-48-1	
Dibromomethane	<2.3	ug/L	7.8	2.3	2.5		09/23/19 15:04	74-95-3	
Dichlorodifluoromethane	<1.2	ug/L	12.5	1.2	2.5		09/23/19 15:04	75-71-8	
Diisopropyl ether	<4.7	ug/L	15.7	4.7	2.5		09/23/19 15:04	108-20-3	
Ethylbenzene	<0.55	ug/L	2.5	0.55	2.5		09/23/19 15:04	100-41-4	
Hexachloro-1,3-butadiene	<3.0	ug/L	12.5	3.0	2.5		09/23/19 15:04	87-68-3	
Isopropylbenzene (Cumene)	<0.98	ug/L	12.5	0.98	2.5		09/23/19 15:04	98-82-8	
Methyl-tert-butyl ether	<3.1	ug/L	10.4	3.1	2.5		09/23/19 15:04	1634-04-4	
Methylene Chloride	<1.5	ug/L	12.5	1.5	2.5		09/23/19 15:04	75-09-2	
Naphthalene	<2.9	ug/L	12.5	2.9	2.5		09/23/19 15:04	91-20-3	
Styrene	<1.2	ug/L	3.9	1.2	2.5		09/23/19 15:04	100-42-5	
Tetrachloroethene	10.7	ug/L	2.7	0.82	2.5		09/23/19 15:04	127-18-4	
Toluene	<0.43	ug/L	12.5	0.43	2.5		09/23/19 15:04	108-88-3	
Trichloroethene	341	ug/L	2.5	0.64	2.5		09/23/19 15:04	79-01-6	
Trichlorofluoromethane	<0.54	ug/L	2.5	0.54	2.5		09/23/19 15:04	75-69-4	
Vinyl chloride	<0.44	ug/L	2.5	0.44	2.5		09/23/19 15:04	75-01-4	
cis-1,2-Dichloroethene	8.5	ug/L	2.5	0.68	2.5		09/23/19 15:04	156-59-2	
cis-1,3-Dichloropropene	<9.1	ug/L	30.2	9.1	2.5		09/23/19 15:04	10061-01-5	
m&p-Xylene	<1.2	ug/L	5.0	1.2	2.5		09/23/19 15:04	179601-23-1	
n-Butylbenzene	<1.8	ug/L	5.9	1.8	2.5		09/23/19 15:04	104-51-8	
n-Propylbenzene	<2.0	ug/L	12.5	2.0	2.5		09/23/19 15:04	103-65-1	
o-Xylene	<0.65	ug/L	2.5	0.65	2.5		09/23/19 15:04	95-47-6	
p-Isopropyltoluene	<2.0	ug/L	6.7	2.0	2.5		09/23/19 15:04	99-87-6	
sec-Butylbenzene	<2.1	ug/L	12.5	2.1	2.5		09/23/19 15:04	135-98-8	
tert-Butylbenzene	<0.76	ug/L	2.5	0.76	2.5		09/23/19 15:04	98-06-6	
trans-1,2-Dichloroethene	<2.7	ug/L	9.1	2.7	2.5		09/23/19 15:04	156-60-5	
trans-1,3-Dichloropropene	<10.9	ug/L	36.4	10.9	2.5		09/23/19 15:04	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		2.5		09/23/19 15:04	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		2.5		09/23/19 15:04	1868-53-7	
Toluene-d8 (S)	103	%	70-130		2.5		09/23/19 15:04	2037-26-5	
300.0 IC Anions Analytical Method: EPA 300.0									
Sulfate	54.8	mg/L	3.0	1.0	1		09/24/19 15:35	14808-79-8	
5310C TOC Analytical Method: SM 5310C									
Total Organic Carbon	2.4	mg/L	1.7	0.50	2		09/24/19 21:47	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40195477

Sample: TRIP **Lab ID: 40195477009** Collected: 09/18/19 00:00 Received: 09/19/19 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		09/20/19 13:06	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		09/20/19 13:06	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		09/20/19 13:06	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		09/20/19 13:06	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		09/20/19 13:06	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		09/20/19 13:06	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		09/20/19 13:06	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		09/20/19 13:06	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		09/20/19 13:06	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		09/20/19 13:06	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		09/20/19 13:06	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		09/20/19 13:06	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		09/20/19 13:06	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		09/20/19 13:06	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		09/20/19 13:06	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		09/20/19 13:06	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		09/20/19 13:06	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		09/20/19 13:06	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		09/20/19 13:06	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		09/20/19 13:06	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		09/20/19 13:06	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		09/20/19 13:06	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		09/20/19 13:06	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		09/20/19 13:06	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		09/20/19 13:06	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		09/20/19 13:06	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		09/20/19 13:06	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		09/20/19 13:06	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		09/20/19 13:06	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		09/20/19 13:06	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		09/20/19 13:06	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		09/20/19 13:06	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		09/20/19 13:06	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		09/20/19 13:06	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		09/20/19 13:06	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		09/20/19 13:06	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		09/20/19 13:06	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		09/20/19 13:06	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		09/20/19 13:06	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		09/20/19 13:06	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		09/20/19 13:06	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		09/20/19 13:06	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		09/20/19 13:06	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		09/20/19 13:06	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		09/20/19 13:06	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		09/20/19 13:06	127-18-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40195477

Sample: TRIP **Lab ID: 40195477009** Collected: 09/18/19 00:00 Received: 09/19/19 08:50 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
Toluene	<0.17	ug/L	5.0	0.17	1		09/20/19 13:06	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		09/20/19 13:06	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		09/20/19 13:06	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		09/20/19 13:06	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		09/20/19 13:06	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		09/20/19 13:06	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		09/20/19 13:06	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		09/20/19 13:06	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		09/20/19 13:06	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		09/20/19 13:06	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		09/20/19 13:06	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		09/20/19 13:06	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		09/20/19 13:06	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		09/20/19 13:06	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		09/20/19 13:06	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		09/20/19 13:06	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		09/20/19 13:06	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		09/20/19 13:06	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40195477

QC Batch: 334998 Analysis Method: EPA 8015B Modified
QC Batch Method: EPA 8015B Modified Analysis Description: Methane, Ethane, Ethene GCV
Associated Lab Samples: 40195477001, 40195477002, 40195477003, 40195477004, 40195477005, 40195477006, 40195477007, 40195477008

METHOD BLANK: 1945206 Matrix: Water
Associated Lab Samples: 40195477001, 40195477002, 40195477003, 40195477004, 40195477005, 40195477006, 40195477007, 40195477008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	<1.2	5.6	09/24/19 09:01	
Ethene	ug/L	<1.2	5.0	09/24/19 09:01	
Methane	ug/L	<0.66	2.8	09/24/19 09:01	

LABORATORY CONTROL SAMPLE & LCSD: 1945207 1945208

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	53.6	52.4	52.4	98	98	80-120	0	20	
Ethene	ug/L	50	48.5	48.5	97	97	80-120	0	20	
Methane	ug/L	28.6	27.9	28.1	98	98	80-120	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1945209 1945210

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40195631027 Result	Spike Conc.	Spike Conc.	MS Result						
Ethane	ug/L	<1.2	2680	2680	2620	2720	98	101	80-120	4	20
Ethene	ug/L	1.2J	2500	2500	2400	2490	96	100	80-120	4	20
Methane	ug/L	8420	1430	1430	11700	11400	232	206	77-122	3	20 M1

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40195477

QC Batch:	334758	Analysis Method:	EPA 6010
QC Batch Method:	EPA 6010	Analysis Description:	ICP Metals, Trace, Dissolved
Associated Lab Samples:	40195477001, 40195477002, 40195477003, 40195477004, 40195477005, 40195477006, 40195477007, 40195477008		

METHOD BLANK:	1944187	Matrix:	Water
Associated Lab Samples:	40195477001, 40195477002, 40195477003, 40195477004, 40195477005, 40195477006, 40195477007, 40195477008		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Dissolved	ug/L	<35.4	118	09/21/19 13:18	

LABORATORY CONTROL SAMPLE: 1944188

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	ug/L	5000	4780	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1944189 1944191

Parameter	Units	40195154004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron, Dissolved	ug/L	<35.4	5000	5000	4870	4880	97	98	75-125	0	20	

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40195477

QC Batch: 334688 Analysis Method: EPA 8260
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
 Associated Lab Samples: 40195477001, 40195477002, 40195477003, 40195477004, 40195477005, 40195477006, 40195477007, 40195477008, 40195477009

METHOD BLANK: 1943264 Matrix: Water
 Associated Lab Samples: 40195477001, 40195477002, 40195477003, 40195477004, 40195477005, 40195477006, 40195477007, 40195477008, 40195477009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	09/20/19 08:35	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	09/20/19 08:35	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	09/20/19 08:35	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	09/20/19 08:35	
1,1-Dichloroethane	ug/L	<0.27	1.0	09/20/19 08:35	
1,1-Dichloroethene	ug/L	<0.24	1.0	09/20/19 08:35	
1,1-Dichloropropene	ug/L	<0.54	1.8	09/20/19 08:35	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	09/20/19 08:35	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	09/20/19 08:35	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	09/20/19 08:35	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	09/20/19 08:35	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	09/20/19 08:35	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	09/20/19 08:35	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	09/20/19 08:35	
1,2-Dichloroethane	ug/L	<0.28	1.0	09/20/19 08:35	
1,2-Dichloropropane	ug/L	<0.28	1.0	09/20/19 08:35	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	09/20/19 08:35	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	09/20/19 08:35	
1,3-Dichloropropane	ug/L	<0.83	2.8	09/20/19 08:35	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	09/20/19 08:35	
2,2-Dichloropropane	ug/L	<2.3	7.6	09/20/19 08:35	
2-Chlorotoluene	ug/L	<0.93	5.0	09/20/19 08:35	
4-Chlorotoluene	ug/L	<0.76	2.5	09/20/19 08:35	
Benzene	ug/L	<0.25	1.0	09/20/19 08:35	
Bromobenzene	ug/L	<0.24	1.0	09/20/19 08:35	
Bromochloromethane	ug/L	<0.36	5.0	09/20/19 08:35	
Bromodichloromethane	ug/L	<0.36	1.2	09/20/19 08:35	
Bromoform	ug/L	<4.0	13.2	09/20/19 08:35	
Bromomethane	ug/L	<0.97	5.0	09/20/19 08:35	
Carbon tetrachloride	ug/L	<0.17	1.0	09/20/19 08:35	
Chlorobenzene	ug/L	<0.71	2.4	09/20/19 08:35	
Chloroethane	ug/L	<1.3	5.0	09/20/19 08:35	
Chloroform	ug/L	<1.3	5.0	09/20/19 08:35	
Chloromethane	ug/L	<2.2	7.3	09/20/19 08:35	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	09/20/19 08:35	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	09/20/19 08:35	
Dibromochloromethane	ug/L	<2.6	8.7	09/20/19 08:35	
Dibromomethane	ug/L	<0.94	3.1	09/20/19 08:35	
Dichlorodifluoromethane	ug/L	<0.50	5.0	09/20/19 08:35	
Diisopropyl ether	ug/L	<1.9	6.3	09/20/19 08:35	

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40195477

METHOD BLANK: 1943264

Matrix: Water

Associated Lab Samples: 40195477001, 40195477002, 40195477003, 40195477004, 40195477005, 40195477006, 40195477007, 40195477008, 40195477009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	<0.22	1.0	09/20/19 08:35	
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	09/20/19 08:35	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	09/20/19 08:35	
m&p-Xylene	ug/L	<0.47	2.0	09/20/19 08:35	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	09/20/19 08:35	
Methylene Chloride	ug/L	<0.58	5.0	09/20/19 08:35	
n-Butylbenzene	ug/L	<0.71	2.4	09/20/19 08:35	
n-Propylbenzene	ug/L	<0.81	5.0	09/20/19 08:35	
Naphthalene	ug/L	<1.2	5.0	09/20/19 08:35	
o-Xylene	ug/L	<0.26	1.0	09/20/19 08:35	
p-Isopropyltoluene	ug/L	<0.80	2.7	09/20/19 08:35	
sec-Butylbenzene	ug/L	<0.85	5.0	09/20/19 08:35	
Styrene	ug/L	<0.47	1.6	09/20/19 08:35	
tert-Butylbenzene	ug/L	<0.30	1.0	09/20/19 08:35	
Tetrachloroethene	ug/L	<0.33	1.1	09/20/19 08:35	
Toluene	ug/L	<0.17	5.0	09/20/19 08:35	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	09/20/19 08:35	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	09/20/19 08:35	
Trichloroethene	ug/L	<0.26	1.0	09/20/19 08:35	
Trichlorofluoromethane	ug/L	<0.21	1.0	09/20/19 08:35	
Vinyl chloride	ug/L	<0.17	1.0	09/20/19 08:35	
4-Bromofluorobenzene (S)	%	96	70-130	09/20/19 08:35	
Dibromofluoromethane (S)	%	103	70-130	09/20/19 08:35	
Toluene-d8 (S)	%	101	70-130	09/20/19 08:35	

LABORATORY CONTROL SAMPLE: 1943265

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	53.2	106	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	54.8	110	70-130	
1,1,2-Trichloroethane	ug/L	50	53.5	107	70-130	
1,1-Dichloroethane	ug/L	50	64.6	129	73-150	
1,1-Dichloroethene	ug/L	50	56.7	113	73-138	
1,2,4-Trichlorobenzene	ug/L	50	53.1	106	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	48.5	97	64-129	
1,2-Dibromoethane (EDB)	ug/L	50	52.6	105	70-130	
1,2-Dichlorobenzene	ug/L	50	51.8	104	70-130	
1,2-Dichloroethane	ug/L	50	59.0	118	75-140	
1,2-Dichloropropane	ug/L	50	55.9	112	73-135	
1,3-Dichlorobenzene	ug/L	50	53.4	107	70-130	
1,4-Dichlorobenzene	ug/L	50	52.1	104	70-130	
Benzene	ug/L	50	60.0	120	70-130	
Bromodichloromethane	ug/L	50	51.2	102	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40195477

LABORATORY CONTROL SAMPLE: 1943265

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	50	42.4	85	68-129	
Bromomethane	ug/L	50	36.8	74	18-159	
Carbon tetrachloride	ug/L	50	55.0	110	70-130	
Chlorobenzene	ug/L	50	54.4	109	70-130	
Chloroethane	ug/L	50	48.1	96	53-147	
Chloroform	ug/L	50	56.9	114	74-136	
Chloromethane	ug/L	50	39.7	79	29-115	
cis-1,2-Dichloroethene	ug/L	50	54.9	110	70-130	
cis-1,3-Dichloropropene	ug/L	50	43.9	88	70-130	
Dibromochloromethane	ug/L	50	45.7	91	70-130	
Dichlorodifluoromethane	ug/L	50	32.6	65	10-130	
Ethylbenzene	ug/L	50	55.1	110	80-124	
Isopropylbenzene (Cumene)	ug/L	50	56.6	113	70-130	
m&p-Xylene	ug/L	100	110	110	70-130	
Methyl-tert-butyl ether	ug/L	50	52.0	104	54-137	
Methylene Chloride	ug/L	50	62.8	126	73-138	
o-Xylene	ug/L	50	55.2	110	70-130	
Styrene	ug/L	50	51.0	102	70-130	
Tetrachloroethene	ug/L	50	55.2	110	70-130	
Toluene	ug/L	50	55.2	110	80-126	
trans-1,2-Dichloroethene	ug/L	50	62.0	124	73-145	
trans-1,3-Dichloropropene	ug/L	50	44.7	89	70-130	
Trichloroethene	ug/L	50	56.4	113	70-130	
Trichlorofluoromethane	ug/L	50	49.7	99	76-147	
Vinyl chloride	ug/L	50	45.2	90	51-120	
4-Bromofluorobenzene (S)	%			104	70-130	
Dibromofluoromethane (S)	%			106	70-130	
Toluene-d8 (S)	%			102	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1943285 1943286

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40195310001 Result	Spike Conc.	Spike Conc.	Conc.								
1,1,1-Trichloroethane	ug/L	10.7	50	50	65.0	68.7	109	116	70-130	6	20		
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	57.3	57.6	115	115	70-130	0	20		
1,1,2-Trichloroethane	ug/L	<0.55	50	50	56.3	56.3	112	112	70-137	0	20		
1,1-Dichloroethane	ug/L	23.1	50	50	86.6	88.3	127	130	73-153	2	20		
1,1-Dichloroethene	ug/L	2.6	50	50	58.4	60.5	112	116	73-138	4	20		
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	54.6	55.9	108	110	70-130	2	20		
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	53.1	52.5	106	105	58-129	1	20		
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	55.9	55.7	112	111	70-130	0	20		
1,2-Dichlorobenzene	ug/L	<0.71	50	50	54.7	55.4	108	110	70-130	1	20		
1,2-Dichloroethane	ug/L	<0.28	50	50	59.2	59.7	118	119	75-140	1	20		
1,2-Dichloropropane	ug/L	<0.28	50	50	57.2	57.9	114	116	71-138	1	20		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40195477

Parameter	Units	1943285		1943286		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40195310001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
1,3-Dichlorobenzene	ug/L	<0.63	50	50	53.8	56.1	107	111	70-130	4	20		
1,4-Dichlorobenzene	ug/L	<0.94	50	50	53.7	55.5	106	110	70-130	3	20		
Benzene	ug/L	<0.25	50	50	59.1	61.2	118	122	70-130	4	20		
Bromodichloromethane	ug/L	<0.36	50	50	55.3	53.8	111	108	70-130	3	20		
Bromoform	ug/L	<4.0	50	50	44.2	44.4	88	89	68-129	0	20		
Bromomethane	ug/L	<0.97	50	50	40.3	43.2	79	85	15-170	7	20		
Carbon tetrachloride	ug/L	<0.17	50	50	54.0	57.8	108	116	70-130	7	20		
Chlorobenzene	ug/L	<0.71	50	50	57.5	57.9	115	116	70-130	1	20		
Chloroethane	ug/L	<1.3	50	50	48.2	48.1	96	96	51-148	0	20		
Chloroform	ug/L	<1.3	50	50	57.0	58.6	114	117	74-136	3	20		
Chloromethane	ug/L	9.3	50	50	45.0	47.4	71	76	23-115	5	20		
cis-1,2-Dichloroethene	ug/L	0.44J	50	50	58.2	60.2	116	119	70-131	3	20		
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	49.1	49.0	98	98	70-130	0	20		
Dibromochloromethane	ug/L	<2.6	50	50	49.5	49.8	99	100	70-130	1	20		
Dichlorodifluoromethane	ug/L	<0.50	50	50	31.5	30.8	63	62	10-132	2	20		
Ethylbenzene	ug/L	<0.22	50	50	55.2	57.2	110	114	80-125	3	20		
Isopropylbenzene (Cumene)	ug/L	<0.39	50	50	57.2	58.1	114	116	70-130	2	20		
m&p-Xylene	ug/L	<0.47	100	100	114	114	114	114	70-130	0	20		
Methyl-tert-butyl ether	ug/L	<1.2	50	50	54.0	53.5	108	107	51-145	1	20		
Methylene Chloride	ug/L	<0.58	50	50	64.5	64.7	129	129	73-140	0	20		
o-Xylene	ug/L	<0.26	50	50	56.2	57.6	112	115	70-130	2	20		
Styrene	ug/L	2.8	50	50	53.0	53.6	100	102	70-130	1	20		
Tetrachloroethene	ug/L	<0.33	50	50	56.5	56.8	113	114	70-130	1	20		
Toluene	ug/L	<0.17	50	50	56.7	56.7	113	113	80-131	0	20		
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	62.8	63.4	126	127	73-148	1	20		
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	48.2	49.4	96	99	70-130	2	20		
Trichloroethene	ug/L	1.2	50	50	58.2	58.0	114	114	70-130	0	20		
Trichlorofluoromethane	ug/L	<0.21	50	50	47.6	49.2	95	98	74-147	3	20		
Vinyl chloride	ug/L	<0.17	50	50	46.5	45.7	93	91	41-129	2	20		
4-Bromofluorobenzene (S)	%						105	105	70-130				
Dibromofluoromethane (S)	%						100	103	70-130				
Toluene-d8 (S)	%						100	101	70-130				

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40195477

QC Batch:	334614	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
Associated Lab Samples:	40195477001, 40195477002, 40195477003, 40195477004, 40195477005, 40195477006, 40195477007, 40195477008		

METHOD BLANK: 1942706 Matrix: Water
Associated Lab Samples: 40195477001, 40195477002, 40195477003, 40195477004, 40195477005, 40195477006, 40195477007, 40195477008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<1.0	3.0	09/24/19 12:13	

LABORATORY CONTROL SAMPLE: 1942707

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	21.2	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1942708 1942709

Parameter	Units	40195477001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	153	200	200	354	350	100	99	90-110	1	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1942710 1942711

Parameter	Units	40195314002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	29.1	20	20	50.8	50.8	108	108	90-110	0	15	

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40195477

QC Batch: 334784 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 40195477001, 40195477002, 40195477003, 40195477004, 40195477005, 40195477006, 40195477007, 40195477008

METHOD BLANK: 1944626 Matrix: Water
Associated Lab Samples: 40195477001, 40195477002, 40195477003, 40195477004, 40195477005, 40195477006, 40195477007, 40195477008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<0.25	0.84	09/24/19 17:36	

LABORATORY CONTROL SAMPLE: 1944627

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	2.5	2.3	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1944628 1944629

Parameter	Units	40195477001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Total Organic Carbon	mg/L	1.4	1	1	2.3	2.3	92	93	80-120	0	10	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40195477

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40195477

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40195477001	MW-1R	EPA 8015B Modified	334998		
40195477002	MW-2	EPA 8015B Modified	334998		
40195477003	MW-4	EPA 8015B Modified	334998		
40195477004	MW-18R	EPA 8015B Modified	334998		
40195477005	MW-38	EPA 8015B Modified	334998		
40195477006	MW-41	EPA 8015B Modified	334998		
40195477007	MW-42	EPA 8015B Modified	334998		
40195477008	OP-14	EPA 8015B Modified	334998		
40195477001	MW-1R	EPA 6010	334758		
40195477002	MW-2	EPA 6010	334758		
40195477003	MW-4	EPA 6010	334758		
40195477004	MW-18R	EPA 6010	334758		
40195477005	MW-38	EPA 6010	334758		
40195477006	MW-41	EPA 6010	334758		
40195477007	MW-42	EPA 6010	334758		
40195477008	OP-14	EPA 6010	334758		
40195477001	MW-1R	EPA 8260	334688		
40195477002	MW-2	EPA 8260	334688		
40195477003	MW-4	EPA 8260	334688		
40195477004	MW-18R	EPA 8260	334688		
40195477005	MW-38	EPA 8260	334688		
40195477006	MW-41	EPA 8260	334688		
40195477007	MW-42	EPA 8260	334688		
40195477008	OP-14	EPA 8260	334688		
40195477009	TRIP	EPA 8260	334688		
40195477001	MW-1R	EPA 300.0	334614		
40195477002	MW-2	EPA 300.0	334614		
40195477003	MW-4	EPA 300.0	334614		
40195477004	MW-18R	EPA 300.0	334614		
40195477005	MW-38	EPA 300.0	334614		
40195477006	MW-41	EPA 300.0	334614		
40195477007	MW-42	EPA 300.0	334614		
40195477008	OP-14	EPA 300.0	334614		
40195477001	MW-1R	SM 5310C	334784		
40195477002	MW-2	SM 5310C	334784		
40195477003	MW-4	SM 5310C	334784		
40195477004	MW-18R	SM 5310C	334784		
40195477005	MW-38	SM 5310C	334784		
40195477006	MW-41	SM 5310C	334784		
40195477007	MW-42	SM 5310C	334784		
40195477008	OP-14	SM 5310C	334784		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: **GZA GeoEnvironmental**
 Branch/Location: **Madison**
 Project Contact: **Kevin Helinger**
 Phone: **262-424-1761**
 Project Number: **20.0155935.01**
 Project Name: **Treat Tube**
 Project State: **WI**
 Sampled By (Print): **Alan Amundson**
 Sampled By (Sign): *[Signature]*
 PO #:
 Regulatory Program:
 Data Package Options (billable):
 EPA Level III On your sample (billable)
 EPA Level IV NOT needed on your sample
 Matrix Codes:
 A = Air, B = Biot, C = Charcoal, O = Oil, S = Soil, SI = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe



CHAIN OF CUSTODY

Translocation Codes:
 A=None B=HCL C=H2SO4 D=HNO3 E=D Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

FILTERED? (YES/NO)
 PRESERVATION (CODE)?

Y/N	Pick Letter	Analyses Requested
N	B	SVOCs
N	B	Dis bases (Methan, Ethyl, F-H)
N	A	Sulfate
Y	D	Dissolved Iron
N	C	Total Organic Carbon

PAGE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX
		DATE	TIME	
201	MW-1R	9/17/16	1110	GW
202	MW-R		1043	
203	MW-4		1232	
204	MW-18R		0941	
205	MW-38		1013	
206	MW-41		1206	
207	MW-42		1138	
208	00-14		1302	
209	Top		-	

Rush Turnaround Time Requested - Prelims
 (Rush TAT subject to approval/surcharge)
 Date Needed:
 Relinquished By: *[Signature]* Date/Time: 9-18-19 10:20
 Relinquished By: *[Signature]* Date/Time: 9/18/19 1500
 Relinquished By: *[Signature]* Date/Time: 9/19/19 0850
 Relinquished By: *[Signature]* Date/Time: 9/19/19 0850

Received By: *[Signature]* Date/Time: 9/18/19 10:20
 Received By: *[Signature]* Date/Time: 9/18/19 1500
 Received By: *[Signature]* Date/Time: 9/19/19 0850
 Received By: *[Signature]* Date/Time: 9/19/19 0850

UPPER MIDWEST REGION
 MN: 612-607-1700 WI: 920-469-2436

40195477

Quote #:
 Mail To Contact: **Kevin Helinger**
 Mail To Company: **GZA GeoEnvironmental**
 Mail To Address: **2000 Suncoast Drive STE 150 Madison, WI 53186**
 Invoice To Contact: **ARC@GZA.COM**
 Invoice To Company: **GZA GeoEnvironmental**
 Invoice To Address: **Same**
 Invoice To Phone: **262-424-1761**
 CLIENT COMMENTS:
 LAB COMMENTS (Lab Use Only): *[Signature]*
 Profile #

Relinquished By: *[Signature]* Date/Time: 9-18-19 10:20
 Relinquished By: *[Signature]* Date/Time: 9/18/19 1500
 Relinquished By: *[Signature]* Date/Time: 9/19/19 0850
 Relinquished By: *[Signature]* Date/Time: 9/19/19 0850
 Relinquished By: *[Signature]* Date/Time: 9/19/19 0850
 Relinquished By: *[Signature]* Date/Time: 9/19/19 0850

DPa Fall test per AA, 9/29/16

PAGE Project No. 40195477

Receipt Temp = 20.1 °C

Sample Receipt pH OK / Adjusted

Cooler Custody Seal Present / Not Present Intact / Not Intact

Client Name: CSA

CSA

Sample Preservation Receipt Form

Project # 911011021
46195477

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 100
Green Bay, WI 54302


All containers needing preservation have been checked and noted below. Yes No N/A *If yes look in headspace column

Initial when completed: [Signature]
Date/Time: [Signature]

Pace Lab #	Glass	Plastic	Vials	Jars	General	VOA Vials (>6mm) *	H2SO4 pH <2	NaOH+Zn Act pH >9	NaOH pH >12	HNO3 pH >8	pH after adjusted	Volume (ml)
001	AG1U											2.5/5/10
002	AG1H											2.5/5/10
003	AG4S											2.5/5/10
004	AG4U											2.5/5/10
005	AG5U											2.5/5/10
006	AG2S											2.5/5/10
007	BG3U											2.5/5/10
008	BP1U											2.5/5/10
009	BP2N											2.5/5/10
010	BP2Z											2.5/5/10
011	BP3U											2.5/5/10
012	BP3B											2.5/5/10
013	BP3N											2.5/5/10
014	BP3S											2.5/5/10
015	DG9A											2.5/5/10
016	DG9T											2.5/5/10
017	VG9U											2.5/5/10
018	VG9H											2.5/5/10
019	VG9M											2.5/5/10
020	VG9D											2.5/5/10

Exceptions to preservation check: VOA Coliform, DOC, TOC, TOH, O&G, WI DRO, Phenolics, Other: _____

AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3B	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN:
1 liter amber glass	1 liter amber glass HCL	125 ml amber glass H2SO4	120 ml amber glass unpres	100 ml amber glass unpres	500 ml amber glass H2SO4	250 ml clear glass unpres	1 liter plastic unpres	500 ml plastic HNO3	500 ml plastic NaOH, Znact	250 ml plastic unpres	250 ml plastic NaOH	250 ml plastic HNO3	250 ml plastic H2SO4	40 ml amber ascorbic	40 ml amber Na Thio	40 ml clear vial unpres	40 ml clear vial HCL	40 ml clear vial MeOH	40 ml clear vial DI	4 oz amber jar unpres	4 oz clear jar unpres	4 oz plastic jar unpres	120 ml plastic Na Thiosulfate	ziploc bag	

 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 25Apr2018
	Document No.: F-GB-C-031-Rev.07	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Project #: _____

Client Name: 62A
 Courier: CS Logistics Fed Ex Speedee UPS Walco
 Client Pace Other: _____

WO#: 40195477



Tracking #: _____
 Custody Seal on Cooler/Box Present: yes no Seals intact: yes no
 Custody Seal on Samples Present: yes no Seals intact: yes no
 Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used SR-NA Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun
 Cooler Temperature Uncorr: 10.2 ICorr: _____

Temp Blank Present: yes no Biological Tissue is Frozen: yes no

Person examining contents:
 Date: 9/20/19
 Initials: _____

Temp should be above freezing to 6°C.
 Biota Samples may be received at ≤ 0°C.

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time: _____
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>427</u>		

Client Notification/ Resolution: Person Contacted: _____ Date/Time: _____ If checked, see attached form for additional comments
 Comments/ Resolution: _____

Project Manager Review: QA Date: 9/20/19



APPENDIX C

SOIL BORING ABANDONMENT FORMS

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information **2. Facility / Owner Information**

County: Walworth WI Unique Well # of Removed Well: _____ Hicap #: INJ-1

Facility Name: Former Trent Tube Plant No.1

Latitude / Longitude (see instructions): 42.78116 N, -88.40440 W
 Format Code: DD, DDM
 Method Code: GPS008, SCR002, OTH001

Facility ID (FID or PWS): 265097030

¼ / ¼ SW, ¼ NW, Section: 29, Township: 4 N, Range: E, W

License/Permit/Monitoring #

Well Street Address: 2188 Church Street

Original Well Owner

Well City, Village or Town: East Troy, WI Well ZIP Code: 53120

Present Well Owner

Subdivision Name: _____ Lot #: _____

Mailing Address of Present Owner

Reason for Removal from Service: Temporary Injection Point WI Unique Well # of Replacement Well: _____

City of Present Owner: _____ State: _____ ZIP Code: _____

3. Filled & Sealed Well / Drillhole / Borehole Information

4. Pump, Liner, Screen, Casing & Sealing Material

Monitoring Well Original Construction Date (mm/dd/yyyy): 10/8/2019 to 10/14/2019
 Water Well
 Borehole / Drillhole If a Well Construction Report is available, please attach.

- Pump and piping removed? Yes No N/A
 Liner(s) removed? Yes No N/A
 Liner(s) perforated? Yes No N/A
 Screen removed? Yes No N/A
 Casing left in place? Yes No N/A

Construction Type:
 Drilled Driven (Sandpoint) Dug
 Other (specify): GeoProbe

- Was casing cut off below surface? Yes No N/A
 Did sealing material rise to surface? Yes No N/A
 Did material settle after 24 hours? Yes No N/A
 If yes, was hole retopped? Yes No N/A
 If bentonite chips were used, were they hydrated with water from a known safe source? Yes No N/A

Formation Type:
 Unconsolidated Formation Bedrock

Required Method of Placing Sealing Material:
 Conductor Pipe-Gravity Conductor Pipe-Pumped
 Screened & Poured (Bentonite Chips) Other (Explain): Gravity

Total Well Depth From Ground Surface (ft.): 20 Casing Diameter (in.): _____

Sealing Materials:
 Neat Cement Grout Concrete
 Sand-Cement (Concrete) Grout Bentonite Chips

Lower Drillhole Diameter (in.): 1.25 Casing Depth (ft.): _____

For Monitoring Wells and Monitoring Well Boreholes Only:
 Bentonite Chips Bentonite - Cement Grout
 Granular Bentonite Bentonite - Sand Slurry

Was well annular space grouted? Yes No Unknown

If yes, to what depth (feet)? _____ Depth to Water (feet): 8

5. Material Used to Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	20	0.75	

Chipped Bentonite

6. Comments

Temporary injection point- driven and removed

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)	Date Received	Noted By
On-Site Environmental		10/08/2019 to 10/14/2019		
Street or Route	Telephone Number		Comments	
P.O. Box 280	(608) 837-8992			
City	State	ZIP Code	Signature of Person Doing Work	
Sun Prairie	WI	53590	Prepared by GZA, provided field oversight	
			Date Signed	

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information **2. Facility / Owner Information**

County Walworth		WI Unique Well # of Removed Well _____		Hicap # INJ-2	
Latitude / Longitude (see instructions) 42.78116 N -88.40440 W		Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input checked="" type="checkbox"/> SCR002 <input type="checkbox"/> OTH001	
¼ / ¼ SW or Gov't Lot #	¼ NW	Section 29	Township 4 N	Range <input checked="" type="checkbox"/> E <input type="checkbox"/> W	
Well Street Address 2188 Church Street					
Well City, Village or Town East Troy, WI			Well ZIP Code 53120		
Subdivision Name			Lot #		

Facility Name Former Trent Tube Plant No.1			
Facility ID (FID or PWS) 265097030			
License/Permit/Monitoring #			
Original Well Owner			
Present Well Owner			
Mailing Address of Present Owner			
City of Present Owner		State	ZIP Code

Reason for Removal from Service
Temporary Injection Point

WI Unique Well # of Replacement Well

3. Filled & Sealed Well / Drillhole / Borehole Information

<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) 10/8/2019 to 10/14/2019
<input type="checkbox"/> Water Well	
<input checked="" type="checkbox"/> Borehole / Drillhole	If a Well Construction Report is available, please attach.
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): <u>GeoProbe</u>	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	
Total Well Depth From Ground Surface (ft.) 20	Casing Diameter (in.)
Lower Drillhole Diameter (in.) 1.25	Casing Depth (ft.)
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
If yes, to what depth (feet)?	Depth to Water (feet) 8

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) perforated?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
If bentonite chips were used, were they hydrated with water from a known safe source? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Required Method of Placing Sealing Material			
<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped			
<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): <u>Gravity</u>			
Sealing Materials			
<input type="checkbox"/> Neat Cement Grout		<input type="checkbox"/> Concrete	
<input type="checkbox"/> Sand-Cement (Concrete) Grout		<input checked="" type="checkbox"/> Bentonite Chips	
<i>For Monitoring Wells and Monitoring Well Boreholes Only:</i>			
<input type="checkbox"/> Bentonite Chips		<input type="checkbox"/> Bentonite - Cement Grout	
<input type="checkbox"/> Granular Bentonite		<input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Chipped Bentonite	Surface	20	0.75	

6. Comments

Temporary injection point- driven and removed

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing On-Site Environmental		License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 10/08/2019 to 10/14/2019	Date Received	Noted By
Street or Route P.O. Box 280			Telephone Number (608) 837-8992	Comments	
City Sun Prairie	State WI	ZIP Code 53590	Signature of Person Doing Work Prepared by GZA, provided field oversight		Date Signed

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information **2. Facility / Owner Information**

County Walworth	WI Unique Well # of Removed Well _____	Hicap # INJ-3
Latitude / Longitude (see instructions) 42.78116 N -88.40440 W	Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM	Method Code <input type="checkbox"/> GPS008 <input checked="" type="checkbox"/> SCR002 <input type="checkbox"/> OTH001
¼ / ¼ SW or Gov't Lot #	¼ NW	Section 29
Well Street Address 2188 Church Street		Township 4 N
Well City, Village or Town East Troy, WI		Range <input checked="" type="checkbox"/> E <input type="checkbox"/> W
Subdivision Name		Well ZIP Code 53120
Reason for Removal from Service Temporary Injection Point		Lot #
WI Unique Well # of Replacement Well _____		City of Present Owner

Facility Name Former Trent Tube Plant No.1
Facility ID (FID or PWS) 265097030
License/Permit/Monitoring #
Original Well Owner
Present Well Owner
Mailing Address of Present Owner
State
ZIP Code

3. Filled & Sealed Well / Drillhole / Borehole Information

<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) 10/8/2019 to 10/14/2019
<input type="checkbox"/> Water Well	If a Well Construction Report is available, please attach.
<input checked="" type="checkbox"/> Borehole / Drillhole	
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): <u>GeoProbe</u>	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	
Total Well Depth From Ground Surface (ft.) 20	Casing Diameter (in.)
Lower Drillhole Diameter (in.) 1.25	Casing Depth (ft.)
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
If yes, to what depth (feet)?	Depth to Water (feet) 8

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) perforated?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Required Method of Placing Sealing Material	
<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped	
<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): <u>Gravity</u>	
Sealing Materials	
<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete	
<input type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Bentonite Chips	
<i>For Monitoring Wells and Monitoring Well Boreholes Only:</i>	
<input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout	
<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Chipped Bentonite	Surface	20	0.75	

6. Comments

Temporary injection point- driven and removed

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing On-Site Environmental	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 10/08/2019 to 10/14/2019	Date Received	Noted By
Street or Route P.O. Box 280	Telephone Number (608) 837-8992	Comments		
City Sun Prairie	State WI	ZIP Code 53590	Signature of Person Doing Work Prepared by GZA, provided field oversight	Date Signed

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information **2. Facility / Owner Information**

County: Walworth WI Unique Well # of Removed Well: _____ Hicap #: INJ-4

Facility Name: Former Trent Tube Plant No.1

Latitude / Longitude (see instructions): 42.78116 N, -88.40440 W
 Format Code: DD, DDM
 Method Code: GPS008, SCR002, OTH001

Facility ID (FID or PWS): 265097030

1/4 SW, 1/4 NW, Section 29, Township 4 N, Range E, W

License/Permit/Monitoring #

Well Street Address: 2188 Church Street

Original Well Owner

Well City, Village or Town: East Troy, WI Well ZIP Code: 53120

Present Well Owner

Subdivision Name: _____ Lot #: _____

Mailing Address of Present Owner

Reason for Removal from Service: Temporary Injection Point WI Unique Well # of Replacement Well: _____

3. Filled & Sealed Well / Drillhole / Borehole Information

4. Pump, Liner, Screen, Casing & Sealing Material

Monitoring Well Original Construction Date (mm/dd/yyyy): 10/8/2019 to 10/14/2019
 Water Well
 Borehole / Drillhole If a Well Construction Report is available, please attach.

- Pump and piping removed? Yes No N/A
 Liner(s) removed? Yes No N/A
 Liner(s) perforated? Yes No N/A
 Screen removed? Yes No N/A
 Casing left in place? Yes No N/A

Construction Type:
 Drilled Driven (Sandpoint) Dug
 Other (specify): GeoProbe

- Was casing cut off below surface? Yes No N/A
 Did sealing material rise to surface? Yes No N/A
 Did material settle after 24 hours? Yes No N/A
 If yes, was hole retopped? Yes No N/A
 If bentonite chips were used, were they hydrated with water from a known safe source? Yes No N/A

Formation Type:
 Unconsolidated Formation Bedrock

Required Method of Placing Sealing Material
 Conductor Pipe-Gravity Conductor Pipe-Pumped
 Screened & Poured (Bentonite Chips) Other (Explain): Gravity

Total Well Depth From Ground Surface (ft.): 20 Casing Diameter (in.): _____

Lower Drillhole Diameter (in.): 1.25 Casing Depth (ft.): _____

Sealing Materials
 Neat Cement Grout Concrete
 Sand-Cement (Concrete) Grout Bentonite Chips

Was well annular space grouted? Yes No Unknown

If yes, to what depth (feet)? _____ Depth to Water (feet): 8

For Monitoring Wells and Monitoring Well Boreholes Only:
 Bentonite Chips Bentonite - Cement Grout
 Granular Bentonite Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	20	0.75	

Chipped Bentonite

6. Comments

Temporary injection point- driven and removed

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)	Date Received	Noted By
On-Site Environmental		10/08/2019 to 10/14/2019		
Street or Route: P.O. Box 280	City: Sun Prairie	State: WI	ZIP Code: 53590	Telephone Number: (608) 837-8992
Signature of Person Doing Work: Prepared by GZA, provided field oversight			Date Signed	

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information **2. Facility / Owner Information**

County Walworth		WI Unique Well # of Removed Well _____		Hicap # INJ-5	
Latitude / Longitude (see instructions) 42.78116 N -88.40440 W		Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input checked="" type="checkbox"/> SCR002 <input type="checkbox"/> OTH001	
¼ / ¼ SW or Gov't Lot #	¼ NW	Section 29	Township 4 N	Range <input checked="" type="checkbox"/> E <input type="checkbox"/> W	
Well Street Address 2188 Church Street					
Well City, Village or Town East Troy, WI			Well ZIP Code 53120		
Subdivision Name			Lot #		

Facility Name Former Trent Tube Plant No.1		
Facility ID (FID or PWS) 265097030		
License/Permit/Monitoring #		
Original Well Owner		
Present Well Owner		
Mailing Address of Present Owner		
City of Present Owner	State	ZIP Code

3. Filled & Sealed Well / Drillhole / Borehole Information

Reason for Removal from Service Temporary Injection Point		WI Unique Well # of Replacement Well _____	
<input type="checkbox"/> Monitoring Well		Original Construction Date (mm/dd/yyyy) 10/8/2019 to 10/14/2019	
<input type="checkbox"/> Water Well		If a Well Construction Report is available, please attach.	
<input checked="" type="checkbox"/> Borehole / Drillhole			
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): <u>GeoProbe</u>			
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock			
Total Well Depth From Ground Surface (ft.) 20		Casing Diameter (in.)	
Lower Drillhole Diameter (in.) 1.25		Casing Depth (ft.)	
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown			
If yes, to what depth (feet)?		Depth to Water (feet) 8	

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) perforated?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
If bentonite chips were used, were they hydrated with water from a known safe source? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Required Method of Placing Sealing Material			
<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped			
<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): <u>Gravity</u>			
Sealing Materials			
<input type="checkbox"/> Neat Cement Grout		<input type="checkbox"/> Concrete	
<input type="checkbox"/> Sand-Cement (Concrete) Grout		<input checked="" type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only:			
<input type="checkbox"/> Bentonite Chips		<input type="checkbox"/> Bentonite - Cement Grout	
<input type="checkbox"/> Granular Bentonite		<input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Chipped Bentonite	Surface	20	0.75	

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	20	0.75	

6. Comments

Temporary injection point- driven and removed

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing On-Site Environmental		License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 10/08/2019 to 10/14/2019		Date Received	Noted By
Street or Route P.O. Box 280			Telephone Number (608) 837-8992		Comments	
City Sun Prairie	State WI	ZIP Code 53590	Signature of Person Doing Work Prepared by GZA, provided field oversight		Date Signed	

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information **2. Facility / Owner Information**

County Walworth	WI Unique Well # of Removed Well _____	Hicap # INJ-6
Latitude / Longitude (see instructions) 42.78116 N -88.40440 W	Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM	Method Code <input type="checkbox"/> GPS008 <input checked="" type="checkbox"/> SCR002 <input type="checkbox"/> OTH001
¼ / ¼ SW or Gov't Lot #	¼ NW	Section 29
Well Street Address 2188 Church Street		Township 4 N
Well City, Village or Town East Troy, WI		Range <input checked="" type="checkbox"/> E <input type="checkbox"/> W
Subdivision Name		Well ZIP Code 53120
Reason for Removal from Service Temporary Injection Point		Lot #
WI Unique Well # of Replacement Well _____		City of Present Owner

Facility Name Former Trent Tube Plant No.1
Facility ID (FID or PWS) 265097030
License/Permit/Monitoring #
Original Well Owner
Present Well Owner
Mailing Address of Present Owner
State
ZIP Code

3. Filled & Sealed Well / Drillhole / Borehole Information

<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) 10/8/2019 to 10/14/2019
<input type="checkbox"/> Water Well	If a Well Construction Report is available, please attach.
<input checked="" type="checkbox"/> Borehole / Drillhole	
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): <u>GeoProbe</u>	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	
Total Well Depth From Ground Surface (ft.) 20	Casing Diameter (in.)
Lower Drillhole Diameter (in.) 1.25	Casing Depth (ft.)
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
If yes, to what depth (feet)?	Depth to Water (feet) 8

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) perforated?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Required Method of Placing Sealing Material	
<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped	
<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): <u>Gravity</u>	
Sealing Materials	
<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete	
<input type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Bentonite Chips	
<i>For Monitoring Wells and Monitoring Well Boreholes Only:</i>	
<input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout	
<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Chipped Bentonite	Surface	20	0.75	

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	20	0.75	

6. Comments

Temporary injection point- driven and removed

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing On-Site Environmental	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 10/08/2019 to 10/14/2019	Date Received	Noted By
Street or Route P.O. Box 280	Telephone Number (608) 837-8992	Comments		
City Sun Prairie	State WI	ZIP Code 53590	Signature of Person Doing Work Prepared by GZA, provided field oversight	Date Signed

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information **2. Facility / Owner Information**

County Walworth		WI Unique Well # of Removed Well _____		Hicap # INJ-7	
Latitude / Longitude (see instructions) 42.78116 N -88.40440 W		Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input checked="" type="checkbox"/> SCR002 <input type="checkbox"/> OTH001	
¼ / ¼ SW or Gov't Lot #	¼ NW	Section 29	Township 4 N	Range <input checked="" type="checkbox"/> E <input type="checkbox"/> W	
Well Street Address 2188 Church Street					
Well City, Village or Town East Troy, WI			Well ZIP Code 53120		
Subdivision Name			Lot #		

Facility Name Former Trent Tube Plant No.1		
Facility ID (FID or PWS) 265097030		
License/Permit/Monitoring #		
Original Well Owner		
Present Well Owner		
Mailing Address of Present Owner		
City of Present Owner	State	ZIP Code

3. Filled & Sealed Well / Drillhole / Borehole Information

Reason for Removal from Service Temporary Injection Point		WI Unique Well # of Replacement Well _____	
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Original Construction Date (mm/dd/yyyy) 10/8/2019 to 10/14/2019	
If a Well Construction Report is available, please attach.			
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): <u>GeoProbe</u>			
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock			
Total Well Depth From Ground Surface (ft.) 20		Casing Diameter (in.)	
Lower Drillhole Diameter (in.) 1.25		Casing Depth (ft.)	
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown			
If yes, to what depth (feet)?		Depth to Water (feet) 8	

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) perforated?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
If bentonite chips were used, were they hydrated with water from a known safe source? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Required Method of Placing Sealing Material			
<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped			
<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): <u>Gravity</u>			
Sealing Materials			
<input type="checkbox"/> Neat Cement Grout		<input type="checkbox"/> Concrete	
<input type="checkbox"/> Sand-Cement (Concrete) Grout		<input checked="" type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only:			
<input type="checkbox"/> Bentonite Chips		<input type="checkbox"/> Bentonite - Cement Grout	
<input type="checkbox"/> Granular Bentonite		<input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Chipped Bentonite	Surface	20	0.75	

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	20	0.75	

6. Comments

Temporary injection point- driven and removed

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing On-Site Environmental		License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 10/08/2019 to 10/14/2019		Date Received	Noted By
Street or Route P.O. Box 280			Telephone Number (608) 837-8992		Comments	
City Sun Prairie	State WI	ZIP Code 53590	Signature of Person Doing Work Prepared by GZA, provided field oversight		Date Signed	

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Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information **2. Facility / Owner Information**

County Walworth		WI Unique Well # of Removed Well _____		Hicap # INJ-8	
Latitude / Longitude (see instructions) 42.78116 N -88.40440 W		Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input checked="" type="checkbox"/> SCR002 <input type="checkbox"/> OTH001	
¼ / ¼ SW or Gov't Lot #	¼ NW	Section 29	Township 4 N	Range <input checked="" type="checkbox"/> E <input type="checkbox"/> W	
Well Street Address 2188 Church Street					
Well City, Village or Town East Troy, WI			Well ZIP Code 53120		
Subdivision Name			Lot #		

Facility Name Former Trent Tube Plant No.1		
Facility ID (FID or PWS) 265097030		
License/Permit/Monitoring #		
Original Well Owner		
Present Well Owner		
Mailing Address of Present Owner		
City of Present Owner	State	ZIP Code

Reason for Removal from Service
Temporary Injection Point

WI Unique Well # of Replacement Well

3. Filled & Sealed Well / Drillhole / Borehole Information

Monitoring Well
 Water Well
 Borehole / Drillhole

Original Construction Date (mm/dd/yyyy)
10/8/2019 to 10/14/2019

If a Well Construction Report is available, please attach.

Construction Type:

Drilled Driven (Sandpoint) Dug
 Other (specify): GeoProbe

Formation Type:

Unconsolidated Formation Bedrock

Total Well Depth From Ground Surface (ft.)
20

Casing Diameter (in.)

Lower Drillhole Diameter (in.)
1.25

Casing Depth (ft.)

Was well annular space grouted? Yes No Unknown

If yes, to what depth (feet)?

Depth to Water (feet)
8

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed? Yes No N/A

Liner(s) removed? Yes No N/A

Liner(s) perforated? Yes No N/A

Screen removed? Yes No N/A

Casing left in place? Yes No N/A

Was casing cut off below surface? Yes No N/A

Did sealing material rise to surface? Yes No N/A

Did material settle after 24 hours? Yes No N/A

If yes, was hole retopped? Yes No N/A

If bentonite chips were used, were they hydrated with water from a known safe source? Yes No N/A

Required Method of Placing Sealing Material

Conductor Pipe-Gravity Conductor Pipe-Pumped
 Screened & Poured (Bentonite Chips) Other (Explain): Gravity

Sealing Materials

Neat Cement Grout Concrete
 Sand-Cement (Concrete) Grout Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:

Bentonite Chips Bentonite - Cement Grout
 Granular Bentonite Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Chipped Bentonite	Surface	20	0.75	

6. Comments

Temporary injection point- driven and removed

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing On-Site Environmental		License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 10/08/2019 to 10/14/2019		Date Received	Noted By
Street or Route P.O. Box 280			Telephone Number (608) 837-8992		Comments	
City Sun Prairie	State WI	ZIP Code 53590	Signature of Person Doing Work Prepared by GZA, provided field oversight			Date Signed

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Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information **2. Facility / Owner Information**

County Walworth		WI Unique Well # of Removed Well _____		Hicap # INJ-9	
Latitude / Longitude (see instructions) 42.78116 N -88.40440 W		Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input checked="" type="checkbox"/> SCR002 <input type="checkbox"/> OTH001	
¼ / ¼ SW or Gov't Lot #	¼ NW	Section 29	Township 4 N	Range <input checked="" type="checkbox"/> E <input type="checkbox"/> W	
Well Street Address 2188 Church Street					
Well City, Village or Town East Troy, WI			Well ZIP Code 53120		
Subdivision Name			Lot #		

Facility Name Former Trent Tube Plant No.1		
Facility ID (FID or PWS) 265097030		
License/Permit/Monitoring #		
Original Well Owner		
Present Well Owner		
Mailing Address of Present Owner		
City of Present Owner	State	ZIP Code

3. Filled & Sealed Well / Drillhole / Borehole Information

Reason for Removal from Service Temporary Injection Point		WI Unique Well # of Replacement Well _____	
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Original Construction Date (mm/dd/yyyy) 10/8/2019 to 10/14/2019	
If a Well Construction Report is available, please attach.			
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): <u>GeoProbe</u>			
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock			
Total Well Depth From Ground Surface (ft.) 20		Casing Diameter (in.)	
Lower Drillhole Diameter (in.) 1.25		Casing Depth (ft.)	
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown			
If yes, to what depth (feet)?		Depth to Water (feet) 8	

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) perforated?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
If bentonite chips were used, were they hydrated with water from a known safe source? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Required Method of Placing Sealing Material			
<input type="checkbox"/> Conductor Pipe-Gravity		<input type="checkbox"/> Conductor Pipe-Pumped	
<input type="checkbox"/> Screened & Poured (Bentonite Chips)		<input checked="" type="checkbox"/> Other (Explain): <u>Gravity</u>	
Sealing Materials			
<input type="checkbox"/> Neat Cement Grout		<input type="checkbox"/> Concrete	
<input type="checkbox"/> Sand-Cement (Concrete) Grout		<input checked="" type="checkbox"/> Bentonite Chips	
<i>For Monitoring Wells and Monitoring Well Boreholes Only:</i>			
<input type="checkbox"/> Bentonite Chips		<input type="checkbox"/> Bentonite - Cement Grout	
<input type="checkbox"/> Granular Bentonite		<input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Chipped Bentonite	Surface	20	0.75	

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	20	0.75	

6. Comments

Temporary injection point- driven and removed

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing On-Site Environmental		License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 10/08/2019 to 10/14/2019	Date Received	Noted By
Street or Route P.O. Box 280			Telephone Number (608) 837-8992	Comments	
City Sun Prairie	State WI	ZIP Code 53590	Signature of Person Doing Work Prepared by GZA, provided field oversight		Date Signed

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Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information **2. Facility / Owner Information**

County Walworth		WI Unique Well # of Removed Well _____		Hicap # INJ-10	
Latitude / Longitude (see instructions) 42.78116 N -88.40440 W		Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input checked="" type="checkbox"/> SCR002 <input type="checkbox"/> OTH001	
¼ / ¼ SW or Gov't Lot #	¼ NW	Section 29	Township 4 N	Range <input checked="" type="checkbox"/> E <input type="checkbox"/> W	
Well Street Address 2188 Church Street					
Well City, Village or Town East Troy, WI			Well ZIP Code 53120		
Subdivision Name			Lot #		

Facility Name Former Trent Tube Plant No.1		
Facility ID (FID or PWS) 265097030		
License/Permit/Monitoring #		
Original Well Owner		
Present Well Owner		
Mailing Address of Present Owner		
City of Present Owner	State	ZIP Code

3. Filled & Sealed Well / Drillhole / Borehole Information

Reason for Removal from Service Temporary Injection Point		WI Unique Well # of Replacement Well _____	
<input type="checkbox"/> Monitoring Well		Original Construction Date (mm/dd/yyyy) 10/8/2019 to 10/14/2019	
<input type="checkbox"/> Water Well		If a Well Construction Report is available, please attach.	
<input checked="" type="checkbox"/> Borehole / Drillhole			
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): <u>GeoProbe</u>			
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock			
Total Well Depth From Ground Surface (ft.) 20		Casing Diameter (in.)	
Lower Drillhole Diameter (in.) 1.25		Casing Depth (ft.)	
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown			
If yes, to what depth (feet)?		Depth to Water (feet) 8	

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) perforated?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
If bentonite chips were used, were they hydrated with water from a known safe source? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Required Method of Placing Sealing Material			
<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped			
<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): <u>Gravity</u>			
Sealing Materials			
<input type="checkbox"/> Neat Cement Grout		<input type="checkbox"/> Concrete	
<input type="checkbox"/> Sand-Cement (Concrete) Grout		<input checked="" type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only:			
<input type="checkbox"/> Bentonite Chips		<input type="checkbox"/> Bentonite - Cement Grout	
<input type="checkbox"/> Granular Bentonite		<input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Chipped Bentonite	Surface	20	0.75	

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	20	0.75	

6. Comments

Temporary injection point- driven and removed

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing On-Site Environmental		License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 10/08/2019 to 10/14/2019		Date Received	Noted By
Street or Route P.O. Box 280			Telephone Number (608) 837-8992		Comments	
City Sun Prairie	State WI	ZIP Code 53590	Signature of Person Doing Work Prepared by GZA, provided field oversight		Date Signed	

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Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information **2. Facility / Owner Information**

County Walworth		WI Unique Well # of Removed Well _____		Hicap # INJ-11	
Latitude / Longitude (see instructions) 42.78116 N -88.40440 W		Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input checked="" type="checkbox"/> SCR002 <input type="checkbox"/> OTH001	
¼ / ¼ SW or Gov't Lot #	¼ NW	Section 29	Township 4 N	Range <input checked="" type="checkbox"/> E <input type="checkbox"/> W	
Well Street Address 2188 Church Street					
Well City, Village or Town East Troy, WI			Well ZIP Code 53120		
Subdivision Name			Lot #		

Facility Name Former Trent Tube Plant No.1		
Facility ID (FID or PWS) 265097030		
License/Permit/Monitoring #		
Original Well Owner		
Present Well Owner		
Mailing Address of Present Owner		
City of Present Owner	State	ZIP Code

3. Filled & Sealed Well / Drillhole / Borehole Information

Reason for Removal from Service Temporary Injection Point		WI Unique Well # of Replacement Well _____	
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Original Construction Date (mm/dd/yyyy) 10/8/2019 to 10/14/2019	
If a Well Construction Report is available, please attach.			
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): <u>GeoProbe</u>			
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock			
Total Well Depth From Ground Surface (ft.) 20		Casing Diameter (in.)	
Lower Drillhole Diameter (in.) 1.25		Casing Depth (ft.)	
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown			
If yes, to what depth (feet)?		Depth to Water (feet) 8	

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) perforated?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
If bentonite chips were used, were they hydrated with water from a known safe source? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Required Method of Placing Sealing Material			
<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): <u>Gravity</u>			
Sealing Materials			
<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Bentonite Chips			
For Monitoring Wells and Monitoring Well Boreholes Only:			
<input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry			

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Chipped Bentonite	Surface	20	0.75	

6. Comments

Temporary injection point- driven and removed

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing On-Site Environmental		License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 10/08/2019 to 10/14/2019	Date Received	Noted By
Street or Route P.O. Box 280			Telephone Number (608) 837-8992	Comments	
City Sun Prairie	State WI	ZIP Code 53590	Signature of Person Doing Work Prepared by GZA, provided field oversight		Date Signed

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information **2. Facility / Owner Information**

County Walworth		WI Unique Well # of Removed Well _____		Hicap # INJ-12	
Latitude / Longitude (see instructions) 42.78116 N -88.40440 W		Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input checked="" type="checkbox"/> SCR002 <input type="checkbox"/> OTH001	
¼ / ¼ SW or Gov't Lot #	¼ NW	Section 29	Township 4 N	Range <input checked="" type="checkbox"/> E <input type="checkbox"/> W	
Well Street Address 2188 Church Street					
Well City, Village or Town East Troy, WI			Well ZIP Code 53120		
Subdivision Name			Lot #		

Facility Name Former Trent Tube Plant No.1		
Facility ID (FID or PWS) 265097030		
License/Permit/Monitoring #		
Original Well Owner		
Present Well Owner		
Mailing Address of Present Owner		
City of Present Owner	State	ZIP Code

3. Filled & Sealed Well / Drillhole / Borehole Information

Reason for Removal from Service Temporary Injection Point		WI Unique Well # of Replacement Well _____	
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Original Construction Date (mm/dd/yyyy) 10/8/2019 to 10/14/2019	
If a Well Construction Report is available, please attach.			
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): <u>GeoProbe</u>			
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock			
Total Well Depth From Ground Surface (ft.) 20		Casing Diameter (in.)	
Lower Drillhole Diameter (in.) 1.25		Casing Depth (ft.)	
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown			
If yes, to what depth (feet)?		Depth to Water (feet) 8	

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) perforated?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
If bentonite chips were used, were they hydrated with water from a known safe source? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Required Method of Placing Sealing Material			
<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped			
<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): <u>Gravity</u>			
Sealing Materials			
<input type="checkbox"/> Neat Cement Grout		<input type="checkbox"/> Concrete	
<input type="checkbox"/> Sand-Cement (Concrete) Grout		<input checked="" type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only:			
<input type="checkbox"/> Bentonite Chips		<input type="checkbox"/> Bentonite - Cement Grout	
<input type="checkbox"/> Granular Bentonite		<input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Chipped Bentonite	Surface	20	0.75	

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	20	0.75	

6. Comments

Temporary injection point- driven and removed

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing On-Site Environmental		License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 10/08/2019 to 10/14/2019		Date Received	Noted By
Street or Route P.O. Box 280			Telephone Number (608) 837-8992		Comments	
City Sun Prairie	State WI	ZIP Code 53590	Signature of Person Doing Work Prepared by GZA, provided field oversight			Date Signed

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Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information **2. Facility / Owner Information**

County Walworth		WI Unique Well # of Removed Well _____		Hicap # INJ-13	
Latitude / Longitude (see instructions) 42.78116 N -88.40440 W		Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input checked="" type="checkbox"/> SCR002 <input type="checkbox"/> OTH001	
¼ / ¼ SW or Gov't Lot #	¼ NW	Section 29	Township 4 N	Range <input checked="" type="checkbox"/> E <input type="checkbox"/> W	
Well Street Address 2188 Church Street					
Well City, Village or Town East Troy, WI			Well ZIP Code 53120		
Subdivision Name			Lot #		
Reason for Removal from Service Temporary Injection Point		WI Unique Well # of Replacement Well _____			

Facility Name Former Trent Tube Plant No.1			
Facility ID (FID or PWS) 265097030			
License/Permit/Monitoring #			
Original Well Owner			
Present Well Owner			
Mailing Address of Present Owner			
City of Present Owner		State	ZIP Code

3. Filled & Sealed Well / Drillhole / Borehole Information

<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Original Construction Date (mm/dd/yyyy) 10/8/2019 to 10/14/2019	
If a Well Construction Report is available, please attach.			
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): <u>GeoProbe</u>			
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock			
Total Well Depth From Ground Surface (ft.) 20		Casing Diameter (in.)	
Lower Drillhole Diameter (in.) 1.25		Casing Depth (ft.)	
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown			
If yes, to what depth (feet)?		Depth to Water (feet) 8	

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) perforated?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
If bentonite chips were used, were they hydrated with water from a known safe source? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Required Method of Placing Sealing Material			
<input type="checkbox"/> Conductor Pipe-Gravity		<input type="checkbox"/> Conductor Pipe-Pumped	
<input type="checkbox"/> Screened & Poured (Bentonite Chips)		<input checked="" type="checkbox"/> Other (Explain): <u>Gravity</u>	
Sealing Materials			
<input type="checkbox"/> Neat Cement Grout		<input type="checkbox"/> Concrete	
<input type="checkbox"/> Sand-Cement (Concrete) Grout		<input checked="" type="checkbox"/> Bentonite Chips	
<i>For Monitoring Wells and Monitoring Well Boreholes Only:</i>			
<input type="checkbox"/> Bentonite Chips		<input type="checkbox"/> Bentonite - Cement Grout	
<input type="checkbox"/> Granular Bentonite		<input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Chipped Bentonite	Surface	20	0.75	

6. Comments

Temporary injection point- driven and removed

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing On-Site Environmental		License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 10/08/2019 to 10/14/2019	Date Received	Noted By
Street or Route P.O. Box 280			Telephone Number (608) 837-8992	Comments	
City Sun Prairie	State WI	ZIP Code 53590	Signature of Person Doing Work Prepared by GZA, provided field oversight		Date Signed

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Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information **2. Facility / Owner Information**

County Walworth		WI Unique Well # of Removed Well _____		Hicap # INJ-14	
Latitude / Longitude (see instructions) 42.78116 N -88.40440 W		Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input checked="" type="checkbox"/> SCR002 <input type="checkbox"/> OTH001	
¼ / ¼ SW or Gov't Lot #	¼ NW	Section 29	Township 4 N	Range <input checked="" type="checkbox"/> E <input type="checkbox"/> W	
Well Street Address 2188 Church Street					
Well City, Village or Town East Troy, WI			Well ZIP Code 53120		
Subdivision Name			Lot #		

Facility Name Former Trent Tube Plant No.1			
Facility ID (FID or PWS) 265097030			
License/Permit/Monitoring #			
Original Well Owner			
Present Well Owner			
Mailing Address of Present Owner			
City of Present Owner		State	ZIP Code

3. Filled & Sealed Well / Drillhole / Borehole Information

Reason for Removal from Service Temporary Injection Point		WI Unique Well # of Replacement Well _____	
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Original Construction Date (mm/dd/yyyy) 10/8/2019 to 10/14/2019	
If a Well Construction Report is available, please attach.			
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): <u>GeoProbe</u>			
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock			
Total Well Depth From Ground Surface (ft.) 20		Casing Diameter (in.)	
Lower Drillhole Diameter (in.) 1.25		Casing Depth (ft.)	
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown			
If yes, to what depth (feet)?		Depth to Water (feet) 8	

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) perforated?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
If bentonite chips were used, were they hydrated with water from a known safe source? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Required Method of Placing Sealing Material			
<input type="checkbox"/> Conductor Pipe-Gravity		<input type="checkbox"/> Conductor Pipe-Pumped	
<input type="checkbox"/> Screened & Poured (Bentonite Chips)		<input checked="" type="checkbox"/> Other (Explain): <u>Gravity</u>	
Sealing Materials			
<input type="checkbox"/> Neat Cement Grout		<input type="checkbox"/> Concrete	
<input type="checkbox"/> Sand-Cement (Concrete) Grout		<input checked="" type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only:			
<input type="checkbox"/> Bentonite Chips		<input type="checkbox"/> Bentonite - Cement Grout	
<input type="checkbox"/> Granular Bentonite		<input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Chipped Bentonite	Surface	20	0.75	

6. Comments

Temporary injection point- driven and removed

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing On-Site Environmental		License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 10/08/2019 to 10/14/2019		Date Received	Noted By
Street or Route P.O. Box 280			Telephone Number (608) 837-8992		Comments	
City Sun Prairie	State WI	ZIP Code 53590	Signature of Person Doing Work Prepared by GZA, provided field oversight			Date Signed

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Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information **2. Facility / Owner Information**

County Walworth		WI Unique Well # of Removed Well _____		Hicap # INJ-15	
Latitude / Longitude (see instructions) 42.78116 N -88.40440 W		Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input checked="" type="checkbox"/> SCR002 <input type="checkbox"/> OTH001	
¼ / ¼ SW or Gov't Lot #	¼ NW	Section 29	Township 4 N	Range <input checked="" type="checkbox"/> E <input type="checkbox"/> W	
Well Street Address 2188 Church Street					
Well City, Village or Town East Troy, WI			Well ZIP Code 53120		
Subdivision Name			Lot #		

Facility Name Former Trent Tube Plant No.1		
Facility ID (FID or PWS) 265097030		
License/Permit/Monitoring #		
Original Well Owner		
Present Well Owner		
Mailing Address of Present Owner		
City of Present Owner	State	ZIP Code

3. Filled & Sealed Well / Drillhole / Borehole Information

Reason for Removal from Service Temporary Injection Point		WI Unique Well # of Replacement Well _____	
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Original Construction Date (mm/dd/yyyy) 10/8/2019 to 10/14/2019	
If a Well Construction Report is available, please attach.			
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): <u>GeoProbe</u>			
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock			
Total Well Depth From Ground Surface (ft.) 20		Casing Diameter (in.)	
Lower Drillhole Diameter (in.) 1.25		Casing Depth (ft.)	
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown			
If yes, to what depth (feet)?		Depth to Water (feet) 8	

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) perforated?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
If bentonite chips were used, were they hydrated with water from a known safe source? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Required Method of Placing Sealing Material			
<input type="checkbox"/> Conductor Pipe-Gravity		<input type="checkbox"/> Conductor Pipe-Pumped	
<input type="checkbox"/> Screened & Poured (Bentonite Chips)		<input checked="" type="checkbox"/> Other (Explain): <u>Gravity</u>	
Sealing Materials			
<input type="checkbox"/> Neat Cement Grout		<input type="checkbox"/> Concrete	
<input type="checkbox"/> Sand-Cement (Concrete) Grout		<input checked="" type="checkbox"/> Bentonite Chips	
<i>For Monitoring Wells and Monitoring Well Boreholes Only:</i>			
<input type="checkbox"/> Bentonite Chips		<input type="checkbox"/> Bentonite - Cement Grout	
<input type="checkbox"/> Granular Bentonite		<input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Chipped Bentonite	Surface	20	0.75	

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	20	0.75	

6. Comments

Temporary injection point- driven and removed

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing On-Site Environmental		License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 10/08/2019 to 10/14/2019		Date Received	Noted By
Street or Route P.O. Box 280			Telephone Number (608) 837-8992		Comments	
City Sun Prairie	State WI	ZIP Code 53590	Signature of Person Doing Work Prepared by GZA, provided field oversight		Date Signed	

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Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information **2. Facility / Owner Information**

County Walworth		WI Unique Well # of Removed Well _____		Hicap # INJ-16	
Latitude / Longitude (see instructions) 42.78116 N -88.40440 W		Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input checked="" type="checkbox"/> SCR002 <input type="checkbox"/> OTH001	
¼ / ¼ SW or Gov't Lot #	¼ NW	Section 29	Township 4 N	Range <input checked="" type="checkbox"/> E <input type="checkbox"/> W	
Well Street Address 2188 Church Street					
Well City, Village or Town East Troy, WI			Well ZIP Code 53120		
Subdivision Name			Lot #		

Facility Name Former Trent Tube Plant No.1		
Facility ID (FID or PWS) 265097030		
License/Permit/Monitoring #		
Original Well Owner		
Present Well Owner		
Mailing Address of Present Owner		
City of Present Owner	State	ZIP Code

Reason for Removal from Service
Temporary Injection Point

WI Unique Well # of Replacement Well

3. Filled & Sealed Well / Drillhole / Borehole Information

<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) 10/8/2019 to 10/14/2019
<input type="checkbox"/> Water Well	
<input checked="" type="checkbox"/> Borehole / Drillhole	If a Well Construction Report is available, please attach.
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): <u>GeoProbe</u>	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	
Total Well Depth From Ground Surface (ft.) 20	Casing Diameter (in.)
Lower Drillhole Diameter (in.) 1.25	Casing Depth (ft.)
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
If yes, to what depth (feet)?	Depth to Water (feet) 8

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) perforated?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
If bentonite chips were used, were they hydrated with water from a known safe source? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Required Method of Placing Sealing Material	
<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped	
<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): <u>Gravity</u>	
Sealing Materials	
<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete	
<input type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Bentonite Chips	
<i>For Monitoring Wells and Monitoring Well Boreholes Only:</i>	
<input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout	
<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Chipped Bentonite	Surface	20	0.75	

6. Comments

Temporary injection point- driven and removed

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing On-Site Environmental		License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 10/08/2019 to 10/14/2019	Date Received	Noted By
Street or Route P.O. Box 280			Telephone Number (608) 837-8992	Comments	
City Sun Prairie	State WI	ZIP Code 53590	Signature of Person Doing Work Prepared by GZA, provided field oversight	Date Signed	

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information **2. Facility / Owner Information**

County Walworth		WI Unique Well # of Removed Well _____		Hicap # INJ-17	
Latitude / Longitude (see instructions) 42.78116 N -88.40440 W		Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input checked="" type="checkbox"/> SCR002 <input type="checkbox"/> OTH001	
¼ / ¼ SW or Gov't Lot #	¼ NW	Section 29	Township 4 N	Range <input checked="" type="checkbox"/> E <input type="checkbox"/> W	
Well Street Address 2188 Church Street					
Well City, Village or Town East Troy, WI			Well ZIP Code 53120		
Subdivision Name			Lot #		

Facility Name Former Trent Tube Plant No.1		
Facility ID (FID or PWS) 265097030		
License/Permit/Monitoring #		
Original Well Owner		
Present Well Owner		
Mailing Address of Present Owner		
City of Present Owner	State	ZIP Code

3. Filled & Sealed Well / Drillhole / Borehole Information

Reason for Removal from Service Temporary Injection Point		WI Unique Well # of Replacement Well _____	
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Original Construction Date (mm/dd/yyyy) 10/8/2019 to 10/14/2019	
If a Well Construction Report is available, please attach.			
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): <u>GeoProbe</u>			
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock			
Total Well Depth From Ground Surface (ft.) 20		Casing Diameter (in.)	
Lower Drillhole Diameter (in.) 1.25		Casing Depth (ft.)	
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown			
If yes, to what depth (feet)?		Depth to Water (feet) 8	

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) perforated?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
If bentonite chips were used, were they hydrated with water from a known safe source? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Required Method of Placing Sealing Material			
<input type="checkbox"/> Conductor Pipe-Gravity		<input type="checkbox"/> Conductor Pipe-Pumped	
<input type="checkbox"/> Screened & Poured (Bentonite Chips)		<input checked="" type="checkbox"/> Other (Explain): <u>Gravity</u>	
Sealing Materials			
<input type="checkbox"/> Neat Cement Grout		<input type="checkbox"/> Concrete	
<input type="checkbox"/> Sand-Cement (Concrete) Grout		<input checked="" type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only:			
<input type="checkbox"/> Bentonite Chips		<input type="checkbox"/> Bentonite - Cement Grout	
<input type="checkbox"/> Granular Bentonite		<input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Chipped Bentonite	Surface	20	0.75	

6. Comments

Temporary injection point- driven and removed

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing On-Site Environmental		License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 10/08/2019 to 10/14/2019		Date Received	Noted By
Street or Route P.O. Box 280			Telephone Number (608) 837-8992		Comments	
City Sun Prairie	State WI	ZIP Code 53590	Signature of Person Doing Work Prepared by GZA, provided field oversight			Date Signed

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information **2. Facility / Owner Information**

County Walworth		WI Unique Well # of Removed Well _____		Hicap # INJ-18	
Latitude / Longitude (see instructions) 42.78116 N -88.40440 W		Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input checked="" type="checkbox"/> SCR002 <input type="checkbox"/> OTH001	
¼ / ¼ SW or Gov't Lot #	¼ NW	Section 29	Township 4 N	Range <input checked="" type="checkbox"/> E <input type="checkbox"/> W	
Well Street Address 2188 Church Street					
Well City, Village or Town East Troy, WI			Well ZIP Code 53120		
Subdivision Name			Lot #		

Facility Name Former Trent Tube Plant No.1		
Facility ID (FID or PWS) 265097030		
License/Permit/Monitoring #		
Original Well Owner		
Present Well Owner		
Mailing Address of Present Owner		
City of Present Owner	State	ZIP Code

Reason for Removal from Service
Temporary Injection Point

WI Unique Well # of Replacement Well

3. Filled & Sealed Well / Drillhole / Borehole Information

<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) 10/8/2019 to 10/14/2019
<input type="checkbox"/> Water Well	
<input checked="" type="checkbox"/> Borehole / Drillhole	If a Well Construction Report is available, please attach.
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): <u>GeoProbe</u>	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	
Total Well Depth From Ground Surface (ft.) 20	Casing Diameter (in.)
Lower Drillhole Diameter (in.) 1.25	Casing Depth (ft.)
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
If yes, to what depth (feet)?	Depth to Water (feet) 8

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) perforated?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
If bentonite chips were used, were they hydrated with water from a known safe source? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Required Method of Placing Sealing Material	
<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped	
<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): <u>Gravity</u>	
Sealing Materials	
<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete	
<input type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only:	
<input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout	
<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Chipped Bentonite	Surface	20	0.75	

6. Comments

Temporary injection point- driven and removed

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing On-Site Environmental		License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 10/08/2019 to 10/14/2019	Date Received	Noted By
Street or Route P.O. Box 280			Telephone Number (608) 837-8992	Comments	
City Sun Prairie	State WI	ZIP Code 53590	Signature of Person Doing Work Prepared by GZA, provided field oversight	Date Signed	

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Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information **2. Facility / Owner Information**

County: Walworth WI Unique Well # of Removed Well: _____ Hicap #: INJ-19

Facility Name: Former Trent Tube Plant No.1

Latitude / Longitude (see instructions): 42.78116 N, -88.40440 W
 Format Code: DD, DDM
 Method Code: GPS008, SCR002, OTH001

Facility ID (FID or PWS): 265097030

¼ / ¼ SW, ¼ NW, Section 29, Township 4 N, Range E, W

License/Permit/Monitoring #

Well Street Address: 2188 Church Street

Original Well Owner

Well City, Village or Town: East Troy, WI Well ZIP Code: 53120

Present Well Owner

Subdivision Name: _____ Lot #: _____

Mailing Address of Present Owner

Reason for Removal from Service: Temporary Injection Point WI Unique Well # of Replacement Well: _____

3. Filled & Sealed Well / Drillhole / Borehole Information

4. Pump, Liner, Screen, Casing & Sealing Material

Monitoring Well Original Construction Date (mm/dd/yyyy): 10/8/2019 to 10/14/2019
 Water Well
 Borehole / Drillhole If a Well Construction Report is available, please attach.

- Pump and piping removed? Yes No N/A
 Liner(s) removed? Yes No N/A
 Liner(s) perforated? Yes No N/A
 Screen removed? Yes No N/A
 Casing left in place? Yes No N/A

Construction Type:
 Drilled Driven (Sandpoint) Dug
 Other (specify): GeoProbe

- Was casing cut off below surface? Yes No N/A
 Did sealing material rise to surface? Yes No N/A
 Did material settle after 24 hours? Yes No N/A
 If yes, was hole retopped? Yes No N/A
 If bentonite chips were used, were they hydrated with water from a known safe source? Yes No N/A

Formation Type:
 Unconsolidated Formation Bedrock

Required Method of Placing Sealing Material:
 Conductor Pipe-Gravity Conductor Pipe-Pumped
 Screened & Poured (Bentonite Chips) Other (Explain): Gravity

Total Well Depth From Ground Surface (ft.): 20 Casing Diameter (in.): _____

Sealing Materials:
 Neat Cement Grout Concrete
 Sand-Cement (Concrete) Grout Bentonite Chips

Lower Drillhole Diameter (in.): 1.25 Casing Depth (ft.): _____

For Monitoring Wells and Monitoring Well Boreholes Only:
 Bentonite Chips Bentonite - Cement Grout
 Granular Bentonite Bentonite - Sand Slurry

Was well annular space grouted? Yes No Unknown

If yes, to what depth (feet)? _____ Depth to Water (feet): 8

5. Material Used to Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	20	0.75	

Chipped Bentonite

6. Comments

Temporary injection point- driven and removed

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)	Date Received	Noted By
On-Site Environmental		10/08/2019 to 10/14/2019		
Street or Route: P.O. Box 280	City: Sun Prairie	State: WI	ZIP Code: 53590	Telephone Number: (608) 837-8992
Signature of Person Doing Work: Prepared by GZA, provided field oversight			Date Signed	

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information **2. Facility / Owner Information**

County: Walworth WI Unique Well # of Removed Well: _____ Hicap #: INJ-20

Facility Name: Former Trent Tube Plant No.1

Latitude / Longitude (see instructions): 42.78116 N, -88.40440 W
 Format Code: DD, DDM
 Method Code: GPS008, SCR002, OTH001

Facility ID (FID or PWS): 265097030

1/4 SW, 1/4 NW, Section 29, Township 4 N, Range E, W

License/Permit/Monitoring #

Well Street Address: 2188 Church Street

Original Well Owner

Well City, Village or Town: East Troy, WI Well ZIP Code: 53120

Present Well Owner

Subdivision Name: _____ Lot #: _____

Mailing Address of Present Owner

Reason for Removal from Service: Temporary Injection Point WI Unique Well # of Replacement Well: _____

3. Filled & Sealed Well / Drillhole / Borehole Information

4. Pump, Liner, Screen, Casing & Sealing Material

Monitoring Well Original Construction Date (mm/dd/yyyy): 10/8/2019 to 10/14/2019
 Water Well
 Borehole / Drillhole If a Well Construction Report is available, please attach.

- Pump and piping removed? Yes No N/A
 Liner(s) removed? Yes No N/A
 Liner(s) perforated? Yes No N/A
 Screen removed? Yes No N/A
 Casing left in place? Yes No N/A

Construction Type:
 Drilled Driven (Sandpoint) Dug
 Other (specify): GeoProbe

- Was casing cut off below surface? Yes No N/A
 Did sealing material rise to surface? Yes No N/A
 Did material settle after 24 hours? Yes No N/A
 If yes, was hole retopped? Yes No N/A
 If bentonite chips were used, were they hydrated with water from a known safe source? Yes No N/A

Formation Type:
 Unconsolidated Formation Bedrock

Required Method of Placing Sealing Material
 Conductor Pipe-Gravity Conductor Pipe-Pumped
 Screened & Poured (Bentonite Chips) Other (Explain): Gravity

Total Well Depth From Ground Surface (ft.): 20 Casing Diameter (in.): _____

Lower Drillhole Diameter (in.): 1.25 Casing Depth (ft.): _____

Sealing Materials
 Neat Cement Grout Concrete
 Sand-Cement (Concrete) Grout Bentonite Chips

Was well annular space grouted? Yes No Unknown

For Monitoring Wells and Monitoring Well Boreholes Only:
 Bentonite Chips Bentonite - Cement Grout
 Granular Bentonite Bentonite - Sand Slurry

If yes, to what depth (feet)? _____ Depth to Water (feet): 8

5. Material Used to Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	20	0.75	

Chipped Bentonite

6. Comments

Temporary injection point- driven and removed

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)	Date Received	Noted By
On-Site Environmental		10/08/2019 to 10/14/2019		
Street or Route: P.O. Box 280	City: Sun Prairie	State: WI	ZIP Code: 53590	Telephone Number: (608) 837-8992
Signature of Person Doing Work: Prepared by GZA, provided field oversight			Date Signed	

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information **2. Facility / Owner Information**

County: Walworth WI Unique Well # of Removed Well: _____ Hicap #: INJ-21

Facility Name: Former Trent Tube Plant No.1

Latitude / Longitude (see instructions): 42.78116 N, -88.40440 W
 Format Code: DD, DDM
 Method Code: GPS008, SCR002, OTH001

Facility ID (FID or PWS): 265097030

¼ / ¼ SW, ¼ NW, Section 29, Township 4 N, Range E, W

License/Permit/Monitoring #

Well Street Address: 2188 Church Street

Original Well Owner

Well City, Village or Town: East Troy, WI Well ZIP Code: 53120

Present Well Owner

Subdivision Name Lot #

Mailing Address of Present Owner

Reason for Removal from Service: Temporary Injection Point WI Unique Well # of Replacement Well: _____

City of Present Owner State ZIP Code

3. Filled & Sealed Well / Drillhole / Borehole Information

4. Pump, Liner, Screen, Casing & Sealing Material

Monitoring Well Original Construction Date (mm/dd/yyyy): 10/8/2019 to 10/14/2019
 Water Well
 Borehole / Drillhole If a Well Construction Report is available, please attach.

Pump and piping removed? Yes No N/A
 Liner(s) removed? Yes No N/A
 Liner(s) perforated? Yes No N/A
 Screen removed? Yes No N/A
 Casing left in place? Yes No N/A

Construction Type:
 Drilled Driven (Sandpoint) Dug
 Other (specify): GeoProbe

Was casing cut off below surface? Yes No N/A
 Did sealing material rise to surface? Yes No N/A
 Did material settle after 24 hours? Yes No N/A
 If yes, was hole retopped? Yes No N/A
 If bentonite chips were used, were they hydrated with water from a known safe source? Yes No N/A

Formation Type:
 Unconsolidated Formation Bedrock

Required Method of Placing Sealing Material:
 Conductor Pipe-Gravity Conductor Pipe-Pumped
 Screened & Poured (Bentonite Chips) Other (Explain): Gravity

Total Well Depth From Ground Surface (ft.): 20 Casing Diameter (in.): _____

Sealing Materials:
 Neat Cement Grout Concrete
 Sand-Cement (Concrete) Grout Bentonite Chips

Lower Drillhole Diameter (in.): 1.25 Casing Depth (ft.): _____

For Monitoring Wells and Monitoring Well Boreholes Only:
 Bentonite Chips Bentonite - Cement Grout
 Granular Bentonite Bentonite - Sand Slurry

Was well annular space grouted? Yes No Unknown

If yes, to what depth (feet)? Depth to Water (feet): 8

5. Material Used to Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	20	0.75	

Chipped Bentonite

6. Comments

Temporary injection point- driven and removed

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing: On-Site Environmental	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy): 10/08/2019 to 10/14/2019	Date Received	Noted By
Street or Route: P.O. Box 280	Telephone Number: (608) 837-8992	Comments		
City: Sun Prairie	State: WI	ZIP Code: 53590	Signature of Person Doing Work: Prepared by GZA, provided field oversight	Date Signed

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information **2. Facility / Owner Information**

County Walworth		WI Unique Well # of Removed Well _____		Hicap # INJ-22	
Latitude / Longitude (see instructions) 42.78116 N -88.40440 W		Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input checked="" type="checkbox"/> SCR002 <input type="checkbox"/> OTH001	
¼ / ¼ SW or Gov't Lot #	¼ NW	Section 29	Township 4 N	Range <input checked="" type="checkbox"/> E <input type="checkbox"/> W	
Well Street Address 2188 Church Street					
Well City, Village or Town East Troy, WI			Well ZIP Code 53120		
Subdivision Name			Lot #		

Facility Name Former Trent Tube Plant No.1		
Facility ID (FID or PWS) 265097030		
License/Permit/Monitoring #		
Original Well Owner		
Present Well Owner		
Mailing Address of Present Owner		
City of Present Owner	State	ZIP Code

3. Filled & Sealed Well / Drillhole / Borehole Information

Reason for Removal from Service Temporary Injection Point		WI Unique Well # of Replacement Well _____	
<input type="checkbox"/> Monitoring Well		Original Construction Date (mm/dd/yyyy) 10/8/2019 to 10/14/2019	
<input type="checkbox"/> Water Well		If a Well Construction Report is available, please attach.	
<input checked="" type="checkbox"/> Borehole / Drillhole			
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): <u>GeoProbe</u>			
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock			
Total Well Depth From Ground Surface (ft.) 20		Casing Diameter (in.)	
Lower Drillhole Diameter (in.) 1.25		Casing Depth (ft.)	
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown			
If yes, to what depth (feet)?		Depth to Water (feet) 8	

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) perforated?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
If bentonite chips were used, were they hydrated with water from a known safe source? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Required Method of Placing Sealing Material			
<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped			
<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): <u>Gravity</u>			
Sealing Materials			
<input type="checkbox"/> Neat Cement Grout		<input type="checkbox"/> Concrete	
<input type="checkbox"/> Sand-Cement (Concrete) Grout		<input checked="" type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only:			
<input type="checkbox"/> Bentonite Chips		<input type="checkbox"/> Bentonite - Cement Grout	
<input type="checkbox"/> Granular Bentonite		<input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Chipped Bentonite	Surface	20	0.75	

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	20	0.75	

6. Comments

Temporary injection point- driven and removed

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing On-Site Environmental		License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 10/08/2019 to 10/14/2019	Date Received	Noted By
Street or Route P.O. Box 280			Telephone Number (608) 837-8992	Comments	
City Sun Prairie	State WI	ZIP Code 53590	Signature of Person Doing Work Prepared by GZA, provided field oversight	Date Signed	

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information **2. Facility / Owner Information**

County Walworth		WI Unique Well # of Removed Well _____		Hicap # INJ-23	
Latitude / Longitude (see instructions) 42.78116 N -88.40440 W		Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input checked="" type="checkbox"/> SCR002 <input type="checkbox"/> OTH001	
¼ / ¼ SW or Gov't Lot #	¼ NW	Section 29	Township 4 N	Range <input checked="" type="checkbox"/> E <input type="checkbox"/> W	
Well Street Address 2188 Church Street					
Well City, Village or Town East Troy, WI			Well ZIP Code 53120		
Subdivision Name			Lot #		

Facility Name Former Trent Tube Plant No.1		
Facility ID (FID or PWS) 265097030		
License/Permit/Monitoring #		
Original Well Owner		
Present Well Owner		
Mailing Address of Present Owner		
City of Present Owner	State	ZIP Code

3. Filled & Sealed Well / Drillhole / Borehole Information

Reason for Removal from Service Temporary Injection Point		WI Unique Well # of Replacement Well _____	
<input type="checkbox"/> Monitoring Well		Original Construction Date (mm/dd/yyyy) 10/8/2019 to 10/14/2019	
<input type="checkbox"/> Water Well		If a Well Construction Report is available, please attach.	
<input checked="" type="checkbox"/> Borehole / Drillhole			
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): <u>GeoProbe</u>			
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock			
Total Well Depth From Ground Surface (ft.) 20		Casing Diameter (in.)	
Lower Drillhole Diameter (in.) 1.25		Casing Depth (ft.)	
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown			
If yes, to what depth (feet)?		Depth to Water (feet) 8	

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) perforated?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
If bentonite chips were used, were they hydrated with water from a known safe source? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Required Method of Placing Sealing Material			
<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped			
<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): <u>Gravity</u>			
Sealing Materials			
<input type="checkbox"/> Neat Cement Grout		<input type="checkbox"/> Concrete	
<input type="checkbox"/> Sand-Cement (Concrete) Grout		<input checked="" type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only:			
<input type="checkbox"/> Bentonite Chips		<input type="checkbox"/> Bentonite - Cement Grout	
<input type="checkbox"/> Granular Bentonite		<input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Chipped Bentonite	Surface	20	0.75	

6. Comments

Temporary injection point- driven and removed

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing On-Site Environmental		License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 10/08/2019 to 10/14/2019	Date Received	Noted By
Street or Route P.O. Box 280			Telephone Number (608) 837-8992	Comments	
City Sun Prairie	State WI	ZIP Code 53590	Signature of Person Doing Work Prepared by GZA, provided field oversight		Date Signed

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Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information **2. Facility / Owner Information**

County Walworth	WI Unique Well # of Removed Well _____	Hicap # INJ-24
Latitude / Longitude (see instructions) 42.78116 N -88.40440 W	Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM	Method Code <input type="checkbox"/> GPS008 <input checked="" type="checkbox"/> SCR002 <input type="checkbox"/> OTH001
¼ / ¼ SW or Gov't Lot #	¼ NW	Section 29
Well Street Address 2188 Church Street		Township 4 N
Well City, Village or Town East Troy, WI		Range <input checked="" type="checkbox"/> E <input type="checkbox"/> W
Subdivision Name		Well ZIP Code 53120
Reason for Removal from Service Temporary Injection Point		Lot #
WI Unique Well # of Replacement Well _____		City of Present Owner

Facility Name Former Trent Tube Plant No.1
Facility ID (FID or PWS) 265097030
License/Permit/Monitoring #
Original Well Owner
Present Well Owner
Mailing Address of Present Owner
State
ZIP Code

3. Filled & Sealed Well / Drillhole / Borehole Information

<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) 10/8/2019 to 10/14/2019
<input type="checkbox"/> Water Well	
<input checked="" type="checkbox"/> Borehole / Drillhole	If a Well Construction Report is available, please attach.
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): <u>GeoProbe</u>	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	
Total Well Depth From Ground Surface (ft.) 20	Casing Diameter (in.)
Lower Drillhole Diameter (in.) 1.25	Casing Depth (ft.)
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
If yes, to what depth (feet)?	Depth to Water (feet) 8

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) perforated?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Required Method of Placing Sealing Material			
<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped			
<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): <u>Gravity</u>			
Sealing Materials			
<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete			
<input type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Bentonite Chips			
For Monitoring Wells and Monitoring Well Boreholes Only:			
<input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout			
<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry			

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Chipped Bentonite	Surface	20	0.75	

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	20	0.75	

6. Comments

Temporary injection point- driven and removed

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing On-Site Environmental	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 10/08/2019 to 10/14/2019	Date Received	Noted By
Street or Route P.O. Box 280		Telephone Number (608) 837-8992	Comments	
City Sun Prairie	State WI	ZIP Code 53590	Signature of Person Doing Work Prepared by GZA, provided field oversight	Date Signed

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Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information **2. Facility / Owner Information**

County Walworth		WI Unique Well # of Removed Well _____		Hicap # INJ-25	
Latitude / Longitude (see instructions) 42.78116 N -88.40440 W		Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input checked="" type="checkbox"/> SCR002 <input type="checkbox"/> OTH001	
¼ / ¼ SW or Gov't Lot #	¼ NW	Section 29	Township 4 N	Range <input checked="" type="checkbox"/> E <input type="checkbox"/> W	
Well Street Address 2188 Church Street					
Well City, Village or Town East Troy, WI			Well ZIP Code 53120		
Subdivision Name			Lot #		

Facility Name Former Trent Tube Plant No.1		
Facility ID (FID or PWS) 265097030		
License/Permit/Monitoring #		
Original Well Owner		
Present Well Owner		
Mailing Address of Present Owner		
City of Present Owner	State	ZIP Code

3. Filled & Sealed Well / Drillhole / Borehole Information

Reason for Removal from Service Temporary Injection Point		WI Unique Well # of Replacement Well _____	
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Original Construction Date (mm/dd/yyyy) 10/8/2019 to 10/14/2019	
If a Well Construction Report is available, please attach.			
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): <u>GeoProbe</u>			
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock			
Total Well Depth From Ground Surface (ft.) 20		Casing Diameter (in.)	
Lower Drillhole Diameter (in.) 1.25		Casing Depth (ft.)	
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown			
If yes, to what depth (feet)?		Depth to Water (feet) 8	

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) perforated?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
If bentonite chips were used, were they hydrated with water from a known safe source? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Required Method of Placing Sealing Material			
<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): <u>Gravity</u>			
Sealing Materials			
<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Bentonite Chips			
For Monitoring Wells and Monitoring Well Boreholes Only:			
<input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry			

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Chipped Bentonite	Surface	20	0.75	

6. Comments

Temporary injection point- driven and removed

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing On-Site Environmental		License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 10/08/2019 to 10/14/2019	Date Received	Noted By
Street or Route P.O. Box 280			Telephone Number (608) 837-8992	Comments	
City Sun Prairie	State WI	ZIP Code 53590	Signature of Person Doing Work Prepared by GZA, provided field oversight		Date Signed

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Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information **2. Facility / Owner Information**

County Walworth		WI Unique Well # of Removed Well _____		Hicap # INJ-26	
Latitude / Longitude (see instructions) 42.78116 N -88.40440 W		Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input checked="" type="checkbox"/> SCR002 <input type="checkbox"/> OTH001	
¼ / ¼ SW or Gov't Lot #	¼ NW	Section 29	Township 4 N	Range <input checked="" type="checkbox"/> E <input type="checkbox"/> W	
Well Street Address 2188 Church Street					
Well City, Village or Town East Troy, WI			Well ZIP Code 53120		
Subdivision Name			Lot #		

Facility Name Former Trent Tube Plant No.1		
Facility ID (FID or PWS) 265097030		
License/Permit/Monitoring #		
Original Well Owner		
Present Well Owner		
Mailing Address of Present Owner		
City of Present Owner	State	ZIP Code

3. Filled & Sealed Well / Drillhole / Borehole Information

Reason for Removal from Service Temporary Injection Point		WI Unique Well # of Replacement Well _____	
<input type="checkbox"/> Monitoring Well		Original Construction Date (mm/dd/yyyy) 10/8/2019 to 10/14/2019	
<input type="checkbox"/> Water Well		If a Well Construction Report is available, please attach.	
<input checked="" type="checkbox"/> Borehole / Drillhole			
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): <u>GeoProbe</u>			
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock			
Total Well Depth From Ground Surface (ft.) 20		Casing Diameter (in.)	
Lower Drillhole Diameter (in.) 1.25		Casing Depth (ft.)	
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown			
If yes, to what depth (feet)?		Depth to Water (feet) 8	

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) perforated?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
If bentonite chips were used, were they hydrated with water from a known safe source? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Required Method of Placing Sealing Material			
<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped			
<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): <u>Gravity</u>			
Sealing Materials			
<input type="checkbox"/> Neat Cement Grout		<input type="checkbox"/> Concrete	
<input type="checkbox"/> Sand-Cement (Concrete) Grout		<input checked="" type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only:			
<input type="checkbox"/> Bentonite Chips		<input type="checkbox"/> Bentonite - Cement Grout	
<input type="checkbox"/> Granular Bentonite		<input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Chipped Bentonite	Surface	20	0.75	

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	20	0.75	

6. Comments

Temporary injection point- driven and removed

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing On-Site Environmental		License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 10/08/2019 to 10/14/2019	Date Received	Noted By
Street or Route P.O. Box 280			Telephone Number (608) 837-8992	Comments	
City Sun Prairie	State WI	ZIP Code 53590	Signature of Person Doing Work Prepared by GZA, provided field oversight		Date Signed

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Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information **2. Facility / Owner Information**

County: Walworth WI Unique Well # of Removed Well: _____ Hicap #: INJ-27

Facility Name: Former Trent Tube Plant No.1

Latitude / Longitude (see instructions): 42.78116 N, -88.40440 W
 Format Code: DD, DDM
 Method Code: GPS008, SCR002, OTH001

Facility ID (FID or PWS): 265097030

¼ / ¼ SW, ¼ NW, Section 29, Township 4 N, Range E, W

License/Permit/Monitoring #

Well Street Address: 2188 Church Street

Original Well Owner

Well City, Village or Town: East Troy, WI Well ZIP Code: 53120

Present Well Owner

Subdivision Name: _____ Lot #: _____

Mailing Address of Present Owner

Reason for Removal from Service: Temporary Injection Point WI Unique Well # of Replacement Well: _____

City of Present Owner: _____ State: _____ ZIP Code: _____

3. Filled & Sealed Well / Drillhole / Borehole Information

4. Pump, Liner, Screen, Casing & Sealing Material

Monitoring Well Original Construction Date (mm/dd/yyyy): 10/8/2019 to 10/14/2019
 Water Well
 Borehole / Drillhole If a Well Construction Report is available, please attach.

- Pump and piping removed? Yes No N/A
 Liner(s) removed? Yes No N/A
 Liner(s) perforated? Yes No N/A
 Screen removed? Yes No N/A
 Casing left in place? Yes No N/A

Construction Type:
 Drilled Driven (Sandpoint) Dug
 Other (specify): GeoProbe

- Was casing cut off below surface? Yes No N/A
 Did sealing material rise to surface? Yes No N/A
 Did material settle after 24 hours? Yes No N/A
 If yes, was hole retopped? Yes No N/A
 If bentonite chips were used, were they hydrated with water from a known safe source? Yes No N/A

Formation Type:
 Unconsolidated Formation Bedrock

Required Method of Placing Sealing Material:
 Conductor Pipe-Gravity Conductor Pipe-Pumped
 Screened & Poured (Bentonite Chips) Other (Explain): Gravity

Total Well Depth From Ground Surface (ft.): 20 Casing Diameter (in.): _____

Sealing Materials:
 Neat Cement Grout Concrete
 Sand-Cement (Concrete) Grout Bentonite Chips

Lower Drillhole Diameter (in.): 1.25 Casing Depth (ft.): _____

For Monitoring Wells and Monitoring Well Boreholes Only:
 Bentonite Chips Bentonite - Cement Grout
 Granular Bentonite Bentonite - Sand Slurry

Was well annular space grouted? Yes No Unknown

If yes, to what depth (feet)? _____ Depth to Water (feet): 8

5. Material Used to Fill Well / Drillhole

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	20	0.75	

Chipped Bentonite

6. Comments

Temporary injection point- driven and removed

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy)	Date Received	Noted By
On-Site Environmental		10/08/2019 to 10/14/2019		
Street or Route: P.O. Box 280	City: Sun Prairie	State: WI	ZIP Code: 53590	Telephone Number: (608) 837-8992
Signature of Person Doing Work: Prepared by GZA, provided field oversight			Date Signed	

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information **2. Facility / Owner Information**

County: Walworth WI Unique Well # of Removed Well: _____ Hicap #: INJ-28

Facility Name: Former Trent Tube Plant No.1

Latitude / Longitude (see instructions): 42.78116 N, -88.40440 W
 Format Code: DD, DDM
 Method Code: GPS008, SCR002, OTH001

Facility ID (FID or PWS): 265097030

¼ / ¼ SW, ¼ NW, Section 29, Township 4 N, Range E, W

License/Permit/Monitoring #

Well Street Address: 2188 Church Street

Original Well Owner

Well City, Village or Town: East Troy, WI Well ZIP Code: 53120

Present Well Owner

Subdivision Name: _____ Lot #: _____

Mailing Address of Present Owner

Reason for Removal from Service: Temporary Injection Point WI Unique Well # of Replacement Well: _____

3. Filled & Sealed Well / Drillhole / Borehole Information

4. Pump, Liner, Screen, Casing & Sealing Material

Monitoring Well Original Construction Date (mm/dd/yyyy): 10/8/2019 to 10/14/2019
 Water Well
 Borehole / Drillhole If a Well Construction Report is available, please attach.

- Pump and piping removed? Yes No N/A
 Liner(s) removed? Yes No N/A
 Liner(s) perforated? Yes No N/A
 Screen removed? Yes No N/A
 Casing left in place? Yes No N/A

Construction Type:
 Drilled Driven (Sandpoint) Dug
 Other (specify): GeoProbe

- Was casing cut off below surface? Yes No N/A
 Did sealing material rise to surface? Yes No N/A
 Did material settle after 24 hours? Yes No N/A
 If yes, was hole retopped? Yes No N/A
 If bentonite chips were used, were they hydrated with water from a known safe source? Yes No N/A

Formation Type:
 Unconsolidated Formation Bedrock

Required Method of Placing Sealing Material
 Conductor Pipe-Gravity Conductor Pipe-Pumped
 Screened & Poured (Bentonite Chips) Other (Explain): Gravity

Total Well Depth From Ground Surface (ft.): 20 Casing Diameter (in.): _____

Lower Drillhole Diameter (in.): 1.25 Casing Depth (ft.): _____

Sealing Materials
 Neat Cement Grout Concrete
 Sand-Cement (Concrete) Grout Bentonite Chips

Was well annular space grouted? Yes No Unknown

If yes, to what depth (feet)? _____ Depth to Water (feet): 8

For Monitoring Wells and Monitoring Well Boreholes Only:
 Bentonite Chips Bentonite - Cement Grout
 Granular Bentonite Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Chipped Bentonite	Surface	20	0.75	

6. Comments

Temporary injection point- driven and removed

7. Supervision of Work **DNR Use Only**

Supervision of Work			DNR Use Only	
Name of Person or Firm Doing Filling & Sealing On-Site Environmental	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 10/08/2019 to 10/14/2019	Date Received	Noted By
Street or Route P.O. Box 280	Telephone Number (608) 837-8992	Comments		
City Sun Prairie	State WI	ZIP Code 53590	Signature of Person Doing Work Prepared by GZA, provided field oversight	Date Signed

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information **2. Facility / Owner Information**

County Walworth	WI Unique Well # of Removed Well _____	Hicap # INJ-29
Latitude / Longitude (see instructions) 42.78116 N -88.40440 W	Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM	Method Code <input type="checkbox"/> GPS008 <input checked="" type="checkbox"/> SCR002 <input type="checkbox"/> OTH001
¼ / ¼ SW or Gov't Lot #	¼ NW	Section 29
Well Street Address 2188 Church Street		Township 4 N
Well City, Village or Town East Troy, WI		Range <input checked="" type="checkbox"/> E <input type="checkbox"/> W
Subdivision Name		Well ZIP Code 53120
Reason for Removal from Service Temporary Injection Point		Lot #
WI Unique Well # of Replacement Well _____		City of Present Owner

Facility Name Former Trent Tube Plant No.1
Facility ID (FID or PWS) 265097030
License/Permit/Monitoring #
Original Well Owner
Present Well Owner
Mailing Address of Present Owner
City of Present Owner
State
ZIP Code

3. Filled & Sealed Well / Drillhole / Borehole Information

<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) 10/8/2019 to 10/14/2019
<input type="checkbox"/> Water Well	If a Well Construction Report is available, please attach.
<input checked="" type="checkbox"/> Borehole / Drillhole	
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): <u>GeoProbe</u>	
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	
Total Well Depth From Ground Surface (ft.) 20	Casing Diameter (in.)
Lower Drillhole Diameter (in.) 1.25	Casing Depth (ft.)
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
If yes, to what depth (feet)?	Depth to Water (feet) 8

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) perforated?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Required Method of Placing Sealing Material	
<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped	
<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): <u>Gravity</u>	
Sealing Materials	
<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete	
<input type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Bentonite Chips	
<i>For Monitoring Wells and Monitoring Well Boreholes Only:</i>	
<input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout	
<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Chipped Bentonite	Surface	20	0.75	

6. Comments

Temporary injection point- driven and removed

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing On-Site Environmental	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 10/08/2019 to 10/14/2019	DNR Use Only	
			Date Received	Noted By
Street or Route P.O. Box 280		Telephone Number (608) 837-8992	Comments	
City Sun Prairie	State WI	ZIP Code 53590	Signature of Person Doing Work Prepared by GZA, provided field oversight	Date Signed

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information **2. Facility / Owner Information**

County Walworth		WI Unique Well # of Removed Well _____		Hicap # INJ-30	
Latitude / Longitude (see instructions) 42.78116 N -88.40440 W		Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input checked="" type="checkbox"/> SCR002 <input type="checkbox"/> OTH001	
¼ / ¼ SW or Gov't Lot #	¼ NW	Section 29	Township 4 N	Range <input checked="" type="checkbox"/> E <input type="checkbox"/> W	
Well Street Address 2188 Church Street					
Well City, Village or Town East Troy, WI			Well ZIP Code 53120		
Subdivision Name			Lot #		

Facility Name Former Trent Tube Plant No.1		
Facility ID (FID or PWS) 265097030		
License/Permit/Monitoring #		
Original Well Owner		
Present Well Owner		
Mailing Address of Present Owner		
City of Present Owner	State	ZIP Code

Reason for Removal from Service
Temporary Injection Point

WI Unique Well # of Replacement Well

3. Filled & Sealed Well / Drillhole / Borehole Information

<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) 10/8/2019 to 10/14/2019
<input type="checkbox"/> Water Well	
<input checked="" type="checkbox"/> Borehole / Drillhole	If a Well Construction Report is available, please attach.

Construction Type:

Drilled Driven (Sandpoint) Dug
 Other (specify): GeoProbe

Formation Type:

Unconsolidated Formation Bedrock

Total Well Depth From Ground Surface (ft.) 20	Casing Diameter (in.)
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Lower Drillhole Diameter (in.) 1.25	Casing Depth (ft.)
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Was well annular space grouted? Yes No Unknown

If yes, to what depth (feet)?	Depth to Water (feet) 8
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4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) perforated?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
If bentonite chips were used, were they hydrated with water from a known safe source? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			

Required Method of Placing Sealing Material

Conductor Pipe-Gravity Conductor Pipe-Pumped
 Screened & Poured (Bentonite Chips) Other (Explain): Gravity

Sealing Materials

Neat Cement Grout Concrete
 Sand-Cement (Concrete) Grout Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:

Bentonite Chips Bentonite - Cement Grout
 Granular Bentonite Bentonite - Sand Slurry

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Chipped Bentonite	Surface	20	0.75	

6. Comments

Temporary injection point- driven and removed

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing On-Site Environmental	License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 10/08/2019 to 10/14/2019	Date Received	Noted By
Street or Route P.O. Box 280		Telephone Number (608) 837-8992	Comments	
City Sun Prairie	State WI	ZIP Code 53590	Signature of Person Doing Work Prepared by GZA, provided field oversight	Date Signed

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information **2. Facility / Owner Information**

County Walworth		WI Unique Well # of Removed Well _____		Hicap # INJ-31	
Latitude / Longitude (see instructions) 42.78116 N -88.40440 W		Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input checked="" type="checkbox"/> SCR002 <input type="checkbox"/> OTH001	
¼ / ¼ SW or Gov't Lot #	¼ NW	Section 29	Township 4 N	Range <input checked="" type="checkbox"/> E <input type="checkbox"/> W	
Well Street Address 2188 Church Street					
Well City, Village or Town East Troy, WI			Well ZIP Code 53120		
Subdivision Name			Lot #		

Facility Name Former Trent Tube Plant No.1		
Facility ID (FID or PWS) 265097030		
License/Permit/Monitoring #		
Original Well Owner		
Present Well Owner		
Mailing Address of Present Owner		
City of Present Owner	State	ZIP Code

3. Filled & Sealed Well / Drillhole / Borehole Information

Reason for Removal from Service Temporary Injection Point		WI Unique Well # of Replacement Well _____	
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Original Construction Date (mm/dd/yyyy) 10/8/2019 to 10/14/2019	
If a Well Construction Report is available, please attach.			
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): <u>GeoProbe</u>			
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock			
Total Well Depth From Ground Surface (ft.) 20		Casing Diameter (in.)	
Lower Drillhole Diameter (in.) 1.25		Casing Depth (ft.)	
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown			
If yes, to what depth (feet)?		Depth to Water (feet) 8	

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) perforated?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
If bentonite chips were used, were they hydrated with water from a known safe source? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Required Method of Placing Sealing Material			
<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): <u>Gravity</u>			
Sealing Materials			
<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Concrete <input type="checkbox"/> Sand-Cement (Concrete) Grout <input checked="" type="checkbox"/> Bentonite Chips			
<i>For Monitoring Wells and Monitoring Well Boreholes Only:</i>			
<input type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout <input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry			

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Chipped Bentonite	Surface	20	0.75	

6. Comments

Temporary injection point- driven and removed

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing On-Site Environmental		License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 10/08/2019 to 10/14/2019	Date Received	Noted By
Street or Route P.O. Box 280			Telephone Number (608) 837-8992	Comments	
City Sun Prairie	State WI	ZIP Code 53590	Signature of Person Doing Work Prepared by GZA, provided field oversight		Date Signed

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information **2. Facility / Owner Information**

County Walworth		WI Unique Well # of Removed Well _____		Hicap # INJ-32	
Latitude / Longitude (see instructions) 42.78116 N -88.40440 W		Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input checked="" type="checkbox"/> SCR002 <input type="checkbox"/> OTH001	
¼ / ¼ SW or Gov't Lot #	¼ NW	Section 29	Township 4 N	Range <input checked="" type="checkbox"/> E <input type="checkbox"/> W	
Well Street Address 2188 Church Street					
Well City, Village or Town East Troy, WI			Well ZIP Code 53120		
Subdivision Name			Lot #		

Facility Name Former Trent Tube Plant No.1		
Facility ID (FID or PWS) 265097030		
License/Permit/Monitoring #		
Original Well Owner		
Present Well Owner		
Mailing Address of Present Owner		
City of Present Owner	State	ZIP Code

3. Filled & Sealed Well / Drillhole / Borehole Information

Reason for Removal from Service Temporary Injection Point		WI Unique Well # of Replacement Well _____	
<input type="checkbox"/> Monitoring Well		Original Construction Date (mm/dd/yyyy) 10/8/2019 to 10/14/2019	
<input type="checkbox"/> Water Well		If a Well Construction Report is available, please attach.	
<input checked="" type="checkbox"/> Borehole / Drillhole			
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): <u>GeoProbe</u>			
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock			
Total Well Depth From Ground Surface (ft.) 20		Casing Diameter (in.)	
Lower Drillhole Diameter (in.) 1.25		Casing Depth (ft.)	
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown			
If yes, to what depth (feet)?		Depth to Water (feet) 8	

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) perforated?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
If bentonite chips were used, were they hydrated with water from a known safe source? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Required Method of Placing Sealing Material			
<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped			
<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): <u>Gravity</u>			
Sealing Materials			
<input type="checkbox"/> Neat Cement Grout		<input type="checkbox"/> Concrete	
<input type="checkbox"/> Sand-Cement (Concrete) Grout		<input checked="" type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only:			
<input type="checkbox"/> Bentonite Chips		<input type="checkbox"/> Bentonite - Cement Grout	
<input type="checkbox"/> Granular Bentonite		<input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Chipped Bentonite	Surface	20	0.75	

From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Surface	20	0.75	

6. Comments

Temporary injection point- driven and removed

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing On-Site Environmental		License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 10/08/2019 to 10/14/2019	Date Received	Noted By
Street or Route P.O. Box 280			Telephone Number (608) 837-8992	Comments	
City Sun Prairie	State WI	ZIP Code 53590	Signature of Person Doing Work Prepared by GZA, provided field oversight	Date Signed	

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and chs. NR 141 and 812, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to DNR Bureau:

- Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information **2. Facility / Owner Information**

County Walworth		WI Unique Well # of Removed Well _____		Hicap # INJ-33	
Latitude / Longitude (see instructions) 42.78116 N -88.40440 W		Format Code <input checked="" type="checkbox"/> DD <input type="checkbox"/> DDM		Method Code <input type="checkbox"/> GPS008 <input checked="" type="checkbox"/> SCR002 <input type="checkbox"/> OTH001	
¼ / ¼ SW or Gov't Lot #	¼ NW	Section 29	Township 4 N	Range <input checked="" type="checkbox"/> E <input type="checkbox"/> W	
Well Street Address 2188 Church Street					
Well City, Village or Town East Troy, WI			Well ZIP Code 53120		
Subdivision Name			Lot #		

Facility Name Former Trent Tube Plant No.1			
Facility ID (FID or PWS) 265097030			
License/Permit/Monitoring #			
Original Well Owner			
Present Well Owner			
Mailing Address of Present Owner			
City of Present Owner		State	ZIP Code

3. Filled & Sealed Well / Drillhole / Borehole Information

Reason for Removal from Service Temporary Injection Point		WI Unique Well # of Replacement Well _____	
<input type="checkbox"/> Monitoring Well <input type="checkbox"/> Water Well <input checked="" type="checkbox"/> Borehole / Drillhole		Original Construction Date (mm/dd/yyyy) 10/8/2019 to 10/14/2019	
If a Well Construction Report is available, please attach.			
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): <u>GeoProbe</u>			
Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock			
Total Well Depth From Ground Surface (ft.) 20		Casing Diameter (in.)	
Lower Drillhole Diameter (in.) 1.25		Casing Depth (ft.)	
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown			
If yes, to what depth (feet)?		Depth to Water (feet) 8	

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Liner(s) perforated?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
If bentonite chips were used, were they hydrated with water from a known safe source? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Required Method of Placing Sealing Material			
<input type="checkbox"/> Conductor Pipe-Gravity		<input type="checkbox"/> Conductor Pipe-Pumped	
<input type="checkbox"/> Screened & Poured (Bentonite Chips)		<input checked="" type="checkbox"/> Other (Explain): <u>Gravity</u>	
Sealing Materials			
<input type="checkbox"/> Neat Cement Grout		<input type="checkbox"/> Concrete	
<input type="checkbox"/> Sand-Cement (Concrete) Grout		<input checked="" type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only:			
<input type="checkbox"/> Bentonite Chips		<input type="checkbox"/> Bentonite - Cement Grout	
<input type="checkbox"/> Granular Bentonite		<input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used to Fill Well / Drillhole

	From (ft.)	To (ft.)	No. Yards, Sacks Sealant or Volume (circle one)	Mix Ratio or Mud Weight
Chipped Bentonite	Surface	20	0.75	

6. Comments

Temporary injection point- driven and removed

7. Supervision of Work **DNR Use Only**

Name of Person or Firm Doing Filling & Sealing On-Site Environmental		License #	Date of Filling & Sealing or Verification (mm/dd/yyyy) 10/08/2019 to 10/14/2019	Date Received	Noted By
Street or Route P.O. Box 280			Telephone Number (608) 837-8992	Comments	
City Sun Prairie	State WI	ZIP Code 53590	Signature of Person Doing Work Prepared by GZA, provided field oversight		Date Signed



APPENDIX D

POST-INJECTION GROUNDWATER LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY FORMS

December 05, 2019

Kevin Hedinger
GZA
20900 Swenson Drive
Suite 150
Waukesha, WI 53186

RE: Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

Dear Kevin Hedinger:

Enclosed are the analytical results for sample(s) received by the laboratory on November 22, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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CERTIFICATIONS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199775

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40199775001	MW-1R	Water	11/20/19 10:14	11/22/19 08:55
40199775002	OP-14	Water	11/20/19 11:11	11/22/19 08:55
40199775003	MW-2	Water	11/20/19 10:21	11/22/19 08:55
40199775004	MW-4	Water	11/20/19 11:08	11/22/19 08:55
40199775005	MW-42	Water	11/20/19 12:03	11/22/19 08:55
40199775006	OP-9	Water	11/20/19 14:03	11/22/19 08:55
40199775007	MW-38	Water	11/20/19 12:38	11/22/19 08:55
40199775008	MW-29	Water	11/20/19 08:23	11/22/19 08:55
40199775009	DUP	Water	11/20/19 00:00	11/22/19 08:55
40199775010	MW-40	Water	11/20/19 13:24	11/22/19 08:55
40199775011	MW-16	Water	11/20/19 12:37	11/22/19 08:55
40199775012	OP-2	Water	11/20/19 14:08	11/22/19 08:55
40199775013	MW-25	Water	11/20/19 08:50	11/22/19 08:55
40199775014	MW-27	Water	11/20/19 09:27	11/22/19 08:55
40199775015	MW-13R	Water	11/20/19 13:33	11/22/19 08:55
40199775016	MW-12	Water	11/20/19 14:33	11/22/19 08:55
40199775017	MW-41	Water	11/20/19 11:54	11/22/19 08:55
40199775018	OP-3	Water	11/20/19 14:50	11/22/19 08:55
40199775019	TRIP	Water	11/20/19 00:00	11/22/19 08:55

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40199775001	MW-1R	EPA 8015B Modified	ALD	3	PASI-G
		EPA 6010	TXW	2	PASI-G
		EPA 8260	HNW	64	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40199775002	OP-14	EPA 8015B Modified	ALD	3	PASI-G
		EPA 6010	TXW	2	PASI-G
		EPA 8260	HNW	64	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40199775003	MW-2	EPA 8015B Modified	ALD	3	PASI-G
		EPA 6010	TXW	2	PASI-G
		EPA 8260	HNW	64	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40199775004	MW-4	EPA 8015B Modified	ALD	3	PASI-G
		EPA 6010	TXW	2	PASI-G
		EPA 8260	HNW	64	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40199775005	MW-42	EPA 8015B Modified	ALD	3	PASI-G
		EPA 6010	TXW	2	PASI-G
		EPA 8260	HNW	64	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40199775006	OP-9	EPA 8015B Modified	ALD	3	PASI-G
		EPA 6010	TXW	2	PASI-G
		EPA 8260	HNW	64	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40199775007	MW-38	EPA 8015B Modified	ALD	3	PASI-G
		EPA 6010	TXW	2	PASI-G

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SAMPLE ANALYTE COUNT

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260	HNW	64	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
40199775008	MW-29	EPA 8260	HNW	64	PASI-G
40199775009	DUP	EPA 8015B Modified	ALD	3	PASI-G
		EPA 6010	TXW	2	PASI-G
		EPA 8260	HNW	64	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40199775010	MW-40	EPA 8015B Modified	ALD	3	PASI-G
		EPA 6010	TXW	2	PASI-G
		EPA 8260	HNW	64	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40199775011	MW-16	EPA 8015B Modified	ALD	3	PASI-G
		EPA 6010	TXW	2	PASI-G
		EPA 8260	HNW	64	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40199775012	OP-2	EPA 8015B Modified	ALD	3	PASI-G
		EPA 6010	TXW	2	PASI-G
		EPA 8260	HNW	64	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40199775013	MW-25	EPA 8260	HNW	64	PASI-G
40199775014	MW-27	EPA 8260	HNW	64	PASI-G
40199775015	MW-13R	EPA 8015B Modified	ALD	3	PASI-G
		EPA 6010	TXW	2	PASI-G
		EPA 8260	HNW	64	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40199775016	MW-12	EPA 8260	HNW	64	PASI-G

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SAMPLE ANALYTE COUNT

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40199775017	MW-41	EPA 8015B Modified	ALD	3	PASI-G
		EPA 6010	TXW	2	PASI-G
		EPA 8260	HNW	64	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40199775018	OP-3	EPA 8015B Modified	ALD	3	PASI-G
		EPA 6010	TXW	2	PASI-G
		EPA 8260	HNW	64	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40199775019	TRIP	EPA 8260	HNW	64	PASI-G

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199775

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40199775001	MW-1R					
EPA 6010	Manganese, Dissolved	79.6	ug/L	5.0	11/26/19 20:31	
EPA 8260	1,1,1-Trichloroethane	0.90J	ug/L	1.0	11/26/19 12:53	
EPA 8260	1,1-Dichloroethane	1.4	ug/L	1.0	11/26/19 12:53	
EPA 8260	Tetrachloroethene	0.49J	ug/L	1.1	11/26/19 12:53	
EPA 300.0	Sulfate	233	mg/L	40.0	12/04/19 11:43	
EPA 310.2	Alkalinity, Total as CaCO3	309	mg/L	23.5	12/03/19 12:21	
SM 5310C	Total Organic Carbon	5.7	mg/L	3.0	12/03/19 16:18	
40199775002	OP-14					
EPA 6010	Iron, Dissolved	601	ug/L	100	11/26/19 20:38	
EPA 6010	Manganese, Dissolved	27.0	ug/L	5.0	11/26/19 20:38	
EPA 8260	1,1,1-Trichloroethane	3.6J	ug/L	4.0	11/26/19 09:18	
EPA 8260	Tetrachloroethene	11.5	ug/L	4.4	11/26/19 09:18	
EPA 8260	Trichloroethene	914	ug/L	4.0	11/26/19 09:18	
EPA 8260	cis-1,2-Dichloroethene	13.1	ug/L	4.0	11/26/19 09:18	
EPA 300.0	Sulfate	88.5	mg/L	10.0	12/04/19 11:56	
EPA 310.2	Alkalinity, Total as CaCO3	395	mg/L	47.0	12/03/19 12:21	
SM 5310C	Total Organic Carbon	4.3	mg/L	1.5	12/03/19 17:42	
40199775003	MW-2					
EPA 6010	Manganese, Dissolved	9220	ug/L	5.0	11/26/19 20:40	
EPA 8260	Trichloroethene	240	ug/L	25.0	11/26/19 09:40	
EPA 8260	cis-1,2-Dichloroethene	1230	ug/L	25.0	11/26/19 09:40	
EPA 300.0	Sulfate	84.9	mg/L	20.0	12/04/19 12:49	
EPA 310.2	Alkalinity, Total as CaCO3	809	mg/L	117	12/03/19 13:02	
SM 5310C	Total Organic Carbon	171	mg/L	50.0	12/04/19 09:39	
40199775004	MW-4					
EPA 6010	Iron, Dissolved	246	ug/L	100	11/26/19 20:43	
EPA 6010	Manganese, Dissolved	1060	ug/L	5.0	11/26/19 20:43	
EPA 8260	1,1,1-Trichloroethane	2.4J	ug/L	2.5	11/26/19 10:01	
EPA 8260	Tetrachloroethene	2.5J	ug/L	2.7	11/26/19 10:01	
EPA 8260	Trichloroethene	132	ug/L	2.5	11/26/19 10:01	
EPA 8260	cis-1,2-Dichloroethene	5.2	ug/L	2.5	11/26/19 10:01	
EPA 300.0	Sulfate	41.0	mg/L	10.0	12/04/19 13:02	
EPA 310.2	Alkalinity, Total as CaCO3	270	mg/L	23.5	12/03/19 12:24	
SM 5310C	Total Organic Carbon	4.7	mg/L	0.50	12/03/19 19:07	
40199775005	MW-42					
EPA 6010	Iron, Dissolved	9760	ug/L	100	11/26/19 20:45	
EPA 6010	Manganese, Dissolved	1070	ug/L	5.0	11/26/19 20:45	
EPA 8260	Trichloroethene	4770	ug/L	100	11/26/19 17:30	
EPA 8260	cis-1,2-Dichloroethene	35.1J	ug/L	100	11/26/19 17:30	
EPA 300.0	Sulfate	48.1	mg/L	20.0	12/04/19 13:15	
EPA 310.2	Alkalinity, Total as CaCO3	585	mg/L	47.0	12/03/19 12:24	
SM 5310C	Total Organic Carbon	124	mg/L	30.0	12/04/19 10:00	
40199775006	OP-9					
EPA 8015B Modified	Ethane	18.8	ug/L	5.6	11/26/19 09:43	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40199775006	OP-9					
EPA 8015B Modified	Ethene	3.6J	ug/L	5.0	11/26/19 09:43	
EPA 8015B Modified	Methane	156	ug/L	2.8	11/26/19 09:43	
EPA 6010	Iron, Dissolved	8080	ug/L	100	11/26/19 20:48	
EPA 6010	Manganese, Dissolved	2610	ug/L	5.0	11/26/19 20:48	
EPA 8260	1,1-Dichloroethane	1.0	ug/L	1.0	11/26/19 13:14	
EPA 8260	1,1-Dichloroethene	1.4	ug/L	1.0	11/26/19 13:14	
EPA 8260	Trichloroethene	4.2	ug/L	1.0	11/26/19 13:14	
EPA 8260	Vinyl chloride	42.6	ug/L	1.0	11/26/19 13:14	
EPA 8260	cis-1,2-Dichloroethene	39.9	ug/L	1.0	11/26/19 13:14	
EPA 8260	trans-1,2-Dichloroethene	9.7	ug/L	3.6	11/26/19 13:14	
EPA 300.0	Sulfate	742	mg/L	40.0	12/04/19 13:29	
EPA 310.2	Alkalinity, Total as CaCO3	475	mg/L	47.0	12/03/19 12:25	
40199775007	MW-38					
EPA 8260	1,1,1-Trichloroethane	0.31J	ug/L	1.0	11/26/19 08:57	
EPA 8260	Trichloroethene	0.57J	ug/L	1.0	11/26/19 08:57	
EPA 300.0	Sulfate	92.4	mg/L	10.0	12/04/19 13:42	
EPA 310.2	Alkalinity, Total as CaCO3	207	mg/L	47.0	12/03/19 12:26	
40199775009	DUP					
EPA 8015B Modified	Ethane	7.3	ug/L	5.6	11/26/19 09:57	
EPA 8015B Modified	Ethene	7.7	ug/L	5.0	11/26/19 09:57	
EPA 8015B Modified	Methane	334	ug/L	5.6	11/26/19 12:27	
EPA 6010	Iron, Dissolved	498	ug/L	100	11/26/19 20:57	
EPA 6010	Manganese, Dissolved	166	ug/L	5.0	11/26/19 20:57	
EPA 8260	1,1,1-Trichloroethane	196	ug/L	5.0	11/26/19 10:44	
EPA 8260	1,1-Dichloroethane	93.7	ug/L	5.0	11/26/19 10:44	
EPA 8260	1,1-Dichloroethene	28.9	ug/L	5.0	11/26/19 10:44	
EPA 8260	Chloroethane	9.5J	ug/L	25.0	11/26/19 10:44	
EPA 8260	Trichloroethene	399	ug/L	5.0	11/26/19 10:44	
EPA 8260	Vinyl chloride	45.9	ug/L	5.0	11/26/19 10:44	
EPA 8260	cis-1,2-Dichloroethene	352	ug/L	5.0	11/26/19 10:44	
EPA 8260	trans-1,2-Dichloroethene	5.7J	ug/L	18.2	11/26/19 10:44	
EPA 300.0	Sulfate	37.9	mg/L	20.0	12/04/19 13:55	
EPA 310.2	Alkalinity, Total as CaCO3	406	mg/L	47.0	12/03/19 12:27	
SM 5310C	Total Organic Carbon	2.4	mg/L	0.50	12/03/19 19:48	
40199775010	MW-40					
EPA 8015B Modified	Methane	14.8	ug/L	2.8	11/26/19 10:04	
EPA 6010	Manganese, Dissolved	9.6	ug/L	5.0	11/26/19 21:00	
EPA 8260	1,1,1-Trichloroethane	10900	ug/L	100	11/26/19 11:05	
EPA 8260	1,1-Dichloroethane	336	ug/L	100	11/26/19 11:05	
EPA 8260	1,1-Dichloroethene	283	ug/L	100	11/26/19 11:05	
EPA 8260	Trichloroethene	231	ug/L	100	11/26/19 11:05	
EPA 8260	cis-1,2-Dichloroethene	739	ug/L	100	11/26/19 11:05	
EPA 300.0	Sulfate	62.2	mg/L	20.0	12/04/19 14:08	
EPA 310.2	Alkalinity, Total as CaCO3	443	mg/L	47.0	12/03/19 12:27	
SM 5310C	Total Organic Carbon	2.5	mg/L	1.0	12/03/19 20:09	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
40199775011	MW-16					
EPA 8015B Modified	Methane	22.6	ug/L	2.8	11/26/19 11:03	
EPA 6010	Iron, Dissolved	1110	ug/L	100	11/26/19 21:02	
EPA 6010	Manganese, Dissolved	75.4	ug/L	5.0	11/26/19 21:02	
EPA 8260	1,1,1-Trichloroethane	1080	ug/L	20.0	11/26/19 11:27	
EPA 8260	1,1-Dichloroethane	87.4	ug/L	20.0	11/26/19 11:27	
EPA 8260	1,1-Dichloroethene	13.8J	ug/L	20.0	11/26/19 11:27	
EPA 8260	Trichloroethene	33.8	ug/L	20.0	11/26/19 11:27	
EPA 8260	Vinyl chloride	9.8J	ug/L	20.0	11/26/19 11:27	
EPA 8260	cis-1,2-Dichloroethene	809	ug/L	20.0	11/26/19 11:27	
EPA 8260	trans-1,2-Dichloroethene	36.8J	ug/L	72.7	11/26/19 11:27	
EPA 300.0	Sulfate	62.4	mg/L	10.0	12/05/19 02:58	
EPA 310.2	Alkalinity, Total as CaCO ₃	431	mg/L	117	12/03/19 12:28	
SM 5310C	Total Organic Carbon	2.1	mg/L	0.50	12/03/19 20:30	
40199775012	OP-2					
EPA 6010	Manganese, Dissolved	2.0J	ug/L	5.0	11/26/19 21:05	
EPA 8260	1,1,1-Trichloroethane	167	ug/L	5.0	11/26/19 11:48	
EPA 8260	1,1-Dichloroethane	25.5	ug/L	5.0	11/26/19 11:48	
EPA 8260	1,1-Dichloroethene	6.9	ug/L	5.0	11/26/19 11:48	
EPA 8260	Trichloroethene	698	ug/L	5.0	11/26/19 11:48	
EPA 8260	Vinyl chloride	5.8	ug/L	5.0	11/26/19 11:48	
EPA 8260	cis-1,2-Dichloroethene	642	ug/L	5.0	11/26/19 11:48	
EPA 300.0	Sulfate	75.8	mg/L	10.0	12/04/19 14:35	
EPA 310.2	Alkalinity, Total as CaCO ₃	403	mg/L	47.0	12/03/19 12:31	
SM 5310C	Total Organic Carbon	2.3	mg/L	0.50	12/03/19 21:12	
40199775014	MW-27					
EPA 8260	Naphthalene	1.2J	ug/L	5.0	11/26/19 15:43	
EPA 8260	Vinyl chloride	0.30J	ug/L	1.0	11/26/19 15:43	
EPA 8260	cis-1,2-Dichloroethene	0.34J	ug/L	1.0	11/26/19 15:43	
40199775015	MW-13R					
EPA 8015B Modified	Ethane	6.3	ug/L	5.6	11/26/19 11:17	
EPA 8015B Modified	Methane	248	ug/L	5.6	11/26/19 12:34	
EPA 6010	Iron, Dissolved	5840	ug/L	100	11/26/19 21:07	
EPA 6010	Manganese, Dissolved	1100	ug/L	5.0	11/26/19 21:07	
EPA 8260	1,1-Dichloroethane	1.8	ug/L	1.0	11/26/19 16:05	
EPA 8260	Vinyl chloride	10.0	ug/L	1.0	11/26/19 16:05	
EPA 8260	cis-1,2-Dichloroethene	2.8	ug/L	1.0	11/26/19 16:05	
EPA 8260	trans-1,2-Dichloroethene	1.4J	ug/L	3.6	11/26/19 16:05	
EPA 300.0	Sulfate	102	mg/L	10.0	12/05/19 03:11	
EPA 310.2	Alkalinity, Total as CaCO ₃	522	mg/L	47.0	12/03/19 12:32	
SM 5310C	Total Organic Carbon	5.5	mg/L	1.5	12/03/19 21:33	
40199775016	MW-12					
EPA 8260	Vinyl chloride	0.40J	ug/L	1.0	11/26/19 16:26	
40199775017	MW-41					
EPA 6010	Iron, Dissolved	93.0J	ug/L	100	11/26/19 21:09	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40199775017	MW-41					
EPA 6010	Manganese, Dissolved	805	ug/L	5.0	11/26/19 21:09	
EPA 8260	1,1,1-Trichloroethane	2.1	ug/L	1.0	11/26/19 16:48	
EPA 8260	1,1-Dichloroethane	1.7	ug/L	1.0	11/26/19 16:48	
EPA 8260	Tetrachloroethene	1.1J	ug/L	1.1	11/26/19 16:48	
EPA 8260	Trichloroethene	30.2	ug/L	1.0	11/26/19 16:48	
EPA 8260	cis-1,2-Dichloroethene	3.6	ug/L	1.0	11/26/19 16:48	
EPA 300.0	Sulfate	43.1	mg/L	10.0	12/04/19 15:41	
EPA 310.2	Alkalinity, Total as CaCO ₃	401	mg/L	47.0	12/03/19 12:33	
SM 5310C	Total Organic Carbon	57.7	mg/L	15.0	12/04/19 10:20	
40199775018	OP-3					
EPA 8015B Modified	Ethane	6.6	ug/L	5.6	11/26/19 11:31	
EPA 8015B Modified	Ethene	7.1	ug/L	5.0	11/26/19 11:31	
EPA 8015B Modified	Methane	272	ug/L	5.6	11/26/19 12:40	
EPA 6010	Iron, Dissolved	502	ug/L	100	11/26/19 21:12	
EPA 6010	Manganese, Dissolved	188	ug/L	5.0	11/26/19 21:12	
EPA 8260	1,1,1-Trichloroethane	179	ug/L	5.0	11/26/19 17:09	
EPA 8260	1,1-Dichloroethane	90.7	ug/L	5.0	11/26/19 17:09	
EPA 8260	1,1-Dichloroethene	27.5	ug/L	5.0	11/26/19 17:09	
EPA 8260	Chloroethane	8.7J	ug/L	25.0	11/26/19 17:09	
EPA 8260	Trichloroethene	474	ug/L	5.0	11/26/19 17:09	
EPA 8260	Vinyl chloride	49.4	ug/L	5.0	11/26/19 17:09	
EPA 8260	cis-1,2-Dichloroethene	382	ug/L	5.0	11/26/19 17:09	
EPA 8260	trans-1,2-Dichloroethene	11.8J	ug/L	18.2	11/26/19 17:09	
EPA 300.0	Sulfate	37.5	mg/L	2.0	12/04/19 15:54	
EPA 310.2	Alkalinity, Total as CaCO ₃	396	mg/L	47.0	12/03/19 12:33	
SM 5310C	Total Organic Carbon	2.3	mg/L	0.50	12/03/19 22:15	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199775

Sample: MW-1R **Lab ID: 40199775001** Collected: 11/20/19 10:14 Received: 11/22/19 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV		Analytical Method: EPA 8015B Modified							
Ethane	<1.2	ug/L	5.6	1.2	1		11/26/19 09:08	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		11/26/19 09:08	74-85-1	
Methane	<0.66	ug/L	2.8	0.66	1		11/26/19 09:08	74-82-8	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	<29.6	ug/L	100	29.6	1		11/26/19 20:31	7439-89-6	
Manganese, Dissolved	79.6	ug/L	5.0	1.1	1		11/26/19 20:31	7439-96-5	
8260 MSV		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/26/19 12:53	630-20-6	
1,1,1-Trichloroethane	0.90J	ug/L	1.0	0.24	1		11/26/19 12:53	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/26/19 12:53	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/26/19 12:53	79-00-5	
1,1-Dichloroethane	1.4	ug/L	1.0	0.27	1		11/26/19 12:53	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/26/19 12:53	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/26/19 12:53	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/26/19 12:53	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/26/19 12:53	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/26/19 12:53	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/26/19 12:53	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/26/19 12:53	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/26/19 12:53	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/26/19 12:53	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/26/19 12:53	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/26/19 12:53	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/26/19 12:53	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/26/19 12:53	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/26/19 12:53	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/26/19 12:53	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/26/19 12:53	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/26/19 12:53	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/26/19 12:53	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		11/26/19 12:53	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/26/19 12:53	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/26/19 12:53	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/26/19 12:53	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/26/19 12:53	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/26/19 12:53	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/26/19 12:53	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/26/19 12:53	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/26/19 12:53	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/26/19 12:53	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/26/19 12:53	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/26/19 12:53	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/26/19 12:53	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/26/19 12:53	75-71-8	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199775

Sample: MW-1R **Lab ID: 40199775001** Collected: 11/20/19 10:14 Received: 11/22/19 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/26/19 12:53	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/26/19 12:53	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/26/19 12:53	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/26/19 12:53	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/26/19 12:53	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/26/19 12:53	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/26/19 12:53	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		11/26/19 12:53	100-42-5	
Tetrachloroethene	0.49J	ug/L	1.1	0.33	1		11/26/19 12:53	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/26/19 12:53	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		11/26/19 12:53	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/26/19 12:53	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/26/19 12:53	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		11/26/19 12:53	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/26/19 12:53	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/26/19 12:53	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/26/19 12:53	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/26/19 12:53	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/26/19 12:53	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/26/19 12:53	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/26/19 12:53	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/26/19 12:53	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		11/26/19 12:53	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/26/19 12:53	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		11/26/19 12:53	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		1		11/26/19 12:53	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		11/26/19 12:53	2037-26-5	
300.0 IC Anions Analytical Method: EPA 300.0									
Sulfate	233	mg/L	40.0	8.9	20		12/04/19 11:43	14808-79-8	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	309	mg/L	23.5	7.0	1		12/03/19 12:21		
5310C TOC Analytical Method: SM 5310C									
Total Organic Carbon	5.7	mg/L	3.0	0.89	6		12/03/19 16:18	7440-44-0	

Sample: OP-14 **Lab ID: 40199775002** Collected: 11/20/19 11:11 Received: 11/22/19 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Ethane	<1.2	ug/L	5.6	1.2	1		11/26/19 09:15	74-84-0	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199775

Sample: OP-14 **Lab ID: 40199775002** Collected: 11/20/19 11:11 Received: 11/22/19 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV		Analytical Method: EPA 8015B Modified							
Ethene	<1.2	ug/L	5.0	1.2	1		11/26/19 09:15	74-85-1	
Methane	<0.66	ug/L	2.8	0.66	1		11/26/19 09:15	74-82-8	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	601	ug/L	100	29.6	1		11/26/19 20:38	7439-89-6	
Manganese, Dissolved	27.0	ug/L	5.0	1.1	1		11/26/19 20:38	7439-96-5	
8260 MSV		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<1.1	ug/L	4.0	1.1	4		11/26/19 09:18	630-20-6	
1,1,1-Trichloroethane	3.6J	ug/L	4.0	0.98	4		11/26/19 09:18	71-55-6	
1,1,2,2-Tetrachloroethane	<1.1	ug/L	4.0	1.1	4		11/26/19 09:18	79-34-5	
1,1,2-Trichloroethane	<2.2	ug/L	20.0	2.2	4		11/26/19 09:18	79-00-5	
1,1-Dichloroethane	<1.1	ug/L	4.0	1.1	4		11/26/19 09:18	75-34-3	
1,1-Dichloroethene	<0.98	ug/L	4.0	0.98	4		11/26/19 09:18	75-35-4	
1,1-Dichloropropene	<2.2	ug/L	7.2	2.2	4		11/26/19 09:18	563-58-6	
1,2,3-Trichlorobenzene	<2.5	ug/L	20.0	2.5	4		11/26/19 09:18	87-61-6	
1,2,3-Trichloropropane	<2.4	ug/L	20.0	2.4	4		11/26/19 09:18	96-18-4	
1,2,4-Trichlorobenzene	<3.8	ug/L	20.0	3.8	4		11/26/19 09:18	120-82-1	
1,2,4-Trimethylbenzene	<3.4	ug/L	11.2	3.4	4		11/26/19 09:18	95-63-6	
1,2-Dibromo-3-chloropropane	<7.1	ug/L	23.5	7.1	4		11/26/19 09:18	96-12-8	
1,2-Dibromoethane (EDB)	<3.3	ug/L	11.1	3.3	4		11/26/19 09:18	106-93-4	
1,2-Dichlorobenzene	<2.8	ug/L	9.4	2.8	4		11/26/19 09:18	95-50-1	
1,2-Dichloroethane	<1.1	ug/L	4.0	1.1	4		11/26/19 09:18	107-06-2	
1,2-Dichloropropane	<1.1	ug/L	4.0	1.1	4		11/26/19 09:18	78-87-5	
1,3,5-Trimethylbenzene	<3.5	ug/L	11.6	3.5	4		11/26/19 09:18	108-67-8	
1,3-Dichlorobenzene	<2.5	ug/L	8.4	2.5	4		11/26/19 09:18	541-73-1	
1,3-Dichloropropane	<3.3	ug/L	11.0	3.3	4		11/26/19 09:18	142-28-9	
1,4-Dichlorobenzene	<3.8	ug/L	12.6	3.8	4		11/26/19 09:18	106-46-7	
2,2-Dichloropropane	<9.1	ug/L	30.2	9.1	4		11/26/19 09:18	594-20-7	
2-Chlorotoluene	<3.7	ug/L	20.0	3.7	4		11/26/19 09:18	95-49-8	
4-Chlorotoluene	<3.0	ug/L	10.1	3.0	4		11/26/19 09:18	106-43-4	
Benzene	<0.99	ug/L	4.0	0.99	4		11/26/19 09:18	71-43-2	
Bromobenzene	<0.96	ug/L	4.0	0.96	4		11/26/19 09:18	108-86-1	
Bromochloromethane	<1.4	ug/L	20.0	1.4	4		11/26/19 09:18	74-97-5	
Bromodichloromethane	<1.5	ug/L	4.8	1.5	4		11/26/19 09:18	75-27-4	
Bromoform	<15.9	ug/L	53.0	15.9	4		11/26/19 09:18	75-25-2	
Bromomethane	<3.9	ug/L	20.0	3.9	4		11/26/19 09:18	74-83-9	
Carbon tetrachloride	<0.66	ug/L	4.0	0.66	4		11/26/19 09:18	56-23-5	
Chlorobenzene	<2.8	ug/L	9.5	2.8	4		11/26/19 09:18	108-90-7	
Chloroethane	<5.4	ug/L	20.0	5.4	4		11/26/19 09:18	75-00-3	
Chloroform	<5.1	ug/L	20.0	5.1	4		11/26/19 09:18	67-66-3	
Chloromethane	<8.8	ug/L	29.2	8.8	4		11/26/19 09:18	74-87-3	
Dibromochloromethane	<10.4	ug/L	34.7	10.4	4		11/26/19 09:18	124-48-1	
Dibromomethane	<3.7	ug/L	12.5	3.7	4		11/26/19 09:18	74-95-3	
Dichlorodifluoromethane	<2.0	ug/L	20.0	2.0	4		11/26/19 09:18	75-71-8	
Diisopropyl ether	<7.6	ug/L	25.2	7.6	4		11/26/19 09:18	108-20-3	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

Sample: OP-14 **Lab ID: 40199775002** Collected: 11/20/19 11:11 Received: 11/22/19 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Ethylbenzene	<0.87	ug/L	4.0	0.87	4		11/26/19 09:18	100-41-4	
Hexachloro-1,3-butadiene	<4.7	ug/L	20.0	4.7	4		11/26/19 09:18	87-68-3	
Isopropylbenzene (Cumene)	<1.6	ug/L	20.0	1.6	4		11/26/19 09:18	98-82-8	
Methyl-tert-butyl ether	<5.0	ug/L	16.6	5.0	4		11/26/19 09:18	1634-04-4	
Methylene Chloride	<2.3	ug/L	20.0	2.3	4		11/26/19 09:18	75-09-2	
Naphthalene	<4.7	ug/L	20.0	4.7	4		11/26/19 09:18	91-20-3	
Styrene	<1.9	ug/L	6.2	1.9	4		11/26/19 09:18	100-42-5	
Tetrachloroethene	11.5	ug/L	4.4	1.3	4		11/26/19 09:18	127-18-4	
Toluene	<0.69	ug/L	20.0	0.69	4		11/26/19 09:18	108-88-3	
Trichloroethene	914	ug/L	4.0	1.0	4		11/26/19 09:18	79-01-6	
Trichlorofluoromethane	<0.86	ug/L	4.0	0.86	4		11/26/19 09:18	75-69-4	
Vinyl chloride	<0.70	ug/L	4.0	0.70	4		11/26/19 09:18	75-01-4	
cis-1,2-Dichloroethene	13.1	ug/L	4.0	1.1	4		11/26/19 09:18	156-59-2	
cis-1,3-Dichloropropene	<14.5	ug/L	48.4	14.5	4		11/26/19 09:18	10061-01-5	
m&p-Xylene	<1.9	ug/L	8.0	1.9	4		11/26/19 09:18	179601-23-1	
n-Butylbenzene	<2.8	ug/L	9.4	2.8	4		11/26/19 09:18	104-51-8	
n-Propylbenzene	<3.2	ug/L	20.0	3.2	4		11/26/19 09:18	103-65-1	
o-Xylene	<1.0	ug/L	4.0	1.0	4		11/26/19 09:18	95-47-6	
p-Isopropyltoluene	<3.2	ug/L	10.7	3.2	4		11/26/19 09:18	99-87-6	
sec-Butylbenzene	<3.4	ug/L	20.0	3.4	4		11/26/19 09:18	135-98-8	
tert-Butylbenzene	<1.2	ug/L	4.1	1.2	4		11/26/19 09:18	98-06-6	
trans-1,2-Dichloroethene	<4.4	ug/L	14.5	4.4	4		11/26/19 09:18	156-60-5	
trans-1,3-Dichloropropene	<17.5	ug/L	58.3	17.5	4		11/26/19 09:18	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		4		11/26/19 09:18	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		4		11/26/19 09:18	1868-53-7	
Toluene-d8 (S)	99	%	70-130		4		11/26/19 09:18	2037-26-5	
300.0 IC Anions Analytical Method: EPA 300.0									
Sulfate	88.5	mg/L	10.0	2.2	5		12/04/19 11:56	14808-79-8	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	395	mg/L	47.0	14.1	2		12/03/19 12:21		
5310C TOC Analytical Method: SM 5310C									
Total Organic Carbon	4.3	mg/L	1.5	0.45	3		12/03/19 17:42	7440-44-0	

Sample: MW-2 **Lab ID: 40199775003** Collected: 11/20/19 10:21 Received: 11/22/19 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Ethane	<1.2	ug/L	5.6	1.2	1		11/26/19 09:22	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		11/26/19 09:22	74-85-1	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199775

Sample: MW-2 **Lab ID: 40199775003** Collected: 11/20/19 10:21 Received: 11/22/19 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV		Analytical Method: EPA 8015B Modified							
Methane	<0.66	ug/L	2.8	0.66	1		11/26/19 09:22	74-82-8	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	<29.6	ug/L	100	29.6	1		11/26/19 20:40	7439-89-6	
Manganese, Dissolved	9220	ug/L	5.0	1.1	1		11/26/19 20:40	7439-96-5	
8260 MSV		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<6.7	ug/L	25.0	6.7	25		11/26/19 09:40	630-20-6	
1,1,1-Trichloroethane	<6.1	ug/L	25.0	6.1	25		11/26/19 09:40	71-55-6	
1,1,2,2-Tetrachloroethane	<6.9	ug/L	25.0	6.9	25		11/26/19 09:40	79-34-5	
1,1,2-Trichloroethane	<13.8	ug/L	125	13.8	25		11/26/19 09:40	79-00-5	
1,1-Dichloroethane	<6.8	ug/L	25.0	6.8	25		11/26/19 09:40	75-34-3	
1,1-Dichloroethene	<6.1	ug/L	25.0	6.1	25		11/26/19 09:40	75-35-4	
1,1-Dichloropropene	<13.5	ug/L	45.0	13.5	25		11/26/19 09:40	563-58-6	
1,2,3-Trichlorobenzene	<15.6	ug/L	125	15.6	25		11/26/19 09:40	87-61-6	
1,2,3-Trichloropropane	<14.8	ug/L	125	14.8	25		11/26/19 09:40	96-18-4	
1,2,4-Trichlorobenzene	<23.8	ug/L	125	23.8	25		11/26/19 09:40	120-82-1	
1,2,4-Trimethylbenzene	<21.0	ug/L	70.0	21.0	25		11/26/19 09:40	95-63-6	
1,2-Dibromo-3-chloropropane	<44.1	ug/L	147	44.1	25		11/26/19 09:40	96-12-8	
1,2-Dibromoethane (EDB)	<20.7	ug/L	69.1	20.7	25		11/26/19 09:40	106-93-4	
1,2-Dichlorobenzene	<17.6	ug/L	58.8	17.6	25		11/26/19 09:40	95-50-1	
1,2-Dichloroethane	<7.0	ug/L	25.0	7.0	25		11/26/19 09:40	107-06-2	
1,2-Dichloropropane	<7.1	ug/L	25.0	7.1	25		11/26/19 09:40	78-87-5	
1,3,5-Trimethylbenzene	<21.8	ug/L	72.8	21.8	25		11/26/19 09:40	108-67-8	
1,3-Dichlorobenzene	<15.7	ug/L	52.3	15.7	25		11/26/19 09:40	541-73-1	
1,3-Dichloropropane	<20.6	ug/L	68.8	20.6	25		11/26/19 09:40	142-28-9	
1,4-Dichlorobenzene	<23.6	ug/L	78.6	23.6	25		11/26/19 09:40	106-46-7	
2,2-Dichloropropane	<56.6	ug/L	189	56.6	25		11/26/19 09:40	594-20-7	
2-Chlorotoluene	<23.2	ug/L	125	23.2	25		11/26/19 09:40	95-49-8	
4-Chlorotoluene	<18.9	ug/L	63.0	18.9	25		11/26/19 09:40	106-43-4	
Benzene	<6.2	ug/L	25.0	6.2	25		11/26/19 09:40	71-43-2	
Bromobenzene	<6.0	ug/L	25.0	6.0	25		11/26/19 09:40	108-86-1	
Bromochloromethane	<9.1	ug/L	125	9.1	25		11/26/19 09:40	74-97-5	
Bromodichloromethane	<9.1	ug/L	30.3	9.1	25		11/26/19 09:40	75-27-4	
Bromoform	<99.3	ug/L	331	99.3	25		11/26/19 09:40	75-25-2	
Bromomethane	<24.3	ug/L	125	24.3	25		11/26/19 09:40	74-83-9	
Carbon tetrachloride	<4.1	ug/L	25.0	4.1	25		11/26/19 09:40	56-23-5	
Chlorobenzene	<17.8	ug/L	59.2	17.8	25		11/26/19 09:40	108-90-7	
Chloroethane	<33.6	ug/L	125	33.6	25		11/26/19 09:40	75-00-3	
Chloroform	<31.8	ug/L	125	31.8	25		11/26/19 09:40	67-66-3	
Chloromethane	<54.7	ug/L	182	54.7	25		11/26/19 09:40	74-87-3	
Dibromochloromethane	<65.0	ug/L	217	65.0	25		11/26/19 09:40	124-48-1	
Dibromomethane	<23.4	ug/L	78.1	23.4	25		11/26/19 09:40	74-95-3	
Dichlorodifluoromethane	<12.5	ug/L	125	12.5	25		11/26/19 09:40	75-71-8	
Diisopropyl ether	<47.2	ug/L	157	47.2	25		11/26/19 09:40	108-20-3	
Ethylbenzene	<5.5	ug/L	25.0	5.5	25		11/26/19 09:40	100-41-4	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

Sample: MW-2 **Lab ID: 40199775003** Collected: 11/20/19 10:21 Received: 11/22/19 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Hexachloro-1,3-butadiene	<29.6	ug/L	125	29.6	25		11/26/19 09:40	87-68-3	
Isopropylbenzene (Cumene)	<9.8	ug/L	125	9.8	25		11/26/19 09:40	98-82-8	
Methyl-tert-butyl ether	<31.1	ug/L	104	31.1	25		11/26/19 09:40	1634-04-4	
Methylene Chloride	<14.5	ug/L	125	14.5	25		11/26/19 09:40	75-09-2	
Naphthalene	<29.4	ug/L	125	29.4	25		11/26/19 09:40	91-20-3	
Styrene	<11.6	ug/L	38.8	11.6	25		11/26/19 09:40	100-42-5	
Tetrachloroethene	<8.2	ug/L	27.2	8.2	25		11/26/19 09:40	127-18-4	
Toluene	<4.3	ug/L	125	4.3	25		11/26/19 09:40	108-88-3	
Trichloroethene	240	ug/L	25.0	6.4	25		11/26/19 09:40	79-01-6	
Trichlorofluoromethane	<5.4	ug/L	25.0	5.4	25		11/26/19 09:40	75-69-4	
Vinyl chloride	<4.4	ug/L	25.0	4.4	25		11/26/19 09:40	75-01-4	
cis-1,2-Dichloroethene	1230	ug/L	25.0	6.8	25		11/26/19 09:40	156-59-2	
cis-1,3-Dichloropropene	<90.7	ug/L	302	90.7	25		11/26/19 09:40	10061-01-5	
m&p-Xylene	<11.6	ug/L	50.0	11.6	25		11/26/19 09:40	179601-23-1	
n-Butylbenzene	<17.7	ug/L	59.0	17.7	25		11/26/19 09:40	104-51-8	
n-Propylbenzene	<20.3	ug/L	125	20.3	25		11/26/19 09:40	103-65-1	
o-Xylene	<6.5	ug/L	25.0	6.5	25		11/26/19 09:40	95-47-6	
p-Isopropyltoluene	<20.0	ug/L	66.7	20.0	25		11/26/19 09:40	99-87-6	
sec-Butylbenzene	<21.2	ug/L	125	21.2	25		11/26/19 09:40	135-98-8	
tert-Butylbenzene	<7.6	ug/L	25.3	7.6	25		11/26/19 09:40	98-06-6	
trans-1,2-Dichloroethene	<27.3	ug/L	90.9	27.3	25		11/26/19 09:40	156-60-5	
trans-1,3-Dichloropropene	<109	ug/L	364	109	25		11/26/19 09:40	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		25		11/26/19 09:40	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		25		11/26/19 09:40	1868-53-7	
Toluene-d8 (S)	99	%	70-130		25		11/26/19 09:40	2037-26-5	
300.0 IC Anions Analytical Method: EPA 300.0									
Sulfate	84.9	mg/L	20.0	4.4	10		12/04/19 12:49	14808-79-8	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	809	mg/L	117	35.2	5		12/03/19 13:02		
5310C TOC Analytical Method: SM 5310C									
Total Organic Carbon	171	mg/L	50.0	14.9	100		12/04/19 09:39	7440-44-0	

Sample: MW-4 **Lab ID: 40199775004** Collected: 11/20/19 11:08 Received: 11/22/19 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Ethane	<1.2	ug/L	5.6	1.2	1		11/26/19 09:29	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		11/26/19 09:29	74-85-1	
Methane	<0.66	ug/L	2.8	0.66	1		11/26/19 09:29	74-82-8	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199775

Sample: MW-4 **Lab ID: 40199775004** Collected: 11/20/19 11:08 Received: 11/22/19 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	246	ug/L	100	29.6	1		11/26/19 20:43	7439-89-6	
Manganese, Dissolved	1060	ug/L	5.0	1.1	1		11/26/19 20:43	7439-96-5	
8260 MSV		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<0.67	ug/L	2.5	0.67	2.5		11/26/19 10:01	630-20-6	
1,1,1-Trichloroethane	2.4J	ug/L	2.5	0.61	2.5		11/26/19 10:01	71-55-6	
1,1,2,2-Tetrachloroethane	<0.69	ug/L	2.5	0.69	2.5		11/26/19 10:01	79-34-5	
1,1,2-Trichloroethane	<1.4	ug/L	12.5	1.4	2.5		11/26/19 10:01	79-00-5	
1,1-Dichloroethane	<0.68	ug/L	2.5	0.68	2.5		11/26/19 10:01	75-34-3	
1,1-Dichloroethene	<0.61	ug/L	2.5	0.61	2.5		11/26/19 10:01	75-35-4	
1,1-Dichloropropene	<1.4	ug/L	4.5	1.4	2.5		11/26/19 10:01	563-58-6	
1,2,3-Trichlorobenzene	<1.6	ug/L	12.5	1.6	2.5		11/26/19 10:01	87-61-6	
1,2,3-Trichloropropane	<1.5	ug/L	12.5	1.5	2.5		11/26/19 10:01	96-18-4	
1,2,4-Trichlorobenzene	<2.4	ug/L	12.5	2.4	2.5		11/26/19 10:01	120-82-1	
1,2,4-Trimethylbenzene	<2.1	ug/L	7.0	2.1	2.5		11/26/19 10:01	95-63-6	
1,2-Dibromo-3-chloropropane	<4.4	ug/L	14.7	4.4	2.5		11/26/19 10:01	96-12-8	
1,2-Dibromoethane (EDB)	<2.1	ug/L	6.9	2.1	2.5		11/26/19 10:01	106-93-4	
1,2-Dichlorobenzene	<1.8	ug/L	5.9	1.8	2.5		11/26/19 10:01	95-50-1	
1,2-Dichloroethane	<0.70	ug/L	2.5	0.70	2.5		11/26/19 10:01	107-06-2	
1,2-Dichloropropane	<0.71	ug/L	2.5	0.71	2.5		11/26/19 10:01	78-87-5	
1,3,5-Trimethylbenzene	<2.2	ug/L	7.3	2.2	2.5		11/26/19 10:01	108-67-8	
1,3-Dichlorobenzene	<1.6	ug/L	5.2	1.6	2.5		11/26/19 10:01	541-73-1	
1,3-Dichloropropane	<2.1	ug/L	6.9	2.1	2.5		11/26/19 10:01	142-28-9	
1,4-Dichlorobenzene	<2.4	ug/L	7.9	2.4	2.5		11/26/19 10:01	106-46-7	
2,2-Dichloropropane	<5.7	ug/L	18.9	5.7	2.5		11/26/19 10:01	594-20-7	
2-Chlorotoluene	<2.3	ug/L	12.5	2.3	2.5		11/26/19 10:01	95-49-8	
4-Chlorotoluene	<1.9	ug/L	6.3	1.9	2.5		11/26/19 10:01	106-43-4	
Benzene	<0.62	ug/L	2.5	0.62	2.5		11/26/19 10:01	71-43-2	
Bromobenzene	<0.60	ug/L	2.5	0.60	2.5		11/26/19 10:01	108-86-1	
Bromochloromethane	<0.91	ug/L	12.5	0.91	2.5		11/26/19 10:01	74-97-5	
Bromodichloromethane	<0.91	ug/L	3.0	0.91	2.5		11/26/19 10:01	75-27-4	
Bromoform	<9.9	ug/L	33.1	9.9	2.5		11/26/19 10:01	75-25-2	
Bromomethane	<2.4	ug/L	12.5	2.4	2.5		11/26/19 10:01	74-83-9	
Carbon tetrachloride	<0.41	ug/L	2.5	0.41	2.5		11/26/19 10:01	56-23-5	
Chlorobenzene	<1.8	ug/L	5.9	1.8	2.5		11/26/19 10:01	108-90-7	
Chloroethane	<3.4	ug/L	12.5	3.4	2.5		11/26/19 10:01	75-00-3	
Chloroform	<3.2	ug/L	12.5	3.2	2.5		11/26/19 10:01	67-66-3	
Chloromethane	<5.5	ug/L	18.2	5.5	2.5		11/26/19 10:01	74-87-3	
Dibromochloromethane	<6.5	ug/L	21.7	6.5	2.5		11/26/19 10:01	124-48-1	
Dibromomethane	<2.3	ug/L	7.8	2.3	2.5		11/26/19 10:01	74-95-3	
Dichlorodifluoromethane	<1.2	ug/L	12.5	1.2	2.5		11/26/19 10:01	75-71-8	
Diisopropyl ether	<4.7	ug/L	15.7	4.7	2.5		11/26/19 10:01	108-20-3	
Ethylbenzene	<0.55	ug/L	2.5	0.55	2.5		11/26/19 10:01	100-41-4	
Hexachloro-1,3-butadiene	<3.0	ug/L	12.5	3.0	2.5		11/26/19 10:01	87-68-3	
Isopropylbenzene (Cumene)	<0.98	ug/L	12.5	0.98	2.5		11/26/19 10:01	98-82-8	
Methyl-tert-butyl ether	<3.1	ug/L	10.4	3.1	2.5		11/26/19 10:01	1634-04-4	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

Sample: MW-4 **Lab ID: 40199775004** Collected: 11/20/19 11:08 Received: 11/22/19 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Methylene Chloride	<1.5	ug/L	12.5	1.5	2.5		11/26/19 10:01	75-09-2	
Naphthalene	<2.9	ug/L	12.5	2.9	2.5		11/26/19 10:01	91-20-3	
Styrene	<1.2	ug/L	3.9	1.2	2.5		11/26/19 10:01	100-42-5	
Tetrachloroethene	2.5J	ug/L	2.7	0.82	2.5		11/26/19 10:01	127-18-4	
Toluene	<0.43	ug/L	12.5	0.43	2.5		11/26/19 10:01	108-88-3	
Trichloroethene	132	ug/L	2.5	0.64	2.5		11/26/19 10:01	79-01-6	
Trichlorofluoromethane	<0.54	ug/L	2.5	0.54	2.5		11/26/19 10:01	75-69-4	
Vinyl chloride	<0.44	ug/L	2.5	0.44	2.5		11/26/19 10:01	75-01-4	
cis-1,2-Dichloroethene	5.2	ug/L	2.5	0.68	2.5		11/26/19 10:01	156-59-2	
cis-1,3-Dichloropropene	<9.1	ug/L	30.2	9.1	2.5		11/26/19 10:01	10061-01-5	
m&p-Xylene	<1.2	ug/L	5.0	1.2	2.5		11/26/19 10:01	179601-23-1	
n-Butylbenzene	<1.8	ug/L	5.9	1.8	2.5		11/26/19 10:01	104-51-8	
n-Propylbenzene	<2.0	ug/L	12.5	2.0	2.5		11/26/19 10:01	103-65-1	
o-Xylene	<0.65	ug/L	2.5	0.65	2.5		11/26/19 10:01	95-47-6	
p-Isopropyltoluene	<2.0	ug/L	6.7	2.0	2.5		11/26/19 10:01	99-87-6	
sec-Butylbenzene	<2.1	ug/L	12.5	2.1	2.5		11/26/19 10:01	135-98-8	
tert-Butylbenzene	<0.76	ug/L	2.5	0.76	2.5		11/26/19 10:01	98-06-6	
trans-1,2-Dichloroethene	<2.7	ug/L	9.1	2.7	2.5		11/26/19 10:01	156-60-5	
trans-1,3-Dichloropropene	<10.9	ug/L	36.4	10.9	2.5		11/26/19 10:01	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		2.5		11/26/19 10:01	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		2.5		11/26/19 10:01	1868-53-7	
Toluene-d8 (S)	98	%	70-130		2.5		11/26/19 10:01	2037-26-5	
300.0 IC Anions Analytical Method: EPA 300.0									
Sulfate	41.0	mg/L	10.0	2.2	5		12/04/19 13:02	14808-79-8	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	270	mg/L	23.5	7.0	1		12/03/19 12:24		
5310C TOC Analytical Method: SM 5310C									
Total Organic Carbon	4.7	mg/L	0.50	0.15	1		12/03/19 19:07	7440-44-0	

Sample: MW-42 **Lab ID: 40199775005** Collected: 11/20/19 12:03 Received: 11/22/19 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Ethane	<1.2	ug/L	5.6	1.2	1		11/26/19 09:36	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		11/26/19 09:36	74-85-1	
Methane	<0.66	ug/L	2.8	0.66	1		11/26/19 09:36	74-82-8	
6010 MET ICP, Dissolved Analytical Method: EPA 6010									
Iron, Dissolved	9760	ug/L	100	29.6	1		11/26/19 20:45	7439-89-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199775

Sample: MW-42 **Lab ID: 40199775005** Collected: 11/20/19 12:03 Received: 11/22/19 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Manganese, Dissolved	1070	ug/L	5.0	1.1	1		11/26/19 20:45	7439-96-5	
8260 MSV		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<26.9	ug/L	100	26.9	100		11/26/19 17:30	630-20-6	
1,1,1-Trichloroethane	<24.5	ug/L	100	24.5	100		11/26/19 17:30	71-55-6	
1,1,2,2-Tetrachloroethane	<27.5	ug/L	100	27.5	100		11/26/19 17:30	79-34-5	
1,1,2-Trichloroethane	<55.2	ug/L	500	55.2	100		11/26/19 17:30	79-00-5	
1,1-Dichloroethane	<27.3	ug/L	100	27.3	100		11/26/19 17:30	75-34-3	
1,1-Dichloroethene	<24.5	ug/L	100	24.5	100		11/26/19 17:30	75-35-4	
1,1-Dichloropropene	<54.0	ug/L	180	54.0	100		11/26/19 17:30	563-58-6	
1,2,3-Trichlorobenzene	<62.6	ug/L	500	62.6	100		11/26/19 17:30	87-61-6	
1,2,3-Trichloropropane	<59.1	ug/L	500	59.1	100		11/26/19 17:30	96-18-4	
1,2,4-Trichlorobenzene	<95.1	ug/L	500	95.1	100		11/26/19 17:30	120-82-1	
1,2,4-Trimethylbenzene	<84.1	ug/L	280	84.1	100		11/26/19 17:30	95-63-6	
1,2-Dibromo-3-chloropropane	<176	ug/L	588	176	100		11/26/19 17:30	96-12-8	
1,2-Dibromoethane (EDB)	<82.9	ug/L	276	82.9	100		11/26/19 17:30	106-93-4	
1,2-Dichlorobenzene	<70.5	ug/L	235	70.5	100		11/26/19 17:30	95-50-1	
1,2-Dichloroethane	<28.0	ug/L	100	28.0	100		11/26/19 17:30	107-06-2	
1,2-Dichloropropane	<28.3	ug/L	100	28.3	100		11/26/19 17:30	78-87-5	
1,3,5-Trimethylbenzene	<87.3	ug/L	291	87.3	100		11/26/19 17:30	108-67-8	
1,3-Dichlorobenzene	<62.8	ug/L	209	62.8	100		11/26/19 17:30	541-73-1	
1,3-Dichloropropane	<82.6	ug/L	275	82.6	100		11/26/19 17:30	142-28-9	
1,4-Dichlorobenzene	<94.4	ug/L	315	94.4	100		11/26/19 17:30	106-46-7	
2,2-Dichloropropane	<227	ug/L	755	227	100		11/26/19 17:30	594-20-7	
2-Chlorotoluene	<92.6	ug/L	500	92.6	100		11/26/19 17:30	95-49-8	
4-Chlorotoluene	<75.6	ug/L	252	75.6	100		11/26/19 17:30	106-43-4	
Benzene	<24.6	ug/L	100	24.6	100		11/26/19 17:30	71-43-2	
Bromobenzene	<24.1	ug/L	100	24.1	100		11/26/19 17:30	108-86-1	
Bromochloromethane	<36.2	ug/L	500	36.2	100		11/26/19 17:30	74-97-5	
Bromodichloromethane	<36.4	ug/L	121	36.4	100		11/26/19 17:30	75-27-4	
Bromoform	<397	ug/L	1320	397	100		11/26/19 17:30	75-25-2	
Bromomethane	<97.1	ug/L	500	97.1	100		11/26/19 17:30	74-83-9	
Carbon tetrachloride	<16.6	ug/L	100	16.6	100		11/26/19 17:30	56-23-5	
Chlorobenzene	<71.1	ug/L	237	71.1	100		11/26/19 17:30	108-90-7	
Chloroethane	<134	ug/L	500	134	100		11/26/19 17:30	75-00-3	
Chloroform	<127	ug/L	500	127	100		11/26/19 17:30	67-66-3	
Chloromethane	<219	ug/L	730	219	100		11/26/19 17:30	74-87-3	
Dibromochloromethane	<260	ug/L	867	260	100		11/26/19 17:30	124-48-1	
Dibromomethane	<93.7	ug/L	312	93.7	100		11/26/19 17:30	74-95-3	
Dichlorodifluoromethane	<50.0	ug/L	500	50.0	100		11/26/19 17:30	75-71-8	
Diisopropyl ether	<189	ug/L	629	189	100		11/26/19 17:30	108-20-3	
Ethylbenzene	<21.8	ug/L	100	21.8	100		11/26/19 17:30	100-41-4	
Hexachloro-1,3-butadiene	<118	ug/L	500	118	100		11/26/19 17:30	87-68-3	
Isopropylbenzene (Cumene)	<39.3	ug/L	500	39.3	100		11/26/19 17:30	98-82-8	
Methyl-tert-butyl ether	<125	ug/L	415	125	100		11/26/19 17:30	1634-04-4	
Methylene Chloride	<58.1	ug/L	500	58.1	100		11/26/19 17:30	75-09-2	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

Sample: MW-42 **Lab ID: 40199775005** Collected: 11/20/19 12:03 Received: 11/22/19 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Naphthalene	<118	ug/L	500	118	100		11/26/19 17:30	91-20-3	
Styrene	<46.5	ug/L	155	46.5	100		11/26/19 17:30	100-42-5	
Tetrachloroethene	<32.6	ug/L	109	32.6	100		11/26/19 17:30	127-18-4	
Toluene	<17.2	ug/L	500	17.2	100		11/26/19 17:30	108-88-3	
Trichloroethene	4770	ug/L	100	25.5	100		11/26/19 17:30	79-01-6	
Trichlorofluoromethane	<21.5	ug/L	100	21.5	100		11/26/19 17:30	75-69-4	
Vinyl chloride	<17.5	ug/L	100	17.5	100		11/26/19 17:30	75-01-4	
cis-1,2-Dichloroethene	35.1J	ug/L	100	27.1	100		11/26/19 17:30	156-59-2	
cis-1,3-Dichloropropene	<363	ug/L	1210	363	100		11/26/19 17:30	10061-01-5	
m&p-Xylene	<46.5	ug/L	200	46.5	100		11/26/19 17:30	179601-23-1	
n-Butylbenzene	<70.8	ug/L	236	70.8	100		11/26/19 17:30	104-51-8	
n-Propylbenzene	<81.1	ug/L	500	81.1	100		11/26/19 17:30	103-65-1	
o-Xylene	<26.2	ug/L	100	26.2	100		11/26/19 17:30	95-47-6	
p-Isopropyltoluene	<80.0	ug/L	267	80.0	100		11/26/19 17:30	99-87-6	
sec-Butylbenzene	<84.9	ug/L	500	84.9	100		11/26/19 17:30	135-98-8	
tert-Butylbenzene	<30.4	ug/L	101	30.4	100		11/26/19 17:30	98-06-6	
trans-1,2-Dichloroethene	<109	ug/L	364	109	100		11/26/19 17:30	156-60-5	
trans-1,3-Dichloropropene	<437	ug/L	1460	437	100		11/26/19 17:30	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		100		11/26/19 17:30	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		100		11/26/19 17:30	1868-53-7	
Toluene-d8 (S)	100	%	70-130		100		11/26/19 17:30	2037-26-5	
300.0 IC Anions Analytical Method: EPA 300.0									
Sulfate	48.1	mg/L	20.0	4.4	10		12/04/19 13:15	14808-79-8	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	585	mg/L	47.0	14.1	2		12/03/19 12:24		
5310C TOC Analytical Method: SM 5310C									
Total Organic Carbon	124	mg/L	30.0	8.9	60		12/04/19 10:00	7440-44-0	

Sample: OP-9 **Lab ID: 40199775006** Collected: 11/20/19 14:03 Received: 11/22/19 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Ethane	18.8	ug/L	5.6	1.2	1		11/26/19 09:43	74-84-0	
Ethene	3.6J	ug/L	5.0	1.2	1		11/26/19 09:43	74-85-1	
Methane	156	ug/L	2.8	0.66	1		11/26/19 09:43	74-82-8	
6010 MET ICP, Dissolved Analytical Method: EPA 6010									
Iron, Dissolved	8080	ug/L	100	29.6	1		11/26/19 20:48	7439-89-6	
Manganese, Dissolved	2610	ug/L	5.0	1.1	1		11/26/19 20:48	7439-96-5	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199775

Sample: OP-9 **Lab ID: 40199775006** Collected: 11/20/19 14:03 Received: 11/22/19 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/26/19 13:14	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/26/19 13:14	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/26/19 13:14	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/26/19 13:14	79-00-5	
1,1-Dichloroethane	1.0	ug/L	1.0	0.27	1		11/26/19 13:14	75-34-3	
1,1-Dichloroethene	1.4	ug/L	1.0	0.24	1		11/26/19 13:14	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/26/19 13:14	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/26/19 13:14	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/26/19 13:14	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/26/19 13:14	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/26/19 13:14	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/26/19 13:14	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/26/19 13:14	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/26/19 13:14	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/26/19 13:14	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/26/19 13:14	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/26/19 13:14	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/26/19 13:14	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/26/19 13:14	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/26/19 13:14	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/26/19 13:14	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/26/19 13:14	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/26/19 13:14	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		11/26/19 13:14	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/26/19 13:14	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/26/19 13:14	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/26/19 13:14	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/26/19 13:14	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/26/19 13:14	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/26/19 13:14	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/26/19 13:14	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/26/19 13:14	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/26/19 13:14	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/26/19 13:14	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/26/19 13:14	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/26/19 13:14	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/26/19 13:14	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/26/19 13:14	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/26/19 13:14	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/26/19 13:14	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/26/19 13:14	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/26/19 13:14	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/26/19 13:14	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/26/19 13:14	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		11/26/19 13:14	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/26/19 13:14	127-18-4	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

Sample: OP-9 **Lab ID: 40199775006** Collected: 11/20/19 14:03 Received: 11/22/19 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Toluene	<0.17	ug/L	5.0	0.17	1		11/26/19 13:14	108-88-3	
Trichloroethene	4.2	ug/L	1.0	0.26	1		11/26/19 13:14	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/26/19 13:14	75-69-4	
Vinyl chloride	42.6	ug/L	1.0	0.17	1		11/26/19 13:14	75-01-4	
cis-1,2-Dichloroethene	39.9	ug/L	1.0	0.27	1		11/26/19 13:14	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/26/19 13:14	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/26/19 13:14	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/26/19 13:14	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/26/19 13:14	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/26/19 13:14	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/26/19 13:14	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/26/19 13:14	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/26/19 13:14	98-06-6	
trans-1,2-Dichloroethene	9.7	ug/L	3.6	1.1	1		11/26/19 13:14	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/26/19 13:14	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		11/26/19 13:14	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		11/26/19 13:14	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		11/26/19 13:14	2037-26-5	

300.0 IC Anions Analytical Method: EPA 300.0									
Sulfate	742	mg/L	40.0	8.9	20		12/04/19 13:29	14808-79-8	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	475	mg/L	47.0	14.1	2		12/03/19 12:25		

Sample: MW-38 **Lab ID: 40199775007** Collected: 11/20/19 12:38 Received: 11/22/19 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Ethane	<1.2	ug/L	5.6	1.2	1		11/26/19 09:50	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		11/26/19 09:50	74-85-1	
Methane	<0.66	ug/L	2.8	0.66	1		11/26/19 09:50	74-82-8	
6010 MET ICP, Dissolved Analytical Method: EPA 6010									
Iron, Dissolved	<29.6	ug/L	100	29.6	1		11/26/19 20:55	7439-89-6	
Manganese, Dissolved	<1.1	ug/L	5.0	1.1	1		11/26/19 20:55	7439-96-5	
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/26/19 08:57	630-20-6	
1,1,1-Trichloroethane	0.31J	ug/L	1.0	0.24	1		11/26/19 08:57	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/26/19 08:57	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/26/19 08:57	79-00-5	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199775

Sample: MW-38 **Lab ID: 40199775007** Collected: 11/20/19 12:38 Received: 11/22/19 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/26/19 08:57	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/26/19 08:57	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/26/19 08:57	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/26/19 08:57	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/26/19 08:57	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/26/19 08:57	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/26/19 08:57	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/26/19 08:57	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/26/19 08:57	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/26/19 08:57	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/26/19 08:57	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/26/19 08:57	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/26/19 08:57	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/26/19 08:57	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/26/19 08:57	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/26/19 08:57	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/26/19 08:57	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/26/19 08:57	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/26/19 08:57	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		11/26/19 08:57	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/26/19 08:57	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/26/19 08:57	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/26/19 08:57	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/26/19 08:57	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/26/19 08:57	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/26/19 08:57	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/26/19 08:57	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/26/19 08:57	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/26/19 08:57	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/26/19 08:57	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/26/19 08:57	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/26/19 08:57	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/26/19 08:57	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/26/19 08:57	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/26/19 08:57	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/26/19 08:57	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/26/19 08:57	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/26/19 08:57	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/26/19 08:57	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/26/19 08:57	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		11/26/19 08:57	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/26/19 08:57	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/26/19 08:57	108-88-3	
Trichloroethene	0.57J	ug/L	1.0	0.26	1		11/26/19 08:57	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/26/19 08:57	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/26/19 08:57	75-01-4	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199775

Sample: MW-38 **Lab ID: 40199775007** Collected: 11/20/19 12:38 Received: 11/22/19 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		11/26/19 08:57	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/26/19 08:57	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/26/19 08:57	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/26/19 08:57	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/26/19 08:57	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/26/19 08:57	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/26/19 08:57	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/26/19 08:57	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/26/19 08:57	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		11/26/19 08:57	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/26/19 08:57	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		11/26/19 08:57	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		11/26/19 08:57	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		11/26/19 08:57	2037-26-5	
300.0 IC Anions Analytical Method: EPA 300.0									
Sulfate	92.4	mg/L	10.0	2.2	5		12/04/19 13:42	14808-79-8	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	207	mg/L	47.0	14.1	2		12/03/19 12:26		

Sample: MW-29 **Lab ID: 40199775008** Collected: 11/20/19 08:23 Received: 11/22/19 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/26/19 13:35	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/26/19 13:35	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/26/19 13:35	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/26/19 13:35	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/26/19 13:35	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/26/19 13:35	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/26/19 13:35	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/26/19 13:35	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/26/19 13:35	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/26/19 13:35	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/26/19 13:35	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/26/19 13:35	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/26/19 13:35	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/26/19 13:35	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/26/19 13:35	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/26/19 13:35	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/26/19 13:35	108-67-8	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

Sample: MW-29 **Lab ID: 40199775008** Collected: 11/20/19 08:23 Received: 11/22/19 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/26/19 13:35	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/26/19 13:35	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/26/19 13:35	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/26/19 13:35	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/26/19 13:35	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/26/19 13:35	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		11/26/19 13:35	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/26/19 13:35	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/26/19 13:35	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/26/19 13:35	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/26/19 13:35	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/26/19 13:35	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/26/19 13:35	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/26/19 13:35	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/26/19 13:35	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/26/19 13:35	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/26/19 13:35	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/26/19 13:35	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/26/19 13:35	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/26/19 13:35	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/26/19 13:35	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/26/19 13:35	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/26/19 13:35	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/26/19 13:35	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/26/19 13:35	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/26/19 13:35	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/26/19 13:35	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		11/26/19 13:35	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/26/19 13:35	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/26/19 13:35	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		11/26/19 13:35	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/26/19 13:35	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/26/19 13:35	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		11/26/19 13:35	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/26/19 13:35	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/26/19 13:35	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/26/19 13:35	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/26/19 13:35	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/26/19 13:35	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/26/19 13:35	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/26/19 13:35	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/26/19 13:35	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		11/26/19 13:35	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/26/19 13:35	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		11/26/19 13:35	460-00-4	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199775

Sample: MW-29 **Lab ID: 40199775008** Collected: 11/20/19 08:23 Received: 11/22/19 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
<i>Surrogates</i>									
Dibromofluoromethane (S)	100	%	70-130		1		11/26/19 13:35	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		11/26/19 13:35	2037-26-5	

Sample: DUP **Lab ID: 40199775009** Collected: 11/20/19 00:00 Received: 11/22/19 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Ethane	7.3	ug/L	5.6	1.2	1		11/26/19 09:57	74-84-0	
Ethene	7.7	ug/L	5.0	1.2	1		11/26/19 09:57	74-85-1	
Methane	334	ug/L	5.6	1.3	2		11/26/19 12:27	74-82-8	
6010 MET ICP, Dissolved Analytical Method: EPA 6010									
Iron, Dissolved	498	ug/L	100	29.6	1		11/26/19 20:57	7439-89-6	
Manganese, Dissolved	166	ug/L	5.0	1.1	1		11/26/19 20:57	7439-96-5	

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<1.3	ug/L	5.0	1.3	5		11/26/19 10:44	630-20-6	
1,1,1-Trichloroethane	196	ug/L	5.0	1.2	5		11/26/19 10:44	71-55-6	
1,1,2,2-Tetrachloroethane	<1.4	ug/L	5.0	1.4	5		11/26/19 10:44	79-34-5	
1,1,2-Trichloroethane	<2.8	ug/L	25.0	2.8	5		11/26/19 10:44	79-00-5	
1,1-Dichloroethane	93.7	ug/L	5.0	1.4	5		11/26/19 10:44	75-34-3	
1,1-Dichloroethene	28.9	ug/L	5.0	1.2	5		11/26/19 10:44	75-35-4	
1,1-Dichloropropene	<2.7	ug/L	9.0	2.7	5		11/26/19 10:44	563-58-6	
1,2,3-Trichlorobenzene	<3.1	ug/L	25.0	3.1	5		11/26/19 10:44	87-61-6	
1,2,3-Trichloropropane	<3.0	ug/L	25.0	3.0	5		11/26/19 10:44	96-18-4	
1,2,4-Trichlorobenzene	<4.8	ug/L	25.0	4.8	5		11/26/19 10:44	120-82-1	
1,2,4-Trimethylbenzene	<4.2	ug/L	14.0	4.2	5		11/26/19 10:44	95-63-6	
1,2-Dibromo-3-chloropropane	<8.8	ug/L	29.4	8.8	5		11/26/19 10:44	96-12-8	
1,2-Dibromoethane (EDB)	<4.1	ug/L	13.8	4.1	5		11/26/19 10:44	106-93-4	
1,2-Dichlorobenzene	<3.5	ug/L	11.8	3.5	5		11/26/19 10:44	95-50-1	
1,2-Dichloroethane	<1.4	ug/L	5.0	1.4	5		11/26/19 10:44	107-06-2	
1,2-Dichloropropane	<1.4	ug/L	5.0	1.4	5		11/26/19 10:44	78-87-5	
1,3,5-Trimethylbenzene	<4.4	ug/L	14.6	4.4	5		11/26/19 10:44	108-67-8	
1,3-Dichlorobenzene	<3.1	ug/L	10.5	3.1	5		11/26/19 10:44	541-73-1	
1,3-Dichloropropane	<4.1	ug/L	13.8	4.1	5		11/26/19 10:44	142-28-9	
1,4-Dichlorobenzene	<4.7	ug/L	15.7	4.7	5		11/26/19 10:44	106-46-7	
2,2-Dichloropropane	<11.3	ug/L	37.8	11.3	5		11/26/19 10:44	594-20-7	
2-Chlorotoluene	<4.6	ug/L	25.0	4.6	5		11/26/19 10:44	95-49-8	
4-Chlorotoluene	<3.8	ug/L	12.6	3.8	5		11/26/19 10:44	106-43-4	
Benzene	<1.2	ug/L	5.0	1.2	5		11/26/19 10:44	71-43-2	
Bromobenzene	<1.2	ug/L	5.0	1.2	5		11/26/19 10:44	108-86-1	
Bromochloromethane	<1.8	ug/L	25.0	1.8	5		11/26/19 10:44	74-97-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

Sample: DUP **Lab ID: 40199775009** Collected: 11/20/19 00:00 Received: 11/22/19 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Bromodichloromethane	<1.8	ug/L	6.1	1.8	5		11/26/19 10:44	75-27-4	
Bromoform	<19.9	ug/L	66.2	19.9	5		11/26/19 10:44	75-25-2	
Bromomethane	<4.9	ug/L	25.0	4.9	5		11/26/19 10:44	74-83-9	
Carbon tetrachloride	<0.83	ug/L	5.0	0.83	5		11/26/19 10:44	56-23-5	
Chlorobenzene	<3.6	ug/L	11.8	3.6	5		11/26/19 10:44	108-90-7	
Chloroethane	9.5J	ug/L	25.0	6.7	5		11/26/19 10:44	75-00-3	
Chloroform	<6.4	ug/L	25.0	6.4	5		11/26/19 10:44	67-66-3	
Chloromethane	<10.9	ug/L	36.5	10.9	5		11/26/19 10:44	74-87-3	
Dibromochloromethane	<13.0	ug/L	43.4	13.0	5		11/26/19 10:44	124-48-1	
Dibromomethane	<4.7	ug/L	15.6	4.7	5		11/26/19 10:44	74-95-3	
Dichlorodifluoromethane	<2.5	ug/L	25.0	2.5	5		11/26/19 10:44	75-71-8	
Diisopropyl ether	<9.4	ug/L	31.5	9.4	5		11/26/19 10:44	108-20-3	
Ethylbenzene	<1.1	ug/L	5.0	1.1	5		11/26/19 10:44	100-41-4	
Hexachloro-1,3-butadiene	<5.9	ug/L	25.0	5.9	5		11/26/19 10:44	87-68-3	
Isopropylbenzene (Cumene)	<2.0	ug/L	25.0	2.0	5		11/26/19 10:44	98-82-8	
Methyl-tert-butyl ether	<6.2	ug/L	20.8	6.2	5		11/26/19 10:44	1634-04-4	
Methylene Chloride	<2.9	ug/L	25.0	2.9	5		11/26/19 10:44	75-09-2	
Naphthalene	<5.9	ug/L	25.0	5.9	5		11/26/19 10:44	91-20-3	
Styrene	<2.3	ug/L	7.8	2.3	5		11/26/19 10:44	100-42-5	
Tetrachloroethene	<1.6	ug/L	5.4	1.6	5		11/26/19 10:44	127-18-4	
Toluene	<0.86	ug/L	25.0	0.86	5		11/26/19 10:44	108-88-3	
Trichloroethene	399	ug/L	5.0	1.3	5		11/26/19 10:44	79-01-6	
Trichlorofluoromethane	<1.1	ug/L	5.0	1.1	5		11/26/19 10:44	75-69-4	
Vinyl chloride	45.9	ug/L	5.0	0.87	5		11/26/19 10:44	75-01-4	
cis-1,2-Dichloroethene	352	ug/L	5.0	1.4	5		11/26/19 10:44	156-59-2	
cis-1,3-Dichloropropene	<18.1	ug/L	60.5	18.1	5		11/26/19 10:44	10061-01-5	
m&p-Xylene	<2.3	ug/L	10.0	2.3	5		11/26/19 10:44	179601-23-1	
n-Butylbenzene	<3.5	ug/L	11.8	3.5	5		11/26/19 10:44	104-51-8	
n-Propylbenzene	<4.1	ug/L	25.0	4.1	5		11/26/19 10:44	103-65-1	
o-Xylene	<1.3	ug/L	5.0	1.3	5		11/26/19 10:44	95-47-6	
p-Isopropyltoluene	<4.0	ug/L	13.3	4.0	5		11/26/19 10:44	99-87-6	
sec-Butylbenzene	<4.2	ug/L	25.0	4.2	5		11/26/19 10:44	135-98-8	
tert-Butylbenzene	<1.5	ug/L	5.1	1.5	5		11/26/19 10:44	98-06-6	
trans-1,2-Dichloroethene	5.7J	ug/L	18.2	5.5	5		11/26/19 10:44	156-60-5	
trans-1,3-Dichloropropene	<21.9	ug/L	72.8	21.9	5		11/26/19 10:44	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		5		11/26/19 10:44	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		5		11/26/19 10:44	1868-53-7	
Toluene-d8 (S)	97	%	70-130		5		11/26/19 10:44	2037-26-5	
300.0 IC Anions Analytical Method: EPA 300.0									
Sulfate	37.9	mg/L	20.0	4.4	10		12/04/19 13:55	14808-79-8	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	406	mg/L	47.0	14.1	2		12/03/19 12:27		

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

Sample: DUP									
Lab ID: 40199775009									
Collected: 11/20/19 00:00									
Received: 11/22/19 08:55									
Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
5310C TOC									
Analytical Method: SM 5310C									
Total Organic Carbon	2.4	mg/L	0.50	0.15	1		12/03/19 19:48	7440-44-0	

Sample: MW-40									
Lab ID: 40199775010									
Collected: 11/20/19 13:24									
Received: 11/22/19 08:55									
Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV									
Analytical Method: EPA 8015B Modified									
Ethane	<1.2	ug/L	5.6	1.2	1		11/26/19 10:04	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		11/26/19 10:04	74-85-1	
Methane	14.8	ug/L	2.8	0.66	1		11/26/19 10:04	74-82-8	

6010 MET ICP, Dissolved									
Analytical Method: EPA 6010									
Iron, Dissolved	<29.6	ug/L	100	29.6	1		11/26/19 21:00	7439-89-6	
Manganese, Dissolved	9.6	ug/L	5.0	1.1	1		11/26/19 21:00	7439-96-5	

8260 MSV									
Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<26.9	ug/L	100	26.9	100		11/26/19 11:05	630-20-6	
1,1,1-Trichloroethane	10900	ug/L	100	24.5	100		11/26/19 11:05	71-55-6	
1,1,2,2-Tetrachloroethane	<27.5	ug/L	100	27.5	100		11/26/19 11:05	79-34-5	
1,1,2-Trichloroethane	<55.2	ug/L	500	55.2	100		11/26/19 11:05	79-00-5	
1,1-Dichloroethane	336	ug/L	100	27.3	100		11/26/19 11:05	75-34-3	
1,1-Dichloroethene	283	ug/L	100	24.5	100		11/26/19 11:05	75-35-4	
1,1-Dichloropropene	<54.0	ug/L	180	54.0	100		11/26/19 11:05	563-58-6	
1,2,3-Trichlorobenzene	<62.6	ug/L	500	62.6	100		11/26/19 11:05	87-61-6	
1,2,3-Trichloropropane	<59.1	ug/L	500	59.1	100		11/26/19 11:05	96-18-4	
1,2,4-Trichlorobenzene	<95.1	ug/L	500	95.1	100		11/26/19 11:05	120-82-1	
1,2,4-Trimethylbenzene	<84.1	ug/L	280	84.1	100		11/26/19 11:05	95-63-6	
1,2-Dibromo-3-chloropropane	<176	ug/L	588	176	100		11/26/19 11:05	96-12-8	
1,2-Dibromoethane (EDB)	<82.9	ug/L	276	82.9	100		11/26/19 11:05	106-93-4	
1,2-Dichlorobenzene	<70.5	ug/L	235	70.5	100		11/26/19 11:05	95-50-1	
1,2-Dichloroethane	<28.0	ug/L	100	28.0	100		11/26/19 11:05	107-06-2	
1,2-Dichloropropane	<28.3	ug/L	100	28.3	100		11/26/19 11:05	78-87-5	
1,3,5-Trimethylbenzene	<87.3	ug/L	291	87.3	100		11/26/19 11:05	108-67-8	
1,3-Dichlorobenzene	<62.8	ug/L	209	62.8	100		11/26/19 11:05	541-73-1	
1,3-Dichloropropane	<82.6	ug/L	275	82.6	100		11/26/19 11:05	142-28-9	
1,4-Dichlorobenzene	<94.4	ug/L	315	94.4	100		11/26/19 11:05	106-46-7	
2,2-Dichloropropane	<227	ug/L	755	227	100		11/26/19 11:05	594-20-7	
2-Chlorotoluene	<92.6	ug/L	500	92.6	100		11/26/19 11:05	95-49-8	
4-Chlorotoluene	<75.6	ug/L	252	75.6	100		11/26/19 11:05	106-43-4	
Benzene	<24.6	ug/L	100	24.6	100		11/26/19 11:05	71-43-2	
Bromobenzene	<24.1	ug/L	100	24.1	100		11/26/19 11:05	108-86-1	
Bromochloromethane	<36.2	ug/L	500	36.2	100		11/26/19 11:05	74-97-5	
Bromodichloromethane	<36.4	ug/L	121	36.4	100		11/26/19 11:05	75-27-4	
Bromoform	<397	ug/L	1320	397	100		11/26/19 11:05	75-25-2	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199775

Sample: MW-40 **Lab ID: 40199775010** Collected: 11/20/19 13:24 Received: 11/22/19 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Bromomethane	<97.1	ug/L	500	97.1	100		11/26/19 11:05	74-83-9	
Carbon tetrachloride	<16.6	ug/L	100	16.6	100		11/26/19 11:05	56-23-5	
Chlorobenzene	<71.1	ug/L	237	71.1	100		11/26/19 11:05	108-90-7	
Chloroethane	<134	ug/L	500	134	100		11/26/19 11:05	75-00-3	
Chloroform	<127	ug/L	500	127	100		11/26/19 11:05	67-66-3	
Chloromethane	<219	ug/L	730	219	100		11/26/19 11:05	74-87-3	
Dibromochloromethane	<260	ug/L	867	260	100		11/26/19 11:05	124-48-1	
Dibromomethane	<93.7	ug/L	312	93.7	100		11/26/19 11:05	74-95-3	
Dichlorodifluoromethane	<50.0	ug/L	500	50.0	100		11/26/19 11:05	75-71-8	
Diisopropyl ether	<189	ug/L	629	189	100		11/26/19 11:05	108-20-3	
Ethylbenzene	<21.8	ug/L	100	21.8	100		11/26/19 11:05	100-41-4	
Hexachloro-1,3-butadiene	<118	ug/L	500	118	100		11/26/19 11:05	87-68-3	
Isopropylbenzene (Cumene)	<39.3	ug/L	500	39.3	100		11/26/19 11:05	98-82-8	
Methyl-tert-butyl ether	<125	ug/L	415	125	100		11/26/19 11:05	1634-04-4	
Methylene Chloride	<58.1	ug/L	500	58.1	100		11/26/19 11:05	75-09-2	
Naphthalene	<118	ug/L	500	118	100		11/26/19 11:05	91-20-3	
Styrene	<46.5	ug/L	155	46.5	100		11/26/19 11:05	100-42-5	
Tetrachloroethene	<32.6	ug/L	109	32.6	100		11/26/19 11:05	127-18-4	
Toluene	<17.2	ug/L	500	17.2	100		11/26/19 11:05	108-88-3	
Trichloroethene	231	ug/L	100	25.5	100		11/26/19 11:05	79-01-6	
Trichlorofluoromethane	<21.5	ug/L	100	21.5	100		11/26/19 11:05	75-69-4	
Vinyl chloride	<17.5	ug/L	100	17.5	100		11/26/19 11:05	75-01-4	
cis-1,2-Dichloroethene	739	ug/L	100	27.1	100		11/26/19 11:05	156-59-2	
cis-1,3-Dichloropropene	<363	ug/L	1210	363	100		11/26/19 11:05	10061-01-5	
m&p-Xylene	<46.5	ug/L	200	46.5	100		11/26/19 11:05	179601-23-1	
n-Butylbenzene	<70.8	ug/L	236	70.8	100		11/26/19 11:05	104-51-8	
n-Propylbenzene	<81.1	ug/L	500	81.1	100		11/26/19 11:05	103-65-1	
o-Xylene	<26.2	ug/L	100	26.2	100		11/26/19 11:05	95-47-6	
p-Isopropyltoluene	<80.0	ug/L	267	80.0	100		11/26/19 11:05	99-87-6	
sec-Butylbenzene	<84.9	ug/L	500	84.9	100		11/26/19 11:05	135-98-8	
tert-Butylbenzene	<30.4	ug/L	101	30.4	100		11/26/19 11:05	98-06-6	
trans-1,2-Dichloroethene	<109	ug/L	364	109	100		11/26/19 11:05	156-60-5	
trans-1,3-Dichloropropene	<437	ug/L	1460	437	100		11/26/19 11:05	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		100		11/26/19 11:05	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		100		11/26/19 11:05	1868-53-7	
Toluene-d8 (S)	98	%	70-130		100		11/26/19 11:05	2037-26-5	
300.0 IC Anions Analytical Method: EPA 300.0									
Sulfate	62.2	mg/L	20.0	4.4	10		12/04/19 14:08	14808-79-8	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	443	mg/L	47.0	14.1	2		12/03/19 12:27		
5310C TOC Analytical Method: SM 5310C									
Total Organic Carbon	2.5	mg/L	1.0	0.30	2		12/03/19 20:09	7440-44-0	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199775

Sample: MW-16 **Lab ID: 40199775011** Collected: 11/20/19 12:37 Received: 11/22/19 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV		Analytical Method: EPA 8015B Modified							
Ethane	<1.2	ug/L	5.6	1.2	1		11/26/19 11:03	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		11/26/19 11:03	74-85-1	
Methane	22.6	ug/L	2.8	0.66	1		11/26/19 11:03	74-82-8	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	1110	ug/L	100	29.6	1		11/26/19 21:02	7439-89-6	
Manganese, Dissolved	75.4	ug/L	5.0	1.1	1		11/26/19 21:02	7439-96-5	
8260 MSV		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<5.4	ug/L	20.0	5.4	20		11/26/19 11:27	630-20-6	
1,1,1-Trichloroethane	1080	ug/L	20.0	4.9	20		11/26/19 11:27	71-55-6	
1,1,2,2-Tetrachloroethane	<5.5	ug/L	20.0	5.5	20		11/26/19 11:27	79-34-5	
1,1,2-Trichloroethane	<11.0	ug/L	100	11.0	20		11/26/19 11:27	79-00-5	
1,1-Dichloroethane	87.4	ug/L	20.0	5.5	20		11/26/19 11:27	75-34-3	
1,1-Dichloroethene	13.8J	ug/L	20.0	4.9	20		11/26/19 11:27	75-35-4	
1,1-Dichloropropene	<10.8	ug/L	36.0	10.8	20		11/26/19 11:27	563-58-6	
1,2,3-Trichlorobenzene	<12.5	ug/L	100	12.5	20		11/26/19 11:27	87-61-6	
1,2,3-Trichloropropane	<11.8	ug/L	100	11.8	20		11/26/19 11:27	96-18-4	
1,2,4-Trichlorobenzene	<19.0	ug/L	100	19.0	20		11/26/19 11:27	120-82-1	
1,2,4-Trimethylbenzene	<16.8	ug/L	56.0	16.8	20		11/26/19 11:27	95-63-6	
1,2-Dibromo-3-chloropropane	<35.3	ug/L	118	35.3	20		11/26/19 11:27	96-12-8	
1,2-Dibromoethane (EDB)	<16.6	ug/L	55.3	16.6	20		11/26/19 11:27	106-93-4	
1,2-Dichlorobenzene	<14.1	ug/L	47.0	14.1	20		11/26/19 11:27	95-50-1	
1,2-Dichloroethane	<5.6	ug/L	20.0	5.6	20		11/26/19 11:27	107-06-2	
1,2-Dichloropropane	<5.7	ug/L	20.0	5.7	20		11/26/19 11:27	78-87-5	
1,3,5-Trimethylbenzene	<17.5	ug/L	58.2	17.5	20		11/26/19 11:27	108-67-8	
1,3-Dichlorobenzene	<12.6	ug/L	41.9	12.6	20		11/26/19 11:27	541-73-1	
1,3-Dichloropropane	<16.5	ug/L	55.1	16.5	20		11/26/19 11:27	142-28-9	
1,4-Dichlorobenzene	<18.9	ug/L	62.9	18.9	20		11/26/19 11:27	106-46-7	
2,2-Dichloropropane	<45.3	ug/L	151	45.3	20		11/26/19 11:27	594-20-7	
2-Chlorotoluene	<18.5	ug/L	100	18.5	20		11/26/19 11:27	95-49-8	
4-Chlorotoluene	<15.1	ug/L	50.4	15.1	20		11/26/19 11:27	106-43-4	
Benzene	<4.9	ug/L	20.0	4.9	20		11/26/19 11:27	71-43-2	
Bromobenzene	<4.8	ug/L	20.0	4.8	20		11/26/19 11:27	108-86-1	
Bromochloromethane	<7.2	ug/L	100	7.2	20		11/26/19 11:27	74-97-5	
Bromodichloromethane	<7.3	ug/L	24.2	7.3	20		11/26/19 11:27	75-27-4	
Bromoform	<79.4	ug/L	265	79.4	20		11/26/19 11:27	75-25-2	
Bromomethane	<19.4	ug/L	100	19.4	20		11/26/19 11:27	74-83-9	
Carbon tetrachloride	<3.3	ug/L	20.0	3.3	20		11/26/19 11:27	56-23-5	
Chlorobenzene	<14.2	ug/L	47.4	14.2	20		11/26/19 11:27	108-90-7	
Chloroethane	<26.8	ug/L	100	26.8	20		11/26/19 11:27	75-00-3	
Chloroform	<25.5	ug/L	100	25.5	20		11/26/19 11:27	67-66-3	
Chloromethane	<43.8	ug/L	146	43.8	20		11/26/19 11:27	74-87-3	
Dibromochloromethane	<52.0	ug/L	173	52.0	20		11/26/19 11:27	124-48-1	
Dibromomethane	<18.7	ug/L	62.5	18.7	20		11/26/19 11:27	74-95-3	
Dichlorodifluoromethane	<10	ug/L	100	10	20		11/26/19 11:27	75-71-8	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

Sample: MW-16 **Lab ID: 40199775011** Collected: 11/20/19 12:37 Received: 11/22/19 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Diisopropyl ether	<37.8	ug/L	126	37.8	20		11/26/19 11:27	108-20-3	
Ethylbenzene	<4.4	ug/L	20.0	4.4	20		11/26/19 11:27	100-41-4	
Hexachloro-1,3-butadiene	<23.6	ug/L	100	23.6	20		11/26/19 11:27	87-68-3	
Isopropylbenzene (Cumene)	<7.9	ug/L	100	7.9	20		11/26/19 11:27	98-82-8	
Methyl-tert-butyl ether	<24.9	ug/L	83.1	24.9	20		11/26/19 11:27	1634-04-4	
Methylene Chloride	<11.6	ug/L	100	11.6	20		11/26/19 11:27	75-09-2	
Naphthalene	<23.5	ug/L	100	23.5	20		11/26/19 11:27	91-20-3	
Styrene	<9.3	ug/L	31.0	9.3	20		11/26/19 11:27	100-42-5	
Tetrachloroethene	<6.5	ug/L	21.8	6.5	20		11/26/19 11:27	127-18-4	
Toluene	<3.4	ug/L	100	3.4	20		11/26/19 11:27	108-88-3	
Trichloroethene	33.8	ug/L	20.0	5.1	20		11/26/19 11:27	79-01-6	
Trichlorofluoromethane	<4.3	ug/L	20.0	4.3	20		11/26/19 11:27	75-69-4	
Vinyl chloride	9.8J	ug/L	20.0	3.5	20		11/26/19 11:27	75-01-4	
cis-1,2-Dichloroethene	809	ug/L	20.0	5.4	20		11/26/19 11:27	156-59-2	
cis-1,3-Dichloropropene	<72.6	ug/L	242	72.6	20		11/26/19 11:27	10061-01-5	
m&p-Xylene	<9.3	ug/L	40.0	9.3	20		11/26/19 11:27	179601-23-1	
n-Butylbenzene	<14.2	ug/L	47.2	14.2	20		11/26/19 11:27	104-51-8	
n-Propylbenzene	<16.2	ug/L	100	16.2	20		11/26/19 11:27	103-65-1	
o-Xylene	<5.2	ug/L	20.0	5.2	20		11/26/19 11:27	95-47-6	
p-Isopropyltoluene	<16.0	ug/L	53.3	16.0	20		11/26/19 11:27	99-87-6	
sec-Butylbenzene	<17.0	ug/L	100	17.0	20		11/26/19 11:27	135-98-8	
tert-Butylbenzene	<6.1	ug/L	20.3	6.1	20		11/26/19 11:27	98-06-6	
trans-1,2-Dichloroethene	36.8J	ug/L	72.7	21.8	20		11/26/19 11:27	156-60-5	
trans-1,3-Dichloropropene	<87.4	ug/L	291	87.4	20		11/26/19 11:27	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		20		11/26/19 11:27	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		20		11/26/19 11:27	1868-53-7	
Toluene-d8 (S)	99	%	70-130		20		11/26/19 11:27	2037-26-5	
300.0 IC Anions Analytical Method: EPA 300.0									
Sulfate	62.4	mg/L	10.0	2.2	5		12/05/19 02:58	14808-79-8	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	431	mg/L	117	35.2	5		12/03/19 12:28		
5310C TOC Analytical Method: SM 5310C									
Total Organic Carbon	2.1	mg/L	0.50	0.15	1		12/03/19 20:30	7440-44-0	

Sample: OP-2 **Lab ID: 40199775012** Collected: 11/20/19 14:08 Received: 11/22/19 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Ethane	<1.2	ug/L	5.6	1.2	1		11/26/19 11:10	74-84-0	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

Sample: OP-2 **Lab ID: 40199775012** Collected: 11/20/19 14:08 Received: 11/22/19 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV		Analytical Method: EPA 8015B Modified							
Ethene	<1.2	ug/L	5.0	1.2	1		11/26/19 11:10	74-85-1	
Methane	<0.66	ug/L	2.8	0.66	1		11/26/19 11:10	74-82-8	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	<29.6	ug/L	100	29.6	1		11/26/19 21:05	7439-89-6	
Manganese, Dissolved	2.0J	ug/L	5.0	1.1	1		11/26/19 21:05	7439-96-5	
8260 MSV		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<1.3	ug/L	5.0	1.3	5		11/26/19 11:48	630-20-6	
1,1,1-Trichloroethane	167	ug/L	5.0	1.2	5		11/26/19 11:48	71-55-6	
1,1,2,2-Tetrachloroethane	<1.4	ug/L	5.0	1.4	5		11/26/19 11:48	79-34-5	
1,1,2-Trichloroethane	<2.8	ug/L	25.0	2.8	5		11/26/19 11:48	79-00-5	
1,1-Dichloroethane	25.5	ug/L	5.0	1.4	5		11/26/19 11:48	75-34-3	
1,1-Dichloroethene	6.9	ug/L	5.0	1.2	5		11/26/19 11:48	75-35-4	
1,1-Dichloropropene	<2.7	ug/L	9.0	2.7	5		11/26/19 11:48	563-58-6	
1,2,3-Trichlorobenzene	<3.1	ug/L	25.0	3.1	5		11/26/19 11:48	87-61-6	
1,2,3-Trichloropropane	<3.0	ug/L	25.0	3.0	5		11/26/19 11:48	96-18-4	
1,2,4-Trichlorobenzene	<4.8	ug/L	25.0	4.8	5		11/26/19 11:48	120-82-1	
1,2,4-Trimethylbenzene	<4.2	ug/L	14.0	4.2	5		11/26/19 11:48	95-63-6	
1,2-Dibromo-3-chloropropane	<8.8	ug/L	29.4	8.8	5		11/26/19 11:48	96-12-8	
1,2-Dibromoethane (EDB)	<4.1	ug/L	13.8	4.1	5		11/26/19 11:48	106-93-4	
1,2-Dichlorobenzene	<3.5	ug/L	11.8	3.5	5		11/26/19 11:48	95-50-1	
1,2-Dichloroethane	<1.4	ug/L	5.0	1.4	5		11/26/19 11:48	107-06-2	
1,2-Dichloropropane	<1.4	ug/L	5.0	1.4	5		11/26/19 11:48	78-87-5	
1,3,5-Trimethylbenzene	<4.4	ug/L	14.6	4.4	5		11/26/19 11:48	108-67-8	
1,3-Dichlorobenzene	<3.1	ug/L	10.5	3.1	5		11/26/19 11:48	541-73-1	
1,3-Dichloropropane	<4.1	ug/L	13.8	4.1	5		11/26/19 11:48	142-28-9	
1,4-Dichlorobenzene	<4.7	ug/L	15.7	4.7	5		11/26/19 11:48	106-46-7	
2,2-Dichloropropane	<11.3	ug/L	37.8	11.3	5		11/26/19 11:48	594-20-7	
2-Chlorotoluene	<4.6	ug/L	25.0	4.6	5		11/26/19 11:48	95-49-8	
4-Chlorotoluene	<3.8	ug/L	12.6	3.8	5		11/26/19 11:48	106-43-4	
Benzene	<1.2	ug/L	5.0	1.2	5		11/26/19 11:48	71-43-2	
Bromobenzene	<1.2	ug/L	5.0	1.2	5		11/26/19 11:48	108-86-1	
Bromochloromethane	<1.8	ug/L	25.0	1.8	5		11/26/19 11:48	74-97-5	
Bromodichloromethane	<1.8	ug/L	6.1	1.8	5		11/26/19 11:48	75-27-4	
Bromoform	<19.9	ug/L	66.2	19.9	5		11/26/19 11:48	75-25-2	
Bromomethane	<4.9	ug/L	25.0	4.9	5		11/26/19 11:48	74-83-9	
Carbon tetrachloride	<0.83	ug/L	5.0	0.83	5		11/26/19 11:48	56-23-5	
Chlorobenzene	<3.6	ug/L	11.8	3.6	5		11/26/19 11:48	108-90-7	
Chloroethane	<6.7	ug/L	25.0	6.7	5		11/26/19 11:48	75-00-3	
Chloroform	<6.4	ug/L	25.0	6.4	5		11/26/19 11:48	67-66-3	
Chloromethane	<10.9	ug/L	36.5	10.9	5		11/26/19 11:48	74-87-3	
Dibromochloromethane	<13.0	ug/L	43.4	13.0	5		11/26/19 11:48	124-48-1	
Dibromomethane	<4.7	ug/L	15.6	4.7	5		11/26/19 11:48	74-95-3	
Dichlorodifluoromethane	<2.5	ug/L	25.0	2.5	5		11/26/19 11:48	75-71-8	
Diisopropyl ether	<9.4	ug/L	31.5	9.4	5		11/26/19 11:48	108-20-3	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

Sample: OP-2 **Lab ID: 40199775012** Collected: 11/20/19 14:08 Received: 11/22/19 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Ethylbenzene	<1.1	ug/L	5.0	1.1	5		11/26/19 11:48	100-41-4	
Hexachloro-1,3-butadiene	<5.9	ug/L	25.0	5.9	5		11/26/19 11:48	87-68-3	
Isopropylbenzene (Cumene)	<2.0	ug/L	25.0	2.0	5		11/26/19 11:48	98-82-8	
Methyl-tert-butyl ether	<6.2	ug/L	20.8	6.2	5		11/26/19 11:48	1634-04-4	
Methylene Chloride	<2.9	ug/L	25.0	2.9	5		11/26/19 11:48	75-09-2	
Naphthalene	<5.9	ug/L	25.0	5.9	5		11/26/19 11:48	91-20-3	
Styrene	<2.3	ug/L	7.8	2.3	5		11/26/19 11:48	100-42-5	
Tetrachloroethene	<1.6	ug/L	5.4	1.6	5		11/26/19 11:48	127-18-4	
Toluene	<0.86	ug/L	25.0	0.86	5		11/26/19 11:48	108-88-3	
Trichloroethene	698	ug/L	5.0	1.3	5		11/26/19 11:48	79-01-6	
Trichlorofluoromethane	<1.1	ug/L	5.0	1.1	5		11/26/19 11:48	75-69-4	
Vinyl chloride	5.8	ug/L	5.0	0.87	5		11/26/19 11:48	75-01-4	
cis-1,2-Dichloroethene	642	ug/L	5.0	1.4	5		11/26/19 11:48	156-59-2	
cis-1,3-Dichloropropene	<18.1	ug/L	60.5	18.1	5		11/26/19 11:48	10061-01-5	
m&p-Xylene	<2.3	ug/L	10.0	2.3	5		11/26/19 11:48	179601-23-1	
n-Butylbenzene	<3.5	ug/L	11.8	3.5	5		11/26/19 11:48	104-51-8	
n-Propylbenzene	<4.1	ug/L	25.0	4.1	5		11/26/19 11:48	103-65-1	
o-Xylene	<1.3	ug/L	5.0	1.3	5		11/26/19 11:48	95-47-6	
p-Isopropyltoluene	<4.0	ug/L	13.3	4.0	5		11/26/19 11:48	99-87-6	
sec-Butylbenzene	<4.2	ug/L	25.0	4.2	5		11/26/19 11:48	135-98-8	
tert-Butylbenzene	<1.5	ug/L	5.1	1.5	5		11/26/19 11:48	98-06-6	
trans-1,2-Dichloroethene	<5.5	ug/L	18.2	5.5	5		11/26/19 11:48	156-60-5	
trans-1,3-Dichloropropene	<21.9	ug/L	72.8	21.9	5		11/26/19 11:48	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		5		11/26/19 11:48	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		5		11/26/19 11:48	1868-53-7	
Toluene-d8 (S)	99	%	70-130		5		11/26/19 11:48	2037-26-5	
300.0 IC Anions Analytical Method: EPA 300.0									
Sulfate	75.8	mg/L	10.0	2.2	5		12/04/19 14:35	14808-79-8	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	403	mg/L	47.0	14.1	2		12/03/19 12:31		
5310C TOC Analytical Method: SM 5310C									
Total Organic Carbon	2.3	mg/L	0.50	0.15	1		12/03/19 21:12	7440-44-0	

Sample: MW-25 **Lab ID: 40199775013** Collected: 11/20/19 08:50 Received: 11/22/19 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/26/19 13:56	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/26/19 13:56	71-55-6	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199775

Sample: MW-25 **Lab ID: 40199775013** Collected: 11/20/19 08:50 Received: 11/22/19 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/26/19 13:56	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/26/19 13:56	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/26/19 13:56	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/26/19 13:56	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/26/19 13:56	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/26/19 13:56	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/26/19 13:56	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/26/19 13:56	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/26/19 13:56	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/26/19 13:56	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/26/19 13:56	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/26/19 13:56	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/26/19 13:56	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/26/19 13:56	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/26/19 13:56	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/26/19 13:56	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/26/19 13:56	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/26/19 13:56	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/26/19 13:56	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/26/19 13:56	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/26/19 13:56	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		11/26/19 13:56	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/26/19 13:56	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/26/19 13:56	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/26/19 13:56	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/26/19 13:56	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/26/19 13:56	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/26/19 13:56	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/26/19 13:56	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/26/19 13:56	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/26/19 13:56	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/26/19 13:56	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/26/19 13:56	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/26/19 13:56	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/26/19 13:56	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/26/19 13:56	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/26/19 13:56	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/26/19 13:56	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/26/19 13:56	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/26/19 13:56	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/26/19 13:56	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/26/19 13:56	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		11/26/19 13:56	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/26/19 13:56	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/26/19 13:56	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		11/26/19 13:56	79-01-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199775

Sample: MW-25 **Lab ID: 40199775013** Collected: 11/20/19 08:50 Received: 11/22/19 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/26/19 13:56	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/26/19 13:56	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		11/26/19 13:56	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/26/19 13:56	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/26/19 13:56	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/26/19 13:56	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/26/19 13:56	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/26/19 13:56	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/26/19 13:56	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/26/19 13:56	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/26/19 13:56	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		11/26/19 13:56	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/26/19 13:56	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		11/26/19 13:56	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		11/26/19 13:56	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		11/26/19 13:56	2037-26-5	

Sample: MW-27 **Lab ID: 40199775014** Collected: 11/20/19 09:27 Received: 11/22/19 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/26/19 15:43	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/26/19 15:43	71-55-6	
1,1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/26/19 15:43	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/26/19 15:43	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/26/19 15:43	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/26/19 15:43	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/26/19 15:43	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/26/19 15:43	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/26/19 15:43	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/26/19 15:43	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/26/19 15:43	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/26/19 15:43	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/26/19 15:43	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/26/19 15:43	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/26/19 15:43	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/26/19 15:43	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/26/19 15:43	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/26/19 15:43	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/26/19 15:43	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/26/19 15:43	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/26/19 15:43	594-20-7	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199775

Sample: MW-27 **Lab ID: 40199775014** Collected: 11/20/19 09:27 Received: 11/22/19 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/26/19 15:43	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/26/19 15:43	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		11/26/19 15:43	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/26/19 15:43	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/26/19 15:43	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/26/19 15:43	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/26/19 15:43	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/26/19 15:43	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/26/19 15:43	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/26/19 15:43	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/26/19 15:43	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/26/19 15:43	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/26/19 15:43	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/26/19 15:43	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/26/19 15:43	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/26/19 15:43	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/26/19 15:43	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/26/19 15:43	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/26/19 15:43	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/26/19 15:43	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/26/19 15:43	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/26/19 15:43	75-09-2	
Naphthalene	1.2J	ug/L	5.0	1.2	1		11/26/19 15:43	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		11/26/19 15:43	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/26/19 15:43	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/26/19 15:43	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		11/26/19 15:43	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/26/19 15:43	75-69-4	
Vinyl chloride	0.30J	ug/L	1.0	0.17	1		11/26/19 15:43	75-01-4	
cis-1,2-Dichloroethene	0.34J	ug/L	1.0	0.27	1		11/26/19 15:43	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/26/19 15:43	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/26/19 15:43	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/26/19 15:43	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/26/19 15:43	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/26/19 15:43	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/26/19 15:43	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/26/19 15:43	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/26/19 15:43	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		11/26/19 15:43	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/26/19 15:43	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		1		11/26/19 15:43	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		11/26/19 15:43	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		11/26/19 15:43	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

Sample: MW-13R **Lab ID: 40199775015** Collected: 11/20/19 13:33 Received: 11/22/19 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV		Analytical Method: EPA 8015B Modified							
Ethane	6.3	ug/L	5.6	1.2	1		11/26/19 11:17	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		11/26/19 11:17	74-85-1	
Methane	248	ug/L	5.6	1.3	2		11/26/19 12:34	74-82-8	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	5840	ug/L	100	29.6	1		11/26/19 21:07	7439-89-6	
Manganese, Dissolved	1100	ug/L	5.0	1.1	1		11/26/19 21:07	7439-96-5	
8260 MSV		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/26/19 16:05	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/26/19 16:05	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/26/19 16:05	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/26/19 16:05	79-00-5	
1,1-Dichloroethane	1.8	ug/L	1.0	0.27	1		11/26/19 16:05	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/26/19 16:05	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/26/19 16:05	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/26/19 16:05	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/26/19 16:05	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/26/19 16:05	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/26/19 16:05	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/26/19 16:05	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/26/19 16:05	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/26/19 16:05	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/26/19 16:05	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/26/19 16:05	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/26/19 16:05	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/26/19 16:05	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/26/19 16:05	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/26/19 16:05	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/26/19 16:05	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/26/19 16:05	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/26/19 16:05	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		11/26/19 16:05	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/26/19 16:05	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/26/19 16:05	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/26/19 16:05	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/26/19 16:05	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/26/19 16:05	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/26/19 16:05	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/26/19 16:05	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/26/19 16:05	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/26/19 16:05	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/26/19 16:05	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/26/19 16:05	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/26/19 16:05	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/26/19 16:05	75-71-8	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

Sample: MW-13R **Lab ID: 40199775015** Collected: 11/20/19 13:33 Received: 11/22/19 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/26/19 16:05	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/26/19 16:05	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/26/19 16:05	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/26/19 16:05	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/26/19 16:05	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/26/19 16:05	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/26/19 16:05	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		11/26/19 16:05	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/26/19 16:05	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/26/19 16:05	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		11/26/19 16:05	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/26/19 16:05	75-69-4	
Vinyl chloride	10.0	ug/L	1.0	0.17	1		11/26/19 16:05	75-01-4	
cis-1,2-Dichloroethene	2.8	ug/L	1.0	0.27	1		11/26/19 16:05	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/26/19 16:05	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/26/19 16:05	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/26/19 16:05	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/26/19 16:05	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/26/19 16:05	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/26/19 16:05	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/26/19 16:05	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/26/19 16:05	98-06-6	
trans-1,2-Dichloroethene	1.4J	ug/L	3.6	1.1	1		11/26/19 16:05	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/26/19 16:05	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	93	%	70-130		1		11/26/19 16:05	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		11/26/19 16:05	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		11/26/19 16:05	2037-26-5	

300.0 IC Anions Analytical Method: EPA 300.0									
Sulfate	102	mg/L	10.0	2.2	5		12/05/19 03:11	14808-79-8	

310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	522	mg/L	47.0	14.1	2		12/03/19 12:32		

5310C TOC Analytical Method: SM 5310C									
Total Organic Carbon	5.5	mg/L	1.5	0.45	3		12/03/19 21:33	7440-44-0	

Sample: MW-12 **Lab ID: 40199775016** Collected: 11/20/19 14:33 Received: 11/22/19 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/26/19 16:26	630-20-6	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199775

Sample: MW-12 **Lab ID: 40199775016** Collected: 11/20/19 14:33 Received: 11/22/19 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/26/19 16:26	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/26/19 16:26	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/26/19 16:26	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/26/19 16:26	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/26/19 16:26	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/26/19 16:26	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/26/19 16:26	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/26/19 16:26	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/26/19 16:26	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/26/19 16:26	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/26/19 16:26	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/26/19 16:26	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/26/19 16:26	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/26/19 16:26	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/26/19 16:26	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/26/19 16:26	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/26/19 16:26	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/26/19 16:26	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/26/19 16:26	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/26/19 16:26	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/26/19 16:26	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/26/19 16:26	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		11/26/19 16:26	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/26/19 16:26	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/26/19 16:26	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/26/19 16:26	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/26/19 16:26	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/26/19 16:26	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/26/19 16:26	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/26/19 16:26	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/26/19 16:26	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/26/19 16:26	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/26/19 16:26	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/26/19 16:26	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/26/19 16:26	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/26/19 16:26	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/26/19 16:26	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/26/19 16:26	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/26/19 16:26	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/26/19 16:26	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/26/19 16:26	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/26/19 16:26	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/26/19 16:26	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		11/26/19 16:26	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/26/19 16:26	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/26/19 16:26	108-88-3	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

Sample: MW-12 **Lab ID: 40199775016** Collected: 11/20/19 14:33 Received: 11/22/19 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Trichloroethene	<0.26	ug/L	1.0	0.26	1		11/26/19 16:26	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/26/19 16:26	75-69-4	
Vinyl chloride	0.40J	ug/L	1.0	0.17	1		11/26/19 16:26	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		11/26/19 16:26	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/26/19 16:26	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/26/19 16:26	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/26/19 16:26	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/26/19 16:26	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/26/19 16:26	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/26/19 16:26	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/26/19 16:26	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/26/19 16:26	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		11/26/19 16:26	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/26/19 16:26	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		1		11/26/19 16:26	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		11/26/19 16:26	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		11/26/19 16:26	2037-26-5	

Sample: MW-41 **Lab ID: 40199775017** Collected: 11/20/19 11:54 Received: 11/22/19 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Ethane	<1.2	ug/L	5.6	1.2	1		11/26/19 11:24	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		11/26/19 11:24	74-85-1	
Methane	<0.66	ug/L	2.8	0.66	1		11/26/19 11:24	74-82-8	
6010 MET ICP, Dissolved Analytical Method: EPA 6010									
Iron, Dissolved	93.0J	ug/L	100	29.6	1		11/26/19 21:09	7439-89-6	
Manganese, Dissolved	805	ug/L	5.0	1.1	1		11/26/19 21:09	7439-96-5	
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/26/19 16:48	630-20-6	
1,1,1-Trichloroethane	2.1	ug/L	1.0	0.24	1		11/26/19 16:48	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/26/19 16:48	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/26/19 16:48	79-00-5	
1,1-Dichloroethane	1.7	ug/L	1.0	0.27	1		11/26/19 16:48	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/26/19 16:48	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/26/19 16:48	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/26/19 16:48	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/26/19 16:48	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/26/19 16:48	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/26/19 16:48	95-63-6	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199775

Sample: MW-41 Lab ID: 40199775017 Collected: 11/20/19 11:54 Received: 11/22/19 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/26/19 16:48	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/26/19 16:48	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/26/19 16:48	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/26/19 16:48	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/26/19 16:48	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/26/19 16:48	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/26/19 16:48	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/26/19 16:48	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/26/19 16:48	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/26/19 16:48	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/26/19 16:48	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/26/19 16:48	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		11/26/19 16:48	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/26/19 16:48	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/26/19 16:48	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/26/19 16:48	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/26/19 16:48	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/26/19 16:48	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/26/19 16:48	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/26/19 16:48	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/26/19 16:48	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/26/19 16:48	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/26/19 16:48	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/26/19 16:48	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/26/19 16:48	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/26/19 16:48	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/26/19 16:48	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/26/19 16:48	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/26/19 16:48	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/26/19 16:48	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/26/19 16:48	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/26/19 16:48	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/26/19 16:48	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		11/26/19 16:48	100-42-5	
Tetrachloroethene	1.1J	ug/L	1.1	0.33	1		11/26/19 16:48	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/26/19 16:48	108-88-3	
Trichloroethene	30.2	ug/L	1.0	0.26	1		11/26/19 16:48	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/26/19 16:48	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/26/19 16:48	75-01-4	
cis-1,2-Dichloroethene	3.6	ug/L	1.0	0.27	1		11/26/19 16:48	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/26/19 16:48	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/26/19 16:48	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/26/19 16:48	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/26/19 16:48	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/26/19 16:48	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/26/19 16:48	99-87-6	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

Sample: MW-41									
		Lab ID: 40199775017		Collected: 11/20/19 11:54		Received: 11/22/19 08:55		Matrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/26/19 16:48	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/26/19 16:48	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		11/26/19 16:48	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/26/19 16:48	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		1		11/26/19 16:48	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		11/26/19 16:48	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		11/26/19 16:48	2037-26-5	
300.0 IC Anions									
Analytical Method: EPA 300.0									
Sulfate	43.1	mg/L	10.0	2.2	5		12/04/19 15:41	14808-79-8	
310.2 Alkalinity									
Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	401	mg/L	47.0	14.1	2		12/03/19 12:33		
5310C TOC									
Analytical Method: SM 5310C									
Total Organic Carbon	57.7	mg/L	15.0	4.5	30		12/04/19 10:20	7440-44-0	

Sample: OP-3									
		Lab ID: 40199775018		Collected: 11/20/19 14:50		Received: 11/22/19 08:55		Matrix: Water	
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV									
Analytical Method: EPA 8015B Modified									
Ethane	6.6	ug/L	5.6	1.2	1		11/26/19 11:31	74-84-0	
Ethene	7.1	ug/L	5.0	1.2	1		11/26/19 11:31	74-85-1	
Methane	272	ug/L	5.6	1.3	2		11/26/19 12:40	74-82-8	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010									
Iron, Dissolved	502	ug/L	100	29.6	1		11/26/19 21:12	7439-89-6	
Manganese, Dissolved	188	ug/L	5.0	1.1	1		11/26/19 21:12	7439-96-5	
8260 MSV									
Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<1.3	ug/L	5.0	1.3	5		11/26/19 17:09	630-20-6	
1,1,1-Trichloroethane	179	ug/L	5.0	1.2	5		11/26/19 17:09	71-55-6	
1,1,2,2-Tetrachloroethane	<1.4	ug/L	5.0	1.4	5		11/26/19 17:09	79-34-5	
1,1,2-Trichloroethane	<2.8	ug/L	25.0	2.8	5		11/26/19 17:09	79-00-5	
1,1-Dichloroethane	90.7	ug/L	5.0	1.4	5		11/26/19 17:09	75-34-3	
1,1-Dichloroethene	27.5	ug/L	5.0	1.2	5		11/26/19 17:09	75-35-4	
1,1-Dichloropropene	<2.7	ug/L	9.0	2.7	5		11/26/19 17:09	563-58-6	
1,2,3-Trichlorobenzene	<3.1	ug/L	25.0	3.1	5		11/26/19 17:09	87-61-6	
1,2,3-Trichloropropane	<3.0	ug/L	25.0	3.0	5		11/26/19 17:09	96-18-4	
1,2,4-Trichlorobenzene	<4.8	ug/L	25.0	4.8	5		11/26/19 17:09	120-82-1	
1,2,4-Trimethylbenzene	<4.2	ug/L	14.0	4.2	5		11/26/19 17:09	95-63-6	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199775

Sample: OP-3 **Lab ID: 40199775018** Collected: 11/20/19 14:50 Received: 11/22/19 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,2-Dibromo-3-chloropropane	<8.8	ug/L	29.4	8.8	5		11/26/19 17:09	96-12-8	
1,2-Dibromoethane (EDB)	<4.1	ug/L	13.8	4.1	5		11/26/19 17:09	106-93-4	
1,2-Dichlorobenzene	<3.5	ug/L	11.8	3.5	5		11/26/19 17:09	95-50-1	
1,2-Dichloroethane	<1.4	ug/L	5.0	1.4	5		11/26/19 17:09	107-06-2	
1,2-Dichloropropane	<1.4	ug/L	5.0	1.4	5		11/26/19 17:09	78-87-5	
1,3,5-Trimethylbenzene	<4.4	ug/L	14.6	4.4	5		11/26/19 17:09	108-67-8	
1,3-Dichlorobenzene	<3.1	ug/L	10.5	3.1	5		11/26/19 17:09	541-73-1	
1,3-Dichloropropane	<4.1	ug/L	13.8	4.1	5		11/26/19 17:09	142-28-9	
1,4-Dichlorobenzene	<4.7	ug/L	15.7	4.7	5		11/26/19 17:09	106-46-7	
2,2-Dichloropropane	<11.3	ug/L	37.8	11.3	5		11/26/19 17:09	594-20-7	
2-Chlorotoluene	<4.6	ug/L	25.0	4.6	5		11/26/19 17:09	95-49-8	
4-Chlorotoluene	<3.8	ug/L	12.6	3.8	5		11/26/19 17:09	106-43-4	
Benzene	<1.2	ug/L	5.0	1.2	5		11/26/19 17:09	71-43-2	
Bromobenzene	<1.2	ug/L	5.0	1.2	5		11/26/19 17:09	108-86-1	
Bromochloromethane	<1.8	ug/L	25.0	1.8	5		11/26/19 17:09	74-97-5	
Bromodichloromethane	<1.8	ug/L	6.1	1.8	5		11/26/19 17:09	75-27-4	
Bromoform	<19.9	ug/L	66.2	19.9	5		11/26/19 17:09	75-25-2	
Bromomethane	<4.9	ug/L	25.0	4.9	5		11/26/19 17:09	74-83-9	
Carbon tetrachloride	<0.83	ug/L	5.0	0.83	5		11/26/19 17:09	56-23-5	
Chlorobenzene	<3.6	ug/L	11.8	3.6	5		11/26/19 17:09	108-90-7	
Chloroethane	8.7J	ug/L	25.0	6.7	5		11/26/19 17:09	75-00-3	
Chloroform	<6.4	ug/L	25.0	6.4	5		11/26/19 17:09	67-66-3	
Chloromethane	<10.9	ug/L	36.5	10.9	5		11/26/19 17:09	74-87-3	
Dibromochloromethane	<13.0	ug/L	43.4	13.0	5		11/26/19 17:09	124-48-1	
Dibromomethane	<4.7	ug/L	15.6	4.7	5		11/26/19 17:09	74-95-3	
Dichlorodifluoromethane	<2.5	ug/L	25.0	2.5	5		11/26/19 17:09	75-71-8	
Diisopropyl ether	<9.4	ug/L	31.5	9.4	5		11/26/19 17:09	108-20-3	
Ethylbenzene	<1.1	ug/L	5.0	1.1	5		11/26/19 17:09	100-41-4	
Hexachloro-1,3-butadiene	<5.9	ug/L	25.0	5.9	5		11/26/19 17:09	87-68-3	
Isopropylbenzene (Cumene)	<2.0	ug/L	25.0	2.0	5		11/26/19 17:09	98-82-8	
Methyl-tert-butyl ether	<6.2	ug/L	20.8	6.2	5		11/26/19 17:09	1634-04-4	
Methylene Chloride	<2.9	ug/L	25.0	2.9	5		11/26/19 17:09	75-09-2	
Naphthalene	<5.9	ug/L	25.0	5.9	5		11/26/19 17:09	91-20-3	
Styrene	<2.3	ug/L	7.8	2.3	5		11/26/19 17:09	100-42-5	
Tetrachloroethene	<1.6	ug/L	5.4	1.6	5		11/26/19 17:09	127-18-4	
Toluene	<0.86	ug/L	25.0	0.86	5		11/26/19 17:09	108-88-3	
Trichloroethene	474	ug/L	5.0	1.3	5		11/26/19 17:09	79-01-6	
Trichlorofluoromethane	<1.1	ug/L	5.0	1.1	5		11/26/19 17:09	75-69-4	
Vinyl chloride	49.4	ug/L	5.0	0.87	5		11/26/19 17:09	75-01-4	
cis-1,2-Dichloroethene	382	ug/L	5.0	1.4	5		11/26/19 17:09	156-59-2	
cis-1,3-Dichloropropene	<18.1	ug/L	60.5	18.1	5		11/26/19 17:09	10061-01-5	
m&p-Xylene	<2.3	ug/L	10.0	2.3	5		11/26/19 17:09	179601-23-1	
n-Butylbenzene	<3.5	ug/L	11.8	3.5	5		11/26/19 17:09	104-51-8	
n-Propylbenzene	<4.1	ug/L	25.0	4.1	5		11/26/19 17:09	103-65-1	
o-Xylene	<1.3	ug/L	5.0	1.3	5		11/26/19 17:09	95-47-6	
p-Isopropyltoluene	<4.0	ug/L	13.3	4.0	5		11/26/19 17:09	99-87-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

Sample: OP-3 Lab ID: 40199775018 Collected: 11/20/19 14:50 Received: 11/22/19 08:55 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
sec-Butylbenzene	<4.2	ug/L	25.0	4.2	5		11/26/19 17:09	135-98-8	
tert-Butylbenzene	<1.5	ug/L	5.1	1.5	5		11/26/19 17:09	98-06-6	
trans-1,2-Dichloroethene	11.8J	ug/L	18.2	5.5	5		11/26/19 17:09	156-60-5	
trans-1,3-Dichloropropene	<21.9	ug/L	72.8	21.9	5		11/26/19 17:09	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	95	%	70-130		5		11/26/19 17:09	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		5		11/26/19 17:09	1868-53-7	
Toluene-d8 (S)	97	%	70-130		5		11/26/19 17:09	2037-26-5	
300.0 IC Anions Analytical Method: EPA 300.0									
Sulfate	37.5	mg/L	2.0	0.44	1		12/04/19 15:54	14808-79-8	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	396	mg/L	47.0	14.1	2		12/03/19 12:33		
5310C TOC Analytical Method: SM 5310C									
Total Organic Carbon	2.3	mg/L	0.50	0.15	1		12/03/19 22:15	7440-44-0	

Sample: TRIP Lab ID: 40199775019 Collected: 11/20/19 00:00 Received: 11/22/19 08:55 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/26/19 08:35	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/26/19 08:35	71-55-6	
1,1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/26/19 08:35	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/26/19 08:35	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/26/19 08:35	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/26/19 08:35	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/26/19 08:35	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/26/19 08:35	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/26/19 08:35	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/26/19 08:35	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/26/19 08:35	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/26/19 08:35	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/26/19 08:35	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/26/19 08:35	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/26/19 08:35	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/26/19 08:35	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/26/19 08:35	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/26/19 08:35	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/26/19 08:35	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/26/19 08:35	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/26/19 08:35	594-20-7	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

Sample: TRIP **Lab ID:** 40199775019 Collected: 11/20/19 00:00 Received: 11/22/19 08:55 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/26/19 08:35	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/26/19 08:35	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		11/26/19 08:35	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/26/19 08:35	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/26/19 08:35	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/26/19 08:35	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/26/19 08:35	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/26/19 08:35	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/26/19 08:35	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/26/19 08:35	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/26/19 08:35	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/26/19 08:35	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/26/19 08:35	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/26/19 08:35	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/26/19 08:35	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/26/19 08:35	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/26/19 08:35	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/26/19 08:35	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/26/19 08:35	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/26/19 08:35	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/26/19 08:35	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/26/19 08:35	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/26/19 08:35	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		11/26/19 08:35	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/26/19 08:35	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/26/19 08:35	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		11/26/19 08:35	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/26/19 08:35	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/26/19 08:35	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		11/26/19 08:35	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/26/19 08:35	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/26/19 08:35	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/26/19 08:35	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/26/19 08:35	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/26/19 08:35	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/26/19 08:35	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/26/19 08:35	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/26/19 08:35	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		11/26/19 08:35	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/26/19 08:35	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	94	%	70-130		1		11/26/19 08:35	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		11/26/19 08:35	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		11/26/19 08:35	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

QC Batch: 341854 Analysis Method: EPA 8015B Modified
QC Batch Method: EPA 8015B Modified Analysis Description: Methane, Ethane, Ethene GCV
Associated Lab Samples: 40199775001, 40199775002, 40199775003, 40199775004, 40199775005, 40199775006, 40199775007, 40199775009, 40199775010, 40199775011, 40199775012, 40199775015, 40199775017, 40199775018

METHOD BLANK: 1985615 Matrix: Water
Associated Lab Samples: 40199775001, 40199775002, 40199775003, 40199775004, 40199775005, 40199775006, 40199775007, 40199775009, 40199775010, 40199775011, 40199775012, 40199775015, 40199775017, 40199775018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	<1.2	5.6	11/26/19 08:24	
Ethene	ug/L	<1.2	5.0	11/26/19 08:24	
Methane	ug/L	<0.66	2.8	11/26/19 08:24	

LABORATORY CONTROL SAMPLE & LCSD: 1985616 1985617

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	53.6	54.7	54.7	102	102	80-120	0	20	
Ethene	ug/L	50	50.8	50.7	102	101	80-120	0	20	
Methane	ug/L	28.6	27.9	27.9	98	98	80-120	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1985903 1985904

Parameter	Units	40199775005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Ethane	ug/L	<1.2	53.6	53.6	52.1	49.3	97	92	80-120	6	20	
Ethene	ug/L	<1.2	50	50	47.9	45.3	96	91	80-120	6	20	
Methane	ug/L	<0.66	28.6	28.6	26.2	25.0	92	88	77-122	5	20	

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

QC Batch: 341922 Analysis Method: EPA 6010
QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved
Associated Lab Samples: 40199775001, 40199775002, 40199775003, 40199775004, 40199775005, 40199775006, 40199775007, 40199775009, 40199775010, 40199775011, 40199775012, 40199775015, 40199775017, 40199775018

METHOD BLANK: 1985825 Matrix: Water
Associated Lab Samples: 40199775001, 40199775002, 40199775003, 40199775004, 40199775005, 40199775006, 40199775007, 40199775009, 40199775010, 40199775011, 40199775012, 40199775015, 40199775017, 40199775018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Dissolved	ug/L	<29.6	100	11/26/19 20:26	
Manganese, Dissolved	ug/L	<1.1	5.0	11/26/19 20:26	

LABORATORY CONTROL SAMPLE: 1985826

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	ug/L	5000	4790	96	80-120	
Manganese, Dissolved	ug/L	500	482	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1985827 1985828

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40199775001 Result	Spike Conc.	Spike Conc.	Conc.								
Iron, Dissolved	ug/L	<29.6	5000	5000	4640	4610	93	92	75-125	1	20		
Manganese, Dissolved	ug/L	79.6	500	500	552	552	94	95	75-125	0	20		

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

QC Batch: 341729 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40199775001, 40199775002, 40199775003, 40199775004, 40199775005, 40199775006, 40199775007, 40199775008, 40199775009, 40199775010, 40199775011, 40199775012, 40199775013, 40199775014, 40199775015, 40199775016, 40199775017, 40199775018, 40199775019

METHOD BLANK: 1985174 Matrix: Water
Associated Lab Samples: 40199775001, 40199775002, 40199775003, 40199775004, 40199775005, 40199775006, 40199775007, 40199775008, 40199775009, 40199775010, 40199775011, 40199775012, 40199775013, 40199775014, 40199775015, 40199775016, 40199775017, 40199775018, 40199775019

Parameter	Units	Blank Reporting		Analyzed	Qualifiers
		Result	Limit		
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	11/26/19 06:27	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	11/26/19 06:27	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	11/26/19 06:27	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	11/26/19 06:27	
1,1-Dichloroethane	ug/L	<0.27	1.0	11/26/19 06:27	
1,1-Dichloroethene	ug/L	<0.24	1.0	11/26/19 06:27	
1,1-Dichloropropene	ug/L	<0.54	1.8	11/26/19 06:27	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	11/26/19 06:27	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	11/26/19 06:27	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	11/26/19 06:27	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	11/26/19 06:27	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	11/26/19 06:27	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	11/26/19 06:27	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	11/26/19 06:27	
1,2-Dichloroethane	ug/L	<0.28	1.0	11/26/19 06:27	
1,2-Dichloropropane	ug/L	<0.28	1.0	11/26/19 06:27	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	11/26/19 06:27	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	11/26/19 06:27	
1,3-Dichloropropane	ug/L	<0.83	2.8	11/26/19 06:27	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	11/26/19 06:27	
2,2-Dichloropropane	ug/L	<2.3	7.6	11/26/19 06:27	
2-Chlorotoluene	ug/L	<0.93	5.0	11/26/19 06:27	
4-Chlorotoluene	ug/L	<0.76	2.5	11/26/19 06:27	
Benzene	ug/L	<0.25	1.0	11/26/19 06:27	
Bromobenzene	ug/L	<0.24	1.0	11/26/19 06:27	
Bromochloromethane	ug/L	<0.36	5.0	11/26/19 06:27	
Bromodichloromethane	ug/L	<0.36	1.2	11/26/19 06:27	
Bromoform	ug/L	<4.0	13.2	11/26/19 06:27	
Bromomethane	ug/L	<0.97	5.0	11/26/19 06:27	
Carbon tetrachloride	ug/L	<0.17	1.0	11/26/19 06:27	
Chlorobenzene	ug/L	<0.71	2.4	11/26/19 06:27	
Chloroethane	ug/L	<1.3	5.0	11/26/19 06:27	
Chloroform	ug/L	<1.3	5.0	11/26/19 06:27	
Chloromethane	ug/L	<2.2	7.3	11/26/19 06:27	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	11/26/19 06:27	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	11/26/19 06:27	
Dibromochloromethane	ug/L	<2.6	8.7	11/26/19 06:27	
Dibromomethane	ug/L	<0.94	3.1	11/26/19 06:27	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

METHOD BLANK: 1985174

Matrix: Water

Associated Lab Samples: 40199775001, 40199775002, 40199775003, 40199775004, 40199775005, 40199775006, 40199775007, 40199775008, 40199775009, 40199775010, 40199775011, 40199775012, 40199775013, 40199775014, 40199775015, 40199775016, 40199775017, 40199775018, 40199775019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	<0.50	5.0	11/26/19 06:27	
Diisopropyl ether	ug/L	<1.9	6.3	11/26/19 06:27	
Ethylbenzene	ug/L	<0.22	1.0	11/26/19 06:27	
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	11/26/19 06:27	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	11/26/19 06:27	
m&p-Xylene	ug/L	<0.47	2.0	11/26/19 06:27	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	11/26/19 06:27	
Methylene Chloride	ug/L	<0.58	5.0	11/26/19 06:27	
n-Butylbenzene	ug/L	<0.71	2.4	11/26/19 06:27	
n-Propylbenzene	ug/L	<0.81	5.0	11/26/19 06:27	
Naphthalene	ug/L	<1.2	5.0	11/26/19 06:27	
o-Xylene	ug/L	<0.26	1.0	11/26/19 06:27	
p-Isopropyltoluene	ug/L	<0.80	2.7	11/26/19 06:27	
sec-Butylbenzene	ug/L	<0.85	5.0	11/26/19 06:27	
Styrene	ug/L	<0.47	1.6	11/26/19 06:27	
tert-Butylbenzene	ug/L	<0.30	1.0	11/26/19 06:27	
Tetrachloroethene	ug/L	<0.33	1.1	11/26/19 06:27	
Toluene	ug/L	<0.17	5.0	11/26/19 06:27	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	11/26/19 06:27	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	11/26/19 06:27	
Trichloroethene	ug/L	<0.26	1.0	11/26/19 06:27	
Trichlorofluoromethane	ug/L	<0.21	1.0	11/26/19 06:27	
Vinyl chloride	ug/L	<0.17	1.0	11/26/19 06:27	
4-Bromofluorobenzene (S)	%	95	70-130	11/26/19 06:27	
Dibromofluoromethane (S)	%	100	70-130	11/26/19 06:27	
Toluene-d8 (S)	%	99	70-130	11/26/19 06:27	

LABORATORY CONTROL SAMPLE: 1985175

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	49.4	99	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	49.1	98	70-130	
1,1,2-Trichloroethane	ug/L	50	49.3	99	70-130	
1,1-Dichloroethane	ug/L	50	53.8	108	73-150	
1,1-Dichloroethene	ug/L	50	50.4	101	73-138	
1,2,4-Trichlorobenzene	ug/L	50	50.8	102	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	39.7	79	64-129	
1,2-Dibromoethane (EDB)	ug/L	50	49.6	99	70-130	
1,2-Dichlorobenzene	ug/L	50	50.7	101	70-130	
1,2-Dichloroethane	ug/L	50	49.2	98	75-140	
1,2-Dichloropropane	ug/L	50	49.3	99	73-135	
1,3-Dichlorobenzene	ug/L	50	50.8	102	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199775

LABORATORY CONTROL SAMPLE: 1985175

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	50.2	100	70-130	
Benzene	ug/L	50	52.3	105	70-130	
Bromodichloromethane	ug/L	50	48.4	97	70-130	
Bromoform	ug/L	50	42.3	85	68-129	
Bromomethane	ug/L	50	35.3	71	18-159	
Carbon tetrachloride	ug/L	50	43.3	87	70-130	
Chlorobenzene	ug/L	50	52.2	104	70-130	
Chloroethane	ug/L	50	51.3	103	53-147	
Chloroform	ug/L	50	49.5	99	74-136	
Chloromethane	ug/L	50	38.3	77	29-115	
cis-1,2-Dichloroethene	ug/L	50	51.3	103	70-130	
cis-1,3-Dichloropropene	ug/L	50	48.6	97	70-130	
Dibromochloromethane	ug/L	50	47.5	95	70-130	
Dichlorodifluoromethane	ug/L	50	32.6	65	10-130	
Ethylbenzene	ug/L	50	52.1	104	80-124	
Isopropylbenzene (Cumene)	ug/L	50	52.7	105	70-130	
m&p-Xylene	ug/L	100	104	104	70-130	
Methyl-tert-butyl ether	ug/L	50	46.2	92	54-137	
Methylene Chloride	ug/L	50	51.1	102	73-138	
o-Xylene	ug/L	50	52.1	104	70-130	
Styrene	ug/L	50	52.5	105	70-130	
Tetrachloroethene	ug/L	50	49.5	99	70-130	
Toluene	ug/L	50	52.1	104	80-126	
trans-1,2-Dichloroethene	ug/L	50	53.3	107	73-145	
trans-1,3-Dichloropropene	ug/L	50	40.0	80	70-130	
Trichloroethene	ug/L	50	53.5	107	70-130	
Trichlorofluoromethane	ug/L	50	51.0	102	76-147	
Vinyl chloride	ug/L	50	45.1	90	51-120	
4-Bromofluorobenzene (S)	%			97	70-130	
Dibromofluoromethane (S)	%			99	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1985584 1985585

Parameter	Units	40199775007 Result	MS Spike Conc.	MSD Spike Conc.	1985584		1985585		% Rec Limits	Max RPD	Qual
					MS Result	MSD Result	MS % Rec	MSD % Rec			
1,1,1-Trichloroethane	ug/L	0.31J	50	50	50.5	51.4	100	102	70-130	2	20
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	49.6	51.3	99	103	70-130	3	20
1,1,2-Trichloroethane	ug/L	<0.55	50	50	51.0	50.4	102	101	70-137	1	20
1,1-Dichloroethane	ug/L	<0.27	50	50	55.2	55.3	110	111	73-153	0	20
1,1-Dichloroethene	ug/L	<0.24	50	50	51.1	52.8	102	106	73-138	3	20
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	51.0	52.2	102	104	70-130	2	20
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	42.9	42.2	86	84	58-129	2	20
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	50.1	50.4	100	101	70-130	1	20

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

Parameter	Units	1985584		1985585		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40199775007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
1,2-Dichlorobenzene	ug/L	<0.71	50	50	52.9	53.3	106	107	70-130	1	20		
1,2-Dichloroethane	ug/L	<0.28	50	50	50.3	49.7	101	99	75-140	1	20		
1,2-Dichloropropane	ug/L	<0.28	50	50	49.5	50.5	99	101	71-138	2	20		
1,3-Dichlorobenzene	ug/L	<0.63	50	50	52.4	54.0	105	108	70-130	3	20		
1,4-Dichlorobenzene	ug/L	<0.94	50	50	51.7	51.9	103	104	70-130	0	20		
Benzene	ug/L	<0.25	50	50	52.2	53.2	104	106	70-130	2	20		
Bromodichloromethane	ug/L	<0.36	50	50	50.3	49.7	101	99	70-130	1	20		
Bromoform	ug/L	<4.0	50	50	42.2	42.0	84	84	68-129	0	20		
Bromomethane	ug/L	<0.97	50	50	38.5	40.4	77	81	15-170	5	20		
Carbon tetrachloride	ug/L	<0.17	50	50	44.3	44.3	89	89	70-130	0	20		
Chlorobenzene	ug/L	<0.71	50	50	53.4	52.4	107	105	70-130	2	20		
Chloroethane	ug/L	<1.3	50	50	50.9	50.2	102	100	51-148	1	20		
Chloroform	ug/L	<1.3	50	50	49.1	50.2	98	100	74-136	2	20		
Chloromethane	ug/L	<2.2	50	50	37.3	39.5	75	79	23-115	6	20		
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	51.5	50.8	103	102	70-131	1	20		
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	49.7	49.4	99	99	70-130	1	20		
Dibromochloromethane	ug/L	<2.6	50	50	47.4	47.1	95	94	70-130	1	20		
Dichlorodifluoromethane	ug/L	<0.50	50	50	32.3	32.5	65	65	10-132	0	20		
Ethylbenzene	ug/L	<0.22	50	50	53.3	52.8	107	106	80-125	1	20		
Isopropylbenzene (Cumene)	ug/L	<0.39	50	50	53.4	52.0	107	104	70-130	3	20		
m&p-Xylene	ug/L	<0.47	100	100	104	105	104	105	70-130	0	20		
Methyl-tert-butyl ether	ug/L	<1.2	50	50	46.9	49.0	94	98	51-145	4	20		
Methylene Chloride	ug/L	<0.58	50	50	52.6	53.5	105	107	73-140	2	20		
o-Xylene	ug/L	<0.26	50	50	51.9	52.0	104	104	70-130	0	20		
Styrene	ug/L	<0.47	50	50	52.6	52.2	105	104	70-130	1	20		
Tetrachloroethene	ug/L	<0.33	50	50	50.8	49.8	101	99	70-130	2	20		
Toluene	ug/L	<0.17	50	50	52.7	51.9	105	104	80-131	1	20		
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	53.4	54.1	107	108	73-148	1	20		
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	40.7	40.9	81	82	70-130	0	20		
Trichloroethene	ug/L	0.57J	50	50	53.9	54.8	107	108	70-130	2	20		
Trichlorofluoromethane	ug/L	<0.21	50	50	52.2	51.8	104	104	74-147	1	20		
Vinyl chloride	ug/L	<0.17	50	50	44.6	45.7	89	91	41-129	2	20		
4-Bromofluorobenzene (S)	%						97	96	70-130				
Dibromofluoromethane (S)	%						98	98	70-130				
Toluene-d8 (S)	%						97	97	70-130				

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

QC Batch: 342231 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 40199775001, 40199775002, 40199775003, 40199775004, 40199775005, 40199775006, 40199775007, 40199775009, 40199775010, 40199775011, 40199775012, 40199775015, 40199775017, 40199775018

METHOD BLANK: 1987472 Matrix: Water
Associated Lab Samples: 40199775001, 40199775002, 40199775003, 40199775004, 40199775005, 40199775006, 40199775007, 40199775009, 40199775010, 40199775011, 40199775012, 40199775015, 40199775017, 40199775018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<0.44	2.0	12/04/19 10:37	

LABORATORY CONTROL SAMPLE: 1987473

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	20.2	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1987474 1987475

Parameter	Units	40199545001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Result							
Sulfate	mg/L	68.2	400	479	479	103	103	90-110	0	15		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1987476 1987477

Parameter	Units	40199817008 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Result							
Sulfate	mg/L	78.4	100	180	177	101	98	90-110	2	15		

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199775

QC Batch:	342297	Analysis Method:	EPA 310.2
QC Batch Method:	EPA 310.2	Analysis Description:	310.2 Alkalinity
Associated Lab Samples:	40199775001, 40199775002, 40199775003, 40199775004, 40199775005, 40199775006, 40199775007, 40199775009, 40199775010, 40199775011, 40199775012, 40199775015, 40199775017, 40199775018		

METHOD BLANK:	1987719	Matrix:	Water
Associated Lab Samples:	40199775001, 40199775002, 40199775003, 40199775004, 40199775005, 40199775006, 40199775007, 40199775009, 40199775010, 40199775011, 40199775012, 40199775015, 40199775017, 40199775018		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<7.0	23.5	12/03/19 12:19	

LABORATORY CONTROL SAMPLE: 1987720

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	100	101	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1987721 1987722

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40199775011 Result	Spike Conc.	Spike Conc.	Conc.								
Alkalinity, Total as CaCO3	mg/L	431	500	500	500	906	911	95	96	90-110	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1987723 1987724

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40199653001 Result	Spike Conc.	Spike Conc.	Conc.								
Alkalinity, Total as CaCO3	mg/L	120	500	500	500	575	617	91	100	90-110	7	20	

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

QC Batch: 342282 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 40199775001, 40199775002, 40199775003, 40199775004, 40199775005, 40199775009, 40199775010, 40199775011, 40199775012, 40199775015, 40199775017, 40199775018

METHOD BLANK: 1987653 Matrix: Water
Associated Lab Samples: 40199775001, 40199775002, 40199775003, 40199775004, 40199775005, 40199775009, 40199775010, 40199775011, 40199775012, 40199775015, 40199775017, 40199775018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<0.15	0.50	12/03/19 13:30	

LABORATORY CONTROL SAMPLE: 1987654

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	2.5	2.3	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1987655 1987656

Parameter	Units	40199775001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Total Organic Carbon	mg/L	5.7	6	6	11.4	11.2	96	93	80-120	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1987657 1987658

Parameter	Units	40199775002 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Total Organic Carbon	mg/L	4.3	3	3	7.3	7.3	100	101	80-120	0	10	

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QUALIFIERS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199775

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40199775001	MW-1R	EPA 8015B Modified	341854		
40199775002	OP-14	EPA 8015B Modified	341854		
40199775003	MW-2	EPA 8015B Modified	341854		
40199775004	MW-4	EPA 8015B Modified	341854		
40199775005	MW-42	EPA 8015B Modified	341854		
40199775006	OP-9	EPA 8015B Modified	341854		
40199775007	MW-38	EPA 8015B Modified	341854		
40199775009	DUP	EPA 8015B Modified	341854		
40199775010	MW-40	EPA 8015B Modified	341854		
40199775011	MW-16	EPA 8015B Modified	341854		
40199775012	OP-2	EPA 8015B Modified	341854		
40199775015	MW-13R	EPA 8015B Modified	341854		
40199775017	MW-41	EPA 8015B Modified	341854		
40199775018	OP-3	EPA 8015B Modified	341854		
40199775001	MW-1R	EPA 6010	341922		
40199775002	OP-14	EPA 6010	341922		
40199775003	MW-2	EPA 6010	341922		
40199775004	MW-4	EPA 6010	341922		
40199775005	MW-42	EPA 6010	341922		
40199775006	OP-9	EPA 6010	341922		
40199775007	MW-38	EPA 6010	341922		
40199775009	DUP	EPA 6010	341922		
40199775010	MW-40	EPA 6010	341922		
40199775011	MW-16	EPA 6010	341922		
40199775012	OP-2	EPA 6010	341922		
40199775015	MW-13R	EPA 6010	341922		
40199775017	MW-41	EPA 6010	341922		
40199775018	OP-3	EPA 6010	341922		
40199775001	MW-1R	EPA 8260	341729		
40199775002	OP-14	EPA 8260	341729		
40199775003	MW-2	EPA 8260	341729		
40199775004	MW-4	EPA 8260	341729		
40199775005	MW-42	EPA 8260	341729		
40199775006	OP-9	EPA 8260	341729		
40199775007	MW-38	EPA 8260	341729		
40199775008	MW-29	EPA 8260	341729		
40199775009	DUP	EPA 8260	341729		
40199775010	MW-40	EPA 8260	341729		
40199775011	MW-16	EPA 8260	341729		
40199775012	OP-2	EPA 8260	341729		
40199775013	MW-25	EPA 8260	341729		
40199775014	MW-27	EPA 8260	341729		
40199775015	MW-13R	EPA 8260	341729		
40199775016	MW-12	EPA 8260	341729		
40199775017	MW-41	EPA 8260	341729		
40199775018	OP-3	EPA 8260	341729		
40199775019	TRIP	EPA 8260	341729		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199775

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40199775001	MW-1R	EPA 300.0	342231		
40199775002	OP-14	EPA 300.0	342231		
40199775003	MW-2	EPA 300.0	342231		
40199775004	MW-4	EPA 300.0	342231		
40199775005	MW-42	EPA 300.0	342231		
40199775006	OP-9	EPA 300.0	342231		
40199775007	MW-38	EPA 300.0	342231		
40199775009	DUP	EPA 300.0	342231		
40199775010	MW-40	EPA 300.0	342231		
40199775011	MW-16	EPA 300.0	342231		
40199775012	OP-2	EPA 300.0	342231		
40199775015	MW-13R	EPA 300.0	342231		
40199775017	MW-41	EPA 300.0	342231		
40199775018	OP-3	EPA 300.0	342231		
40199775001	MW-1R	EPA 310.2	342297		
40199775002	OP-14	EPA 310.2	342297		
40199775003	MW-2	EPA 310.2	342297		
40199775004	MW-4	EPA 310.2	342297		
40199775005	MW-42	EPA 310.2	342297		
40199775006	OP-9	EPA 310.2	342297		
40199775007	MW-38	EPA 310.2	342297		
40199775009	DUP	EPA 310.2	342297		
40199775010	MW-40	EPA 310.2	342297		
40199775011	MW-16	EPA 310.2	342297		
40199775012	OP-2	EPA 310.2	342297		
40199775015	MW-13R	EPA 310.2	342297		
40199775017	MW-41	EPA 310.2	342297		
40199775018	OP-3	EPA 310.2	342297		
40199775001	MW-1R	SM 5310C	342282		
40199775002	OP-14	SM 5310C	342282		
40199775003	MW-2	SM 5310C	342282		
40199775004	MW-4	SM 5310C	342282		
40199775005	MW-42	SM 5310C	342282		
40199775009	DUP	SM 5310C	342282		
40199775010	MW-40	SM 5310C	342282		
40199775011	MW-16	SM 5310C	342282		
40199775012	OP-2	SM 5310C	342282		
40199775015	MW-13R	SM 5310C	342282		
40199775017	MW-41	SM 5310C	342282		
40199775018	OP-3	SM 5310C	342282		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: GZA GeoEnvironmental

Branch/Location: Waukesha

Project Contact: Kevin Hedinger

Phone: 262-424-1761

Project Number: 20.01555935.01

Project Name: Trent Tube

Project State: WI

Sampled By (Print): *AAA/SSS*

Sampled By (Sign):

PO #:

Data Package Options (billable)

- EPA Level III
- EPA Level IV
- On your sample (billable)
- NOT needed on your sample

PAGE LAB #

CLIENT FIELD ID

Regulatory Program:

Matrix Codes

W = Water

B = Biota

C = Charcoal

O = Oil

S = Soil

SI = Sludge

DW = Drinking Water

GW = Ground Water

SW = Surface Water

WW = Waste Water

WP = Waste

DATE

TIME

MATRIX

Analyses Requested

VOC

Dissolved Mn and Fe

Methane, Ethane, Ethene

Sulfate, Alkalinity

TOC

Y/N

Pick Letter

B

D

B

A

C

N

N



CHAIN OF CUSTODY

Preservation Codes
 A=None B=HCL C=H2SO4 D=HNO3 E=D Water F=Methanol G=NaOH
 H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

UPPER MIDWEST REGION
 MN: 612-607-1700 WI: 920-469-2436

COC No. *40199775*

Quote #:

Mail To Contact: Kevin Hedinger

Mail To Company: GZA GeoEnvironmental

Mail To Address: 20900 Swenson Drive, Suite 150 Waukesha, WI 53186

Invoice To Contact: Kevin Hedinger

Invoice To Company: GZA GeoEnvironmental

Invoice To Address: 20900 Swenson Drive, Suite 150 Waukesha, WI 53186

Invoice To Phone:

CLIENT COMMENTS

LAB COMMENTS (Lab Use Only)

Profile #

PAGE LAB #	CLIENT FIELD ID	DATE	TIME	MATRIX	Analyses Requested	Y/N	Pick Letter
001	MWD-1R	11-20-19	10:14	WWD	VOC	X	B
002	OR-14	11-20-19	11:11	WWD	Dissolved Mn and Fe	X	D
003	MWD-2	11-20-19	10:21	WWD	Methane, Ethane, Ethene	X	B
004	MWD-1	11-20-19	11:08	WWD	Sulfate, Alkalinity	X	A
005	MWD-42	11-20-19	12:08	WWD	TOC	X	C
006	OR-9	11-20-19	14:03	WWD		X	
007	MWD-38	11-20-19	12:38	WWD		X	
008	MWD-29	11-20-19	8:23	WWD		X	
009	DSD	11-20-19	N/A	WWD		X	
010	MWD-4D	11-20-19	13:24	WWD		X	
011	MWD-16	11-20-19	12:37	WWD		X	
012	OR-2	11-20-19	14:08	WWD		X	
013	MWD-25	11-20-19	8:50	WWD		X	

Rush Turnaround Time Requested - Prelims
 (Rush TAT subject to approval/surcharge)
 Date Needed:

Relinquished By: *Mary Farnie* 11-21-19 10:17
 Relinquished By: *Mary Farnie* 11/21/19 15:00
 Relinquished By: *ES Lohstis* 11/22/19 08:55

Received By: *Mary Farnie* 11/21/19 10:07
 Received By: *Mary Farnie* 11/21/19 15:00
 Received By: *Brandon Wattle* 11-22-19 08:55

PAGE Project No. *40199775*
 Receipt Temp = *45* °C
 Sample Receipt pH *OK* Adjusted
 Cooler Custody Seal Present / Not Present *Intact* Not Intact

Transmit Prelim Rush Results by (complete what you want):
 Email #1:
 Email #2:
 Telephone:
 Fax:

Special pricing and release of liability

Relinquished By: *Brandon Wattle* 11/22/19 08:55

Version 6.0 10/14/06

(Please Print Clearly)

Company Name: GZA GeoEnvironmental

Branch/Location: Waukesha

Project Contact: Kevin Hedinger

Phone: 262-424-1761

Project Number: 20.0155935.01

Project Name: Tent Tube

Project State: WI

Sampled By (Print): AAAH/SSB

Sampled By (Sign):

PO #:

Data Package Options

- EPA Level III
- EPA Level IV
- On your sample (billable)
- NOT needed on your sample

CLIENT FIELD ID

PACE LAB #

DATE

TIME

MATRIX

Analyses Requested

VOC

Dissolved Mn and Fe

Methane, Ethane, Ethene

Sulfate, Alkalinity

TOC

Y/N

Pick Letter

B

D

B

A

C

Matrix Codes

W = Water

DW = Drinking Water

GW = Ground Water

SW = Surface Water

WW = Waste Water

SI = Sludge

WP = Wipe



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CHAIN OF CUSTODY

A=None B-HCl C-H2SO4 D-HNO3 E-DI Water F-Methanol G-NaOH
 H-Sodium Bisulfate Solution I-Sodium Thiosulfate J=Other

UPPER MIDWEST REGION

MN: 612-607-1700 WI: 920-469-2436

COC No. 40199775

Quote #:

Mail To Contact: Kevin Hedinger

Mail To Company: GZA GeoEnvironmental

Mail To Address: 20900 Swenson Drive, Suite 150 Waukesha, WI 53186

Invoice To Contact: Kevin Hedinger

Invoice To Company: GZA GeoEnvironmental

Invoice To Address: 20900 Swenson Drive, Suite 150 Waukesha, WI 53186

Invoice To Phone:

CLIENT COMMENTS

LAB COMMENTS (Lab Use Only)

Profile #

Received By: Mary Farnum 11/20/19 10:07

Received By: Brandon Poffe 11-22-19 0855

Received By: Mary Farnum 11/20/19 10:07

Received By: Brandon Poffe 11-22-19 0855

Received By: Mary Farnum 11/20/19 10:07

Received By: Brandon Poffe 11-22-19 0855

Received By: Mary Farnum 11/20/19 10:07

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Received By: Brandon Poffe 11-22-19 0855

Received By: Mary Farnum 11/20/19 10:07

Received By: Brandon Poffe 11-22-19 0855

Received By: Mary Farnum 11/20/19 10:07

Received By: Brandon Poffe 11-22-19 0855

Received By: Mary Farnum 11/20/19 10:07

Received By: Brandon Poffe 11-22-19 0855

Receipt Temp = 4.5 °C
 Sample Receipt pH OK Adjusted
 Cooler Custody Seal Present (Not Present Intact) NOT Intact

Rush Turnaround Time Requested - Prelims
 (Rush TAT subject to approval/surcharge)
 Date Needed:

Relinquished By: Mary Farnum 11/20/19 10:07
 Relinquished By: Brandon Poffe 11/22/19 0855

Received By: Mary Farnum 11/20/19 10:07
 Received By: Brandon Poffe 11-22-19 0855

Samples on HOLD are subject to special pricing and release of liability

Sample Preservation Receipt Form

Client Name: GZF Geo Environmental Project # 401997MS

All containers needing preservation have been checked and noted below. Yes No N/A
 Lab Lot# of pH paper: 1053581 Lab Sid #ID of preservation (if pH adjusted):

Initial when completed: RL Date/Time: 11-22-10


Pace Analytical Services, LLC
 1241 Bellevue Street, Suite 9
 Green Bay, WI 54302
 Page 60 of 61

Pace Lab #	Glass			Plastic			Vials			Jars		General		VOA Vials (>6mm) *				Volume (mL)																		
	AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3B	BP3N	BP3S	DG9A	DG9T	VG9U		VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≥2	pH after adjusted				
001																																				2.5/5/10
002																																				2.5/5/10
003																																				2.5/5/10
004																																				2.5/5/10
005																																				2.5/5/10
006																																				2.5/5/10
007																																				2.5/5/10
008																																				2.5/5/10
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015																																				2.5/5/10
016																																				2.5/5/10
017																																				2.5/5/10
018																																				2.5/5/10
019																																				2.5/5/10
020																																				2.5/5/10

Exceptions to preservation check: VOA, Coliform, TOC, TOX, TOH, O&G, WI, DRQ, Phenolics, Other: _____

Headspace in VOA Vials (<6mm) :		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> *If yes look in headspace column	
AG1U	1 liter amber glass	BP1U	1 liter plastic unpres
AG1H	1 liter amber glass HCL	BP2N	500 mL plastic HNO3
AG4S	125 mL amber glass H2SO4	BP2Z	500 mL plastic NaOH, Znact
AG4U	120 mL amber glass unpres	BP3U	250 mL plastic unpres
AG5U	100 mL amber glass unpres	BP3B	250 mL plastic NaOH
AG2S	500 mL amber glass H2SO4	BP3N	250 mL plastic HNO3
BG3U	250 mL clear glass unpres	BP3S	250 mL plastic H2SO4
DG9A	40 mL amber ascorbic	JGFU	40 mL clear jar unpres
DG9T	40 mL amber Na Thio	WGFU	40 mL clear jar unpres
VG9U	40 mL clear vial unpres	WPFU	40 mL plastic jar unpres
VG9H	40 mL clear vial HCL	SP5T	120 mL plastic Na Thiosulfate
VG9M	40 mL clear vial MeOH	ZPLC	ziploc bag
VG9D	40 mL clear vial DI	GN:	

3855

 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 25Apr2018
	Document No.: F-GB-C-031-Rev.07	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: GZA GeoEnvironmental
Courier: CS Logistics Fed Ex Speedee UPS Waltco
 Client Pace Other: _____

Project # _____

WO#: 40199775



Tracking #: _____
Custody Seal on Cooler/Box Present: yes no **Seals intact:** yes no
Custody Seal on Samples Present: yes no **Seals intact:** yes no
Packing Material: Bubble Wrap Bubble Bags None Other
Thermometer Used SR-91 **Type of Ice:** Wet Blue Dry None Samples on ice, cooling process has begun
Cooler Temperature Uncorr: 4.0 ICorr: 4.5
Temp Blank Present: yes no **Biological Tissue is Frozen:** yes no

Person examining contents:
 Date: 11-22-19
 Initials: BA

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time: _____
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	10. <u>Crack on lid sample 003 125 1/1/19</u>
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11. <u>BA</u>
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <input checked="" type="checkbox"/>		
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>433</u>		

Client Notification/ Resolution: _____ If checked, see attached form for additional comments
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

Project Manager Review: [Signature] **Date:** 11/25/19

December 05, 2019

Kevin Hedinger
GZA
20900 Swenson Drive
Suite 150
Waukesha, WI 53186

RE: Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199817

Dear Kevin Hedinger:

Enclosed are the analytical results for sample(s) received by the laboratory on November 23, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199817

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199817

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40199817001	MW-07R	Water	11/21/19 09:05	11/23/19 08:15
40199817002	MW-37R	Water	11/21/19 10:37	11/23/19 08:15
40199817003	MW-17R	Water	11/21/19 10:33	11/23/19 08:15
40199817004	MW-11	Water	11/21/19 11:19	11/23/19 08:15
40199817005	MW-19	Water	11/21/19 09:15	11/23/19 08:15
40199817006	MW-39	Water	11/21/19 09:58	11/23/19 08:15
40199817007	MW-15	Water	11/21/19 08:30	11/23/19 08:15
40199817008	MW-18R	Water	11/21/19 09:58	11/23/19 08:15
40199817009	MW-20	Water	11/21/19 08:36	11/23/19 08:15
40199817010	DUP-1	Water	11/21/19 00:00	11/23/19 08:15
40199817011	TRIP	Water	11/21/19 00:00	11/23/19 08:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199817

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40199817001	MW-07R	EPA 8015B Modified	ALD	3	PASI-G
		EPA 6010	TXW	2	PASI-G
		EPA 8260	LAP	64	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40199817002	MW-37R	EPA 8015B Modified	ALD	3	PASI-G
		EPA 6010	TXW	2	PASI-G
		EPA 8260	LAP	64	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40199817003	MW-17R	EPA 8015B Modified	ALD	3	PASI-G
		EPA 6010	TXW	2	PASI-G
		EPA 8260	LAP	64	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40199817004	MW-11	EPA 8260	LAP	64	PASI-G
40199817005	MW-19	EPA 8260	LAP	64	PASI-G
40199817006	MW-39	EPA 8015B Modified	ALD	3	PASI-G
		EPA 6010	TXW	2	PASI-G
		EPA 8260	LAP	64	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40199817007	MW-15	EPA 8260	LAP	64	PASI-G
40199817008	MW-18R	EPA 8015B Modified	ALD	3	PASI-G
		EPA 6010	TXW	2	PASI-G
		EPA 8260	LAP	64	PASI-G
		EPA 300.0	HMB	1	PASI-G
		EPA 310.2	DAW	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40199817009	MW-20	EPA 8260	LAP	64	PASI-G
40199817010	DUP-1	EPA 8260	LAP	64	PASI-G
40199817011	TRIP	EPA 8260	LAP	64	PASI-G

REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

SUMMARY OF DETECTION

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199817

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40199817001	MW-07R					
EPA 8015B Modified	Ethane	18.5	ug/L	5.6	11/26/19 11:38	
EPA 8015B Modified	Methane	479	ug/L	14.0	11/26/19 12:47	
EPA 6010	Iron, Dissolved	13400	ug/L	100	11/26/19 21:14	
EPA 6010	Manganese, Dissolved	610	ug/L	5.0	11/26/19 21:14	
EPA 8260	1,1-Dichloroethane	1.5	ug/L	1.0	11/26/19 08:34	
EPA 8260	Vinyl chloride	6.7	ug/L	1.0	11/26/19 08:34	
EPA 8260	cis-1,2-Dichloroethene	7.0	ug/L	1.0	11/26/19 08:34	
EPA 300.0	Sulfate	70.0	mg/L	10.0	12/04/19 16:07	
EPA 310.2	Alkalinity, Total as CaCO3	667	mg/L	47.0	12/03/19 12:34	
SM 5310C	Total Organic Carbon	7.4	mg/L	3.0	12/04/19 04:12	
40199817002	MW-37R					
EPA 8260	Tetrachloroethene	0.39J	ug/L	1.1	11/26/19 12:58	
EPA 8260	Trichloroethene	1.8	ug/L	1.0	11/26/19 12:58	
EPA 300.0	Sulfate	27.7	mg/L	2.0	12/04/19 17:17	
EPA 310.2	Alkalinity, Total as CaCO3	205	mg/L	23.5	12/03/19 12:34	
SM 5310C	Total Organic Carbon	1.5	mg/L	0.50	12/04/19 04:54	
40199817003	MW-17R					
EPA 8015B Modified	Ethane	3.5J	ug/L	5.0	11/26/19 11:51	
EPA 8015B Modified	Methane	216	ug/L	2.8	11/26/19 11:51	
EPA 8260	Trichloroethene	449	ug/L	10.0	11/26/19 08:56	
EPA 8260	Vinyl chloride	14.0	ug/L	10.0	11/26/19 08:56	
EPA 8260	cis-1,2-Dichloroethene	222	ug/L	10.0	11/26/19 08:56	
EPA 8260	trans-1,2-Dichloroethene	18.3J	ug/L	36.4	11/26/19 08:56	
EPA 300.0	Sulfate	161	mg/L	20.0	12/04/19 17:30	
EPA 310.2	Alkalinity, Total as CaCO3	138	mg/L	23.5	12/03/19 12:35	
SM 5310C	Total Organic Carbon	14.4	mg/L	5.0	12/04/19 05:15	
40199817005	MW-19					
EPA 8260	1,1-Dichloroethane	0.44J	ug/L	1.0	11/26/19 16:01	
EPA 8260	Vinyl chloride	5.1	ug/L	1.0	11/26/19 16:01	
EPA 8260	cis-1,2-Dichloroethene	0.86J	ug/L	1.0	11/26/19 16:01	
40199817006	MW-39					
EPA 8015B Modified	Methane	14.5	ug/L	2.8	11/26/19 11:58	
EPA 6010	Manganese, Dissolved	62.3	ug/L	5.0	11/26/19 21:26	
EPA 8260	1,1,1-Trichloroethane	55.6	ug/L	10.0	11/26/19 09:18	
EPA 8260	1,1-Dichloroethane	17.6	ug/L	10.0	11/26/19 09:18	
EPA 8260	1,1-Dichloroethene	16.0	ug/L	10.0	11/26/19 09:18	
EPA 8260	Trichloroethene	466	ug/L	10.0	11/26/19 09:18	
EPA 8260	cis-1,2-Dichloroethene	244	ug/L	10.0	11/26/19 09:18	
EPA 8260	trans-1,2-Dichloroethene	40.2	ug/L	36.4	11/26/19 09:18	
EPA 300.0	Sulfate	45.4	mg/L	2.0	12/04/19 17:43	
EPA 310.2	Alkalinity, Total as CaCO3	270	mg/L	47.0	12/03/19 12:35	
SM 5310C	Total Organic Carbon	2.1	mg/L	1.0	12/04/19 05:36	
40199817007	MW-15					
EPA 8260	1,1,1-Trichloroethane	29.6	ug/L	1.0	11/26/19 16:23	

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SUMMARY OF DETECTION

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199817

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40199817007	MW-15					
EPA 8260	1,1-Dichloroethane	17.4	ug/L	1.0	11/26/19 16:23	
EPA 8260	Trichloroethene	1.9	ug/L	1.0	11/26/19 16:23	
EPA 8260	cis-1,2-Dichloroethene	1.6	ug/L	1.0	11/26/19 16:23	
40199817008	MW-18R					
EPA 8015B Modified	Methane	263	ug/L	2.8	11/26/19 12:05	
EPA 6010	Manganese, Dissolved	742	ug/L	5.0	11/26/19 21:29	
EPA 8260	Trichloroethene	912	ug/L	20.0	11/26/19 09:40	
EPA 8260	Vinyl chloride	38.4	ug/L	20.0	11/26/19 09:40	
EPA 8260	cis-1,2-Dichloroethene	537	ug/L	20.0	11/26/19 09:40	
EPA 300.0	Sulfate	78.4	mg/L	10.0	12/04/19 17:56	
EPA 310.2	Alkalinity, Total as CaCO ₃	299	mg/L	47.0	12/03/19 12:36	
SM 5310C	Total Organic Carbon	1.7	mg/L	0.50	12/04/19 05:57	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199817

Sample: MW-07R **Lab ID: 40199817001** Collected: 11/21/19 09:05 Received: 11/23/19 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV		Analytical Method: EPA 8015B Modified							
Ethane	18.5	ug/L	5.6	1.2	1		11/26/19 11:38	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		11/26/19 11:38	74-85-1	
Methane	479	ug/L	14.0	3.3	5		11/26/19 12:47	74-82-8	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	13400	ug/L	100	29.6	1		11/26/19 21:14	7439-89-6	
Manganese, Dissolved	610	ug/L	5.0	1.1	1		11/26/19 21:14	7439-96-5	
8260 MSV		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/26/19 08:34	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/26/19 08:34	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/26/19 08:34	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/26/19 08:34	79-00-5	
1,1-Dichloroethane	1.5	ug/L	1.0	0.27	1		11/26/19 08:34	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/26/19 08:34	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/26/19 08:34	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/26/19 08:34	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/26/19 08:34	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/26/19 08:34	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/26/19 08:34	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/26/19 08:34	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/26/19 08:34	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/26/19 08:34	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/26/19 08:34	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/26/19 08:34	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/26/19 08:34	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/26/19 08:34	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/26/19 08:34	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/26/19 08:34	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/26/19 08:34	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/26/19 08:34	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/26/19 08:34	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		11/26/19 08:34	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/26/19 08:34	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/26/19 08:34	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/26/19 08:34	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/26/19 08:34	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/26/19 08:34	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/26/19 08:34	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/26/19 08:34	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/26/19 08:34	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/26/19 08:34	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/26/19 08:34	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/26/19 08:34	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/26/19 08:34	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/26/19 08:34	75-71-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199817

Sample: MW-07R **Lab ID: 40199817001** Collected: 11/21/19 09:05 Received: 11/23/19 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/26/19 08:34	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/26/19 08:34	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/26/19 08:34	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/26/19 08:34	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/26/19 08:34	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/26/19 08:34	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/26/19 08:34	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		11/26/19 08:34	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/26/19 08:34	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/26/19 08:34	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		11/26/19 08:34	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/26/19 08:34	75-69-4	
Vinyl chloride	6.7	ug/L	1.0	0.17	1		11/26/19 08:34	75-01-4	
cis-1,2-Dichloroethene	7.0	ug/L	1.0	0.27	1		11/26/19 08:34	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/26/19 08:34	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/26/19 08:34	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/26/19 08:34	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/26/19 08:34	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/26/19 08:34	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/26/19 08:34	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/26/19 08:34	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/26/19 08:34	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		11/26/19 08:34	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/26/19 08:34	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	83	%	70-130		1		11/26/19 08:34	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		11/26/19 08:34	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		11/26/19 08:34	2037-26-5	
300.0 IC Anions Analytical Method: EPA 300.0									
Sulfate	70.0	mg/L	10.0	2.2	5		12/04/19 16:07	14808-79-8	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	667	mg/L	47.0	14.1	2		12/03/19 12:34		
5310C TOC Analytical Method: SM 5310C									
Total Organic Carbon	7.4	mg/L	3.0	0.89	6		12/04/19 04:12	7440-44-0	

Sample: MW-37R **Lab ID: 40199817002** Collected: 11/21/19 10:37 Received: 11/23/19 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Ethane	<1.2	ug/L	5.6	1.2	1		11/26/19 11:44	74-84-0	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199817

Sample: MW-37R **Lab ID: 40199817002** Collected: 11/21/19 10:37 Received: 11/23/19 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV		Analytical Method: EPA 8015B Modified							
Ethene	<1.2	ug/L	5.0	1.2	1		11/26/19 11:44	74-85-1	
Methane	<0.66	ug/L	2.8	0.66	1		11/26/19 11:44	74-82-8	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	<29.6	ug/L	100	29.6	1		11/26/19 21:17	7439-89-6	
Manganese, Dissolved	<1.1	ug/L	5.0	1.1	1		11/26/19 21:17	7439-96-5	
8260 MSV		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/26/19 12:58	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/26/19 12:58	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/26/19 12:58	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/26/19 12:58	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/26/19 12:58	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/26/19 12:58	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/26/19 12:58	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/26/19 12:58	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/26/19 12:58	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/26/19 12:58	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/26/19 12:58	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/26/19 12:58	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/26/19 12:58	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/26/19 12:58	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/26/19 12:58	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/26/19 12:58	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/26/19 12:58	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/26/19 12:58	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/26/19 12:58	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/26/19 12:58	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/26/19 12:58	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/26/19 12:58	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/26/19 12:58	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		11/26/19 12:58	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/26/19 12:58	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/26/19 12:58	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/26/19 12:58	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/26/19 12:58	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/26/19 12:58	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/26/19 12:58	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/26/19 12:58	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/26/19 12:58	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/26/19 12:58	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/26/19 12:58	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/26/19 12:58	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/26/19 12:58	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/26/19 12:58	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/26/19 12:58	108-20-3	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199817

Sample: MW-37R **Lab ID: 40199817002** Collected: 11/21/19 10:37 Received: 11/23/19 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/26/19 12:58	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/26/19 12:58	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/26/19 12:58	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/26/19 12:58	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/26/19 12:58	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/26/19 12:58	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		11/26/19 12:58	100-42-5	
Tetrachloroethene	0.39J	ug/L	1.1	0.33	1		11/26/19 12:58	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/26/19 12:58	108-88-3	
Trichloroethene	1.8	ug/L	1.0	0.26	1		11/26/19 12:58	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/26/19 12:58	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/26/19 12:58	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		11/26/19 12:58	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/26/19 12:58	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/26/19 12:58	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/26/19 12:58	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/26/19 12:58	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/26/19 12:58	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/26/19 12:58	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/26/19 12:58	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/26/19 12:58	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		11/26/19 12:58	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/26/19 12:58	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130		1		11/26/19 12:58	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		1		11/26/19 12:58	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		11/26/19 12:58	2037-26-5	
300.0 IC Anions Analytical Method: EPA 300.0									
Sulfate	27.7	mg/L	2.0	0.44	1		12/04/19 17:17	14808-79-8	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	205	mg/L	23.5	7.0	1		12/03/19 12:34		
5310C TOC Analytical Method: SM 5310C									
Total Organic Carbon	1.5	mg/L	0.50	0.15	1		12/04/19 04:54	7440-44-0	

Sample: MW-17R **Lab ID: 40199817003** Collected: 11/21/19 10:33 Received: 11/23/19 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Ethane	<1.2	ug/L	5.6	1.2	1		11/26/19 11:51	74-84-0	
Ethene	3.5J	ug/L	5.0	1.2	1		11/26/19 11:51	74-85-1	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199817

Sample: MW-17R **Lab ID: 40199817003** Collected: 11/21/19 10:33 Received: 11/23/19 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV		Analytical Method: EPA 8015B Modified							
Methane	216	ug/L	2.8	0.66	1		11/26/19 11:51	74-82-8	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	<29.6	ug/L	100	29.6	1		11/26/19 21:24	7439-89-6	
Manganese, Dissolved	<1.1	ug/L	5.0	1.1	1		11/26/19 21:24	7439-96-5	
8260 MSV		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<2.7	ug/L	10.0	2.7	10		11/26/19 08:56	630-20-6	
1,1,1-Trichloroethane	<2.4	ug/L	10.0	2.4	10		11/26/19 08:56	71-55-6	
1,1,2,2-Tetrachloroethane	<2.8	ug/L	10.0	2.8	10		11/26/19 08:56	79-34-5	
1,1,2-Trichloroethane	<5.5	ug/L	50.0	5.5	10		11/26/19 08:56	79-00-5	
1,1-Dichloroethane	<2.7	ug/L	10.0	2.7	10		11/26/19 08:56	75-34-3	
1,1-Dichloroethene	<2.4	ug/L	10.0	2.4	10		11/26/19 08:56	75-35-4	
1,1-Dichloropropene	<5.4	ug/L	18.0	5.4	10		11/26/19 08:56	563-58-6	
1,2,3-Trichlorobenzene	<6.3	ug/L	50.0	6.3	10		11/26/19 08:56	87-61-6	
1,2,3-Trichloropropane	<5.9	ug/L	50.0	5.9	10		11/26/19 08:56	96-18-4	
1,2,4-Trichlorobenzene	<9.5	ug/L	50.0	9.5	10		11/26/19 08:56	120-82-1	
1,2,4-Trimethylbenzene	<8.4	ug/L	28.0	8.4	10		11/26/19 08:56	95-63-6	
1,2-Dibromo-3-chloropropane	<17.6	ug/L	58.8	17.6	10		11/26/19 08:56	96-12-8	
1,2-Dibromoethane (EDB)	<8.3	ug/L	27.6	8.3	10		11/26/19 08:56	106-93-4	
1,2-Dichlorobenzene	<7.1	ug/L	23.5	7.1	10		11/26/19 08:56	95-50-1	
1,2-Dichloroethane	<2.8	ug/L	10.0	2.8	10		11/26/19 08:56	107-06-2	
1,2-Dichloropropane	<2.8	ug/L	10.0	2.8	10		11/26/19 08:56	78-87-5	
1,3,5-Trimethylbenzene	<8.7	ug/L	29.1	8.7	10		11/26/19 08:56	108-67-8	
1,3-Dichlorobenzene	<6.3	ug/L	20.9	6.3	10		11/26/19 08:56	541-73-1	
1,3-Dichloropropane	<8.3	ug/L	27.5	8.3	10		11/26/19 08:56	142-28-9	
1,4-Dichlorobenzene	<9.4	ug/L	31.5	9.4	10		11/26/19 08:56	106-46-7	
2,2-Dichloropropane	<22.7	ug/L	75.5	22.7	10		11/26/19 08:56	594-20-7	
2-Chlorotoluene	<9.3	ug/L	50.0	9.3	10		11/26/19 08:56	95-49-8	
4-Chlorotoluene	<7.6	ug/L	25.2	7.6	10		11/26/19 08:56	106-43-4	
Benzene	<2.5	ug/L	10.0	2.5	10		11/26/19 08:56	71-43-2	
Bromobenzene	<2.4	ug/L	10.0	2.4	10		11/26/19 08:56	108-86-1	
Bromochloromethane	<3.6	ug/L	50.0	3.6	10		11/26/19 08:56	74-97-5	
Bromodichloromethane	<3.6	ug/L	12.1	3.6	10		11/26/19 08:56	75-27-4	
Bromoform	<39.7	ug/L	132	39.7	10		11/26/19 08:56	75-25-2	
Bromomethane	<9.7	ug/L	50.0	9.7	10		11/26/19 08:56	74-83-9	
Carbon tetrachloride	<1.7	ug/L	10.0	1.7	10		11/26/19 08:56	56-23-5	
Chlorobenzene	<7.1	ug/L	23.7	7.1	10		11/26/19 08:56	108-90-7	
Chloroethane	<13.4	ug/L	50.0	13.4	10		11/26/19 08:56	75-00-3	
Chloroform	<12.7	ug/L	50.0	12.7	10		11/26/19 08:56	67-66-3	
Chloromethane	<21.9	ug/L	73.0	21.9	10		11/26/19 08:56	74-87-3	
Dibromochloromethane	<26.0	ug/L	86.7	26.0	10		11/26/19 08:56	124-48-1	
Dibromomethane	<9.4	ug/L	31.2	9.4	10		11/26/19 08:56	74-95-3	
Dichlorodifluoromethane	<5.0	ug/L	50.0	5.0	10		11/26/19 08:56	75-71-8	
Diisopropyl ether	<18.9	ug/L	62.9	18.9	10		11/26/19 08:56	108-20-3	
Ethylbenzene	<2.2	ug/L	10.0	2.2	10		11/26/19 08:56	100-41-4	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199817

Sample: MW-17R **Lab ID: 40199817003** Collected: 11/21/19 10:33 Received: 11/23/19 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Hexachloro-1,3-butadiene	<11.8	ug/L	50.0	11.8	10		11/26/19 08:56	87-68-3	
Isopropylbenzene (Cumene)	<3.9	ug/L	50.0	3.9	10		11/26/19 08:56	98-82-8	
Methyl-tert-butyl ether	<12.5	ug/L	41.5	12.5	10		11/26/19 08:56	1634-04-4	
Methylene Chloride	<5.8	ug/L	50.0	5.8	10		11/26/19 08:56	75-09-2	
Naphthalene	<11.8	ug/L	50.0	11.8	10		11/26/19 08:56	91-20-3	
Styrene	<4.7	ug/L	15.5	4.7	10		11/26/19 08:56	100-42-5	
Tetrachloroethene	<3.3	ug/L	10.9	3.3	10		11/26/19 08:56	127-18-4	
Toluene	<1.7	ug/L	50.0	1.7	10		11/26/19 08:56	108-88-3	
Trichloroethene	449	ug/L	10.0	2.6	10		11/26/19 08:56	79-01-6	
Trichlorofluoromethane	<2.1	ug/L	10.0	2.1	10		11/26/19 08:56	75-69-4	
Vinyl chloride	14.0	ug/L	10.0	1.7	10		11/26/19 08:56	75-01-4	
cis-1,2-Dichloroethene	222	ug/L	10.0	2.7	10		11/26/19 08:56	156-59-2	
cis-1,3-Dichloropropene	<36.3	ug/L	121	36.3	10		11/26/19 08:56	10061-01-5	
m&p-Xylene	<4.7	ug/L	20.0	4.7	10		11/26/19 08:56	179601-23-1	
n-Butylbenzene	<7.1	ug/L	23.6	7.1	10		11/26/19 08:56	104-51-8	
n-Propylbenzene	<8.1	ug/L	50.0	8.1	10		11/26/19 08:56	103-65-1	
o-Xylene	<2.6	ug/L	10.0	2.6	10		11/26/19 08:56	95-47-6	
p-Isopropyltoluene	<8.0	ug/L	26.7	8.0	10		11/26/19 08:56	99-87-6	
sec-Butylbenzene	<8.5	ug/L	50.0	8.5	10		11/26/19 08:56	135-98-8	
tert-Butylbenzene	<3.0	ug/L	10.1	3.0	10		11/26/19 08:56	98-06-6	
trans-1,2-Dichloroethene	18.3J	ug/L	36.4	10.9	10		11/26/19 08:56	156-60-5	
trans-1,3-Dichloropropene	<43.7	ug/L	146	43.7	10		11/26/19 08:56	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	84	%	70-130		10		11/26/19 08:56	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		10		11/26/19 08:56	1868-53-7	
Toluene-d8 (S)	94	%	70-130		10		11/26/19 08:56	2037-26-5	
300.0 IC Anions Analytical Method: EPA 300.0									
Sulfate	161	mg/L	20.0	4.4	10		12/04/19 17:30	14808-79-8	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	138	mg/L	23.5	7.0	1		12/03/19 12:35		
5310C TOC Analytical Method: SM 5310C									
Total Organic Carbon	14.4	mg/L	5.0	1.5	10		12/04/19 05:15	7440-44-0	

Sample: MW-11 **Lab ID: 40199817004** Collected: 11/21/19 11:19 Received: 11/23/19 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/26/19 15:40	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/26/19 15:40	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/26/19 15:40	79-34-5	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199817

Sample: MW-11 **Lab ID: 40199817004** Collected: 11/21/19 11:19 Received: 11/23/19 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/26/19 15:40	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/26/19 15:40	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/26/19 15:40	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/26/19 15:40	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/26/19 15:40	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/26/19 15:40	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/26/19 15:40	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/26/19 15:40	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/26/19 15:40	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/26/19 15:40	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/26/19 15:40	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/26/19 15:40	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/26/19 15:40	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/26/19 15:40	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/26/19 15:40	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/26/19 15:40	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/26/19 15:40	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/26/19 15:40	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/26/19 15:40	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/26/19 15:40	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		11/26/19 15:40	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/26/19 15:40	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/26/19 15:40	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/26/19 15:40	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/26/19 15:40	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/26/19 15:40	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/26/19 15:40	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/26/19 15:40	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/26/19 15:40	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/26/19 15:40	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/26/19 15:40	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/26/19 15:40	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/26/19 15:40	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/26/19 15:40	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/26/19 15:40	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/26/19 15:40	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/26/19 15:40	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/26/19 15:40	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/26/19 15:40	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/26/19 15:40	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/26/19 15:40	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		11/26/19 15:40	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/26/19 15:40	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/26/19 15:40	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		11/26/19 15:40	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/26/19 15:40	75-69-4	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199817

Sample: MW-11 **Lab ID: 40199817004** Collected: 11/21/19 11:19 Received: 11/23/19 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/26/19 15:40	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		11/26/19 15:40	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/26/19 15:40	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/26/19 15:40	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/26/19 15:40	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/26/19 15:40	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/26/19 15:40	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/26/19 15:40	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/26/19 15:40	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/26/19 15:40	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		11/26/19 15:40	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/26/19 15:40	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	84	%	70-130		1		11/26/19 15:40	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		11/26/19 15:40	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		11/26/19 15:40	2037-26-5	

Sample: MW-19 **Lab ID: 40199817005** Collected: 11/21/19 09:15 Received: 11/23/19 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/26/19 16:01	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/26/19 16:01	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/26/19 16:01	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/26/19 16:01	79-00-5	
1,1-Dichloroethane	0.44J	ug/L	1.0	0.27	1		11/26/19 16:01	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/26/19 16:01	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/26/19 16:01	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/26/19 16:01	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/26/19 16:01	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/26/19 16:01	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/26/19 16:01	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/26/19 16:01	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/26/19 16:01	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/26/19 16:01	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/26/19 16:01	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/26/19 16:01	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/26/19 16:01	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/26/19 16:01	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/26/19 16:01	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/26/19 16:01	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/26/19 16:01	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/26/19 16:01	95-49-8	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199817

Sample: MW-19 **Lab ID: 40199817005** Collected: 11/21/19 09:15 Received: 11/23/19 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/26/19 16:01	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		11/26/19 16:01	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/26/19 16:01	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/26/19 16:01	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/26/19 16:01	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/26/19 16:01	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/26/19 16:01	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/26/19 16:01	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/26/19 16:01	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/26/19 16:01	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/26/19 16:01	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/26/19 16:01	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/26/19 16:01	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/26/19 16:01	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/26/19 16:01	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/26/19 16:01	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/26/19 16:01	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/26/19 16:01	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/26/19 16:01	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/26/19 16:01	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/26/19 16:01	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/26/19 16:01	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		11/26/19 16:01	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/26/19 16:01	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/26/19 16:01	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		11/26/19 16:01	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/26/19 16:01	75-69-4	
Vinyl chloride	5.1	ug/L	1.0	0.17	1		11/26/19 16:01	75-01-4	
cis-1,2-Dichloroethene	0.86J	ug/L	1.0	0.27	1		11/26/19 16:01	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/26/19 16:01	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/26/19 16:01	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/26/19 16:01	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/26/19 16:01	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/26/19 16:01	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/26/19 16:01	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/26/19 16:01	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/26/19 16:01	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		11/26/19 16:01	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/26/19 16:01	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	83	%	70-130		1		11/26/19 16:01	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		11/26/19 16:01	1868-53-7	
Toluene-d8 (S)	92	%	70-130		1		11/26/19 16:01	2037-26-5	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199817

Sample: MW-39 **Lab ID: 40199817006** Collected: 11/21/19 09:58 Received: 11/23/19 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV		Analytical Method: EPA 8015B Modified							
Ethane	<1.2	ug/L	5.6	1.2	1		11/26/19 11:58	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		11/26/19 11:58	74-85-1	
Methane	14.5	ug/L	2.8	0.66	1		11/26/19 11:58	74-82-8	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	<29.6	ug/L	100	29.6	1		11/26/19 21:26	7439-89-6	
Manganese, Dissolved	62.3	ug/L	5.0	1.1	1		11/26/19 21:26	7439-96-5	
8260 MSV		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<2.7	ug/L	10.0	2.7	10		11/26/19 09:18	630-20-6	
1,1,1-Trichloroethane	55.6	ug/L	10.0	2.4	10		11/26/19 09:18	71-55-6	
1,1,2,2-Tetrachloroethane	<2.8	ug/L	10.0	2.8	10		11/26/19 09:18	79-34-5	
1,1,2-Trichloroethane	<5.5	ug/L	50.0	5.5	10		11/26/19 09:18	79-00-5	
1,1-Dichloroethane	17.6	ug/L	10.0	2.7	10		11/26/19 09:18	75-34-3	
1,1-Dichloroethene	16.0	ug/L	10.0	2.4	10		11/26/19 09:18	75-35-4	
1,1-Dichloropropene	<5.4	ug/L	18.0	5.4	10		11/26/19 09:18	563-58-6	
1,2,3-Trichlorobenzene	<6.3	ug/L	50.0	6.3	10		11/26/19 09:18	87-61-6	
1,2,3-Trichloropropane	<5.9	ug/L	50.0	5.9	10		11/26/19 09:18	96-18-4	
1,2,4-Trichlorobenzene	<9.5	ug/L	50.0	9.5	10		11/26/19 09:18	120-82-1	
1,2,4-Trimethylbenzene	<8.4	ug/L	28.0	8.4	10		11/26/19 09:18	95-63-6	
1,2-Dibromo-3-chloropropane	<17.6	ug/L	58.8	17.6	10		11/26/19 09:18	96-12-8	
1,2-Dibromoethane (EDB)	<8.3	ug/L	27.6	8.3	10		11/26/19 09:18	106-93-4	
1,2-Dichlorobenzene	<7.1	ug/L	23.5	7.1	10		11/26/19 09:18	95-50-1	
1,2-Dichloroethane	<2.8	ug/L	10.0	2.8	10		11/26/19 09:18	107-06-2	
1,2-Dichloropropane	<2.8	ug/L	10.0	2.8	10		11/26/19 09:18	78-87-5	
1,3,5-Trimethylbenzene	<8.7	ug/L	29.1	8.7	10		11/26/19 09:18	108-67-8	
1,3-Dichlorobenzene	<6.3	ug/L	20.9	6.3	10		11/26/19 09:18	541-73-1	
1,3-Dichloropropane	<8.3	ug/L	27.5	8.3	10		11/26/19 09:18	142-28-9	
1,4-Dichlorobenzene	<9.4	ug/L	31.5	9.4	10		11/26/19 09:18	106-46-7	
2,2-Dichloropropane	<22.7	ug/L	75.5	22.7	10		11/26/19 09:18	594-20-7	
2-Chlorotoluene	<9.3	ug/L	50.0	9.3	10		11/26/19 09:18	95-49-8	
4-Chlorotoluene	<7.6	ug/L	25.2	7.6	10		11/26/19 09:18	106-43-4	
Benzene	<2.5	ug/L	10.0	2.5	10		11/26/19 09:18	71-43-2	
Bromobenzene	<2.4	ug/L	10.0	2.4	10		11/26/19 09:18	108-86-1	
Bromochloromethane	<3.6	ug/L	50.0	3.6	10		11/26/19 09:18	74-97-5	
Bromodichloromethane	<3.6	ug/L	12.1	3.6	10		11/26/19 09:18	75-27-4	
Bromoform	<39.7	ug/L	132	39.7	10		11/26/19 09:18	75-25-2	
Bromomethane	<9.7	ug/L	50.0	9.7	10		11/26/19 09:18	74-83-9	
Carbon tetrachloride	<1.7	ug/L	10.0	1.7	10		11/26/19 09:18	56-23-5	
Chlorobenzene	<7.1	ug/L	23.7	7.1	10		11/26/19 09:18	108-90-7	
Chloroethane	<13.4	ug/L	50.0	13.4	10		11/26/19 09:18	75-00-3	
Chloroform	<12.7	ug/L	50.0	12.7	10		11/26/19 09:18	67-66-3	
Chloromethane	<21.9	ug/L	73.0	21.9	10		11/26/19 09:18	74-87-3	
Dibromochloromethane	<26.0	ug/L	86.7	26.0	10		11/26/19 09:18	124-48-1	
Dibromomethane	<9.4	ug/L	31.2	9.4	10		11/26/19 09:18	74-95-3	
Dichlorodifluoromethane	<5.0	ug/L	50.0	5.0	10		11/26/19 09:18	75-71-8	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199817

Sample: MW-39 Lab ID: 40199817006 Collected: 11/21/19 09:58 Received: 11/23/19 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Diisopropyl ether	<18.9	ug/L	62.9	18.9	10		11/26/19 09:18	108-20-3	
Ethylbenzene	<2.2	ug/L	10.0	2.2	10		11/26/19 09:18	100-41-4	
Hexachloro-1,3-butadiene	<11.8	ug/L	50.0	11.8	10		11/26/19 09:18	87-68-3	
Isopropylbenzene (Cumene)	<3.9	ug/L	50.0	3.9	10		11/26/19 09:18	98-82-8	
Methyl-tert-butyl ether	<12.5	ug/L	41.5	12.5	10		11/26/19 09:18	1634-04-4	
Methylene Chloride	<5.8	ug/L	50.0	5.8	10		11/26/19 09:18	75-09-2	
Naphthalene	<11.8	ug/L	50.0	11.8	10		11/26/19 09:18	91-20-3	
Styrene	<4.7	ug/L	15.5	4.7	10		11/26/19 09:18	100-42-5	
Tetrachloroethene	<3.3	ug/L	10.9	3.3	10		11/26/19 09:18	127-18-4	
Toluene	<1.7	ug/L	50.0	1.7	10		11/26/19 09:18	108-88-3	
Trichloroethene	466	ug/L	10.0	2.6	10		11/26/19 09:18	79-01-6	
Trichlorofluoromethane	<2.1	ug/L	10.0	2.1	10		11/26/19 09:18	75-69-4	
Vinyl chloride	<1.7	ug/L	10.0	1.7	10		11/26/19 09:18	75-01-4	
cis-1,2-Dichloroethene	244	ug/L	10.0	2.7	10		11/26/19 09:18	156-59-2	
cis-1,3-Dichloropropene	<36.3	ug/L	121	36.3	10		11/26/19 09:18	10061-01-5	
m&p-Xylene	<4.7	ug/L	20.0	4.7	10		11/26/19 09:18	179601-23-1	
n-Butylbenzene	<7.1	ug/L	23.6	7.1	10		11/26/19 09:18	104-51-8	
n-Propylbenzene	<8.1	ug/L	50.0	8.1	10		11/26/19 09:18	103-65-1	
o-Xylene	<2.6	ug/L	10.0	2.6	10		11/26/19 09:18	95-47-6	
p-Isopropyltoluene	<8.0	ug/L	26.7	8.0	10		11/26/19 09:18	99-87-6	
sec-Butylbenzene	<8.5	ug/L	50.0	8.5	10		11/26/19 09:18	135-98-8	
tert-Butylbenzene	<3.0	ug/L	10.1	3.0	10		11/26/19 09:18	98-06-6	
trans-1,2-Dichloroethene	40.2	ug/L	36.4	10.9	10		11/26/19 09:18	156-60-5	
trans-1,3-Dichloropropene	<43.7	ug/L	146	43.7	10		11/26/19 09:18	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	83	%	70-130		10		11/26/19 09:18	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		10		11/26/19 09:18	1868-53-7	
Toluene-d8 (S)	94	%	70-130		10		11/26/19 09:18	2037-26-5	

300.0 IC Anions Analytical Method: EPA 300.0									
Sulfate	45.4	mg/L	2.0	0.44	1		12/04/19 17:43	14808-79-8	

310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	270	mg/L	47.0	14.1	2		12/03/19 12:35		

5310C TOC Analytical Method: SM 5310C									
Total Organic Carbon	2.1	mg/L	1.0	0.30	2		12/04/19 05:36	7440-44-0	

Sample: MW-15 Lab ID: 40199817007 Collected: 11/21/19 08:30 Received: 11/23/19 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/26/19 16:23	630-20-6	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199817

Sample: MW-15 **Lab ID: 40199817007** Collected: 11/21/19 08:30 Received: 11/23/19 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	29.6	ug/L	1.0	0.24	1		11/26/19 16:23	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/26/19 16:23	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/26/19 16:23	79-00-5	
1,1-Dichloroethane	17.4	ug/L	1.0	0.27	1		11/26/19 16:23	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/26/19 16:23	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/26/19 16:23	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/26/19 16:23	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/26/19 16:23	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/26/19 16:23	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/26/19 16:23	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/26/19 16:23	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/26/19 16:23	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/26/19 16:23	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/26/19 16:23	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/26/19 16:23	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/26/19 16:23	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/26/19 16:23	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/26/19 16:23	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/26/19 16:23	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/26/19 16:23	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/26/19 16:23	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/26/19 16:23	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		11/26/19 16:23	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/26/19 16:23	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/26/19 16:23	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/26/19 16:23	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/26/19 16:23	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/26/19 16:23	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/26/19 16:23	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/26/19 16:23	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/26/19 16:23	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/26/19 16:23	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/26/19 16:23	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/26/19 16:23	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/26/19 16:23	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/26/19 16:23	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/26/19 16:23	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/26/19 16:23	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/26/19 16:23	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/26/19 16:23	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/26/19 16:23	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/26/19 16:23	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/26/19 16:23	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		11/26/19 16:23	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/26/19 16:23	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/26/19 16:23	108-88-3	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199817

Sample: MW-15 **Lab ID: 40199817007** Collected: 11/21/19 08:30 Received: 11/23/19 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Trichloroethene	1.9	ug/L	1.0	0.26	1		11/26/19 16:23	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/26/19 16:23	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/26/19 16:23	75-01-4	
cis-1,2-Dichloroethene	1.6	ug/L	1.0	0.27	1		11/26/19 16:23	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/26/19 16:23	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/26/19 16:23	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/26/19 16:23	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/26/19 16:23	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/26/19 16:23	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/26/19 16:23	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/26/19 16:23	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/26/19 16:23	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		11/26/19 16:23	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/26/19 16:23	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	84	%	70-130		1		11/26/19 16:23	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		1		11/26/19 16:23	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		11/26/19 16:23	2037-26-5	

Sample: MW-18R **Lab ID: 40199817008** Collected: 11/21/19 09:58 Received: 11/23/19 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Ethane	<1.2	ug/L	5.6	1.2	1		11/26/19 12:05	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		11/26/19 12:05	74-85-1	
Methane	263	ug/L	2.8	0.66	1		11/26/19 12:05	74-82-8	
6010 MET ICP, Dissolved Analytical Method: EPA 6010									
Iron, Dissolved	<29.6	ug/L	100	29.6	1		11/26/19 21:29	7439-89-6	
Manganese, Dissolved	742	ug/L	5.0	1.1	1		11/26/19 21:29	7439-96-5	
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<5.4	ug/L	20.0	5.4	20		11/26/19 09:40	630-20-6	
1,1,1-Trichloroethane	<4.9	ug/L	20.0	4.9	20		11/26/19 09:40	71-55-6	
1,1,2,2-Tetrachloroethane	<5.5	ug/L	20.0	5.5	20		11/26/19 09:40	79-34-5	
1,1,2-Trichloroethane	<11.0	ug/L	100	11.0	20		11/26/19 09:40	79-00-5	
1,1-Dichloroethane	<5.5	ug/L	20.0	5.5	20		11/26/19 09:40	75-34-3	
1,1-Dichloroethene	<4.9	ug/L	20.0	4.9	20		11/26/19 09:40	75-35-4	
1,1-Dichloropropene	<10.8	ug/L	36.0	10.8	20		11/26/19 09:40	563-58-6	
1,2,3-Trichlorobenzene	<12.5	ug/L	100	12.5	20		11/26/19 09:40	87-61-6	
1,2,3-Trichloropropane	<11.8	ug/L	100	11.8	20		11/26/19 09:40	96-18-4	
1,2,4-Trichlorobenzene	<19.0	ug/L	100	19.0	20		11/26/19 09:40	120-82-1	
1,2,4-Trimethylbenzene	<16.8	ug/L	56.0	16.8	20		11/26/19 09:40	95-63-6	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199817

Sample: MW-18R **Lab ID: 40199817008** Collected: 11/21/19 09:58 Received: 11/23/19 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,2-Dibromo-3-chloropropane	<35.3	ug/L	118	35.3	20		11/26/19 09:40	96-12-8	
1,2-Dibromoethane (EDB)	<16.6	ug/L	55.3	16.6	20		11/26/19 09:40	106-93-4	
1,2-Dichlorobenzene	<14.1	ug/L	47.0	14.1	20		11/26/19 09:40	95-50-1	
1,2-Dichloroethane	<5.6	ug/L	20.0	5.6	20		11/26/19 09:40	107-06-2	
1,2-Dichloropropane	<5.7	ug/L	20.0	5.7	20		11/26/19 09:40	78-87-5	
1,3,5-Trimethylbenzene	<17.5	ug/L	58.2	17.5	20		11/26/19 09:40	108-67-8	
1,3-Dichlorobenzene	<12.6	ug/L	41.9	12.6	20		11/26/19 09:40	541-73-1	
1,3-Dichloropropane	<16.5	ug/L	55.1	16.5	20		11/26/19 09:40	142-28-9	
1,4-Dichlorobenzene	<18.9	ug/L	62.9	18.9	20		11/26/19 09:40	106-46-7	
2,2-Dichloropropane	<45.3	ug/L	151	45.3	20		11/26/19 09:40	594-20-7	
2-Chlorotoluene	<18.5	ug/L	100	18.5	20		11/26/19 09:40	95-49-8	
4-Chlorotoluene	<15.1	ug/L	50.4	15.1	20		11/26/19 09:40	106-43-4	
Benzene	<4.9	ug/L	20.0	4.9	20		11/26/19 09:40	71-43-2	
Bromobenzene	<4.8	ug/L	20.0	4.8	20		11/26/19 09:40	108-86-1	
Bromochloromethane	<7.2	ug/L	100	7.2	20		11/26/19 09:40	74-97-5	
Bromodichloromethane	<7.3	ug/L	24.2	7.3	20		11/26/19 09:40	75-27-4	
Bromoform	<79.4	ug/L	265	79.4	20		11/26/19 09:40	75-25-2	
Bromomethane	<19.4	ug/L	100	19.4	20		11/26/19 09:40	74-83-9	
Carbon tetrachloride	<3.3	ug/L	20.0	3.3	20		11/26/19 09:40	56-23-5	
Chlorobenzene	<14.2	ug/L	47.4	14.2	20		11/26/19 09:40	108-90-7	
Chloroethane	<26.8	ug/L	100	26.8	20		11/26/19 09:40	75-00-3	
Chloroform	<25.5	ug/L	100	25.5	20		11/26/19 09:40	67-66-3	
Chloromethane	<43.8	ug/L	146	43.8	20		11/26/19 09:40	74-87-3	
Dibromochloromethane	<52.0	ug/L	173	52.0	20		11/26/19 09:40	124-48-1	
Dibromomethane	<18.7	ug/L	62.5	18.7	20		11/26/19 09:40	74-95-3	
Dichlorodifluoromethane	<10	ug/L	100	10	20		11/26/19 09:40	75-71-8	
Diisopropyl ether	<37.8	ug/L	126	37.8	20		11/26/19 09:40	108-20-3	
Ethylbenzene	<4.4	ug/L	20.0	4.4	20		11/26/19 09:40	100-41-4	
Hexachloro-1,3-butadiene	<23.6	ug/L	100	23.6	20		11/26/19 09:40	87-68-3	
Isopropylbenzene (Cumene)	<7.9	ug/L	100	7.9	20		11/26/19 09:40	98-82-8	
Methyl-tert-butyl ether	<24.9	ug/L	83.1	24.9	20		11/26/19 09:40	1634-04-4	
Methylene Chloride	<11.6	ug/L	100	11.6	20		11/26/19 09:40	75-09-2	
Naphthalene	<23.5	ug/L	100	23.5	20		11/26/19 09:40	91-20-3	
Styrene	<9.3	ug/L	31.0	9.3	20		11/26/19 09:40	100-42-5	
Tetrachloroethene	<6.5	ug/L	21.8	6.5	20		11/26/19 09:40	127-18-4	
Toluene	<3.4	ug/L	100	3.4	20		11/26/19 09:40	108-88-3	
Trichloroethene	912	ug/L	20.0	5.1	20		11/26/19 09:40	79-01-6	
Trichlorofluoromethane	<4.3	ug/L	20.0	4.3	20		11/26/19 09:40	75-69-4	
Vinyl chloride	38.4	ug/L	20.0	3.5	20		11/26/19 09:40	75-01-4	
cis-1,2-Dichloroethene	537	ug/L	20.0	5.4	20		11/26/19 09:40	156-59-2	
cis-1,3-Dichloropropene	<72.6	ug/L	242	72.6	20		11/26/19 09:40	10061-01-5	
m&p-Xylene	<9.3	ug/L	40.0	9.3	20		11/26/19 09:40	179601-23-1	
n-Butylbenzene	<14.2	ug/L	47.2	14.2	20		11/26/19 09:40	104-51-8	
n-Propylbenzene	<16.2	ug/L	100	16.2	20		11/26/19 09:40	103-65-1	
o-Xylene	<5.2	ug/L	20.0	5.2	20		11/26/19 09:40	95-47-6	
p-Isopropyltoluene	<16.0	ug/L	53.3	16.0	20		11/26/19 09:40	99-87-6	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199817

Sample: MW-18R	Lab ID: 40199817008	Collected: 11/21/19 09:58	Received: 11/23/19 08:15	Matrix: Water					
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
sec-Butylbenzene	<17.0	ug/L	100	17.0	20		11/26/19 09:40	135-98-8	
tert-Butylbenzene	<6.1	ug/L	20.3	6.1	20		11/26/19 09:40	98-06-6	
trans-1,2-Dichloroethene	<21.8	ug/L	72.7	21.8	20		11/26/19 09:40	156-60-5	
trans-1,3-Dichloropropene	<87.4	ug/L	291	87.4	20		11/26/19 09:40	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	83	%	70-130		20		11/26/19 09:40	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		20		11/26/19 09:40	1868-53-7	
Toluene-d8 (S)	93	%	70-130		20		11/26/19 09:40	2037-26-5	
300.0 IC Anions Analytical Method: EPA 300.0									
Sulfate	78.4	mg/L	10.0	2.2	5		12/04/19 17:56	14808-79-8	
310.2 Alkalinity Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	299	mg/L	47.0	14.1	2		12/03/19 12:36		
5310C TOC Analytical Method: SM 5310C									
Total Organic Carbon	1.7	mg/L	0.50	0.15	1		12/04/19 05:57	7440-44-0	

Sample: MW-20	Lab ID: 40199817009	Collected: 11/21/19 08:36	Received: 11/23/19 08:15	Matrix: Water					
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/26/19 16:45	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/26/19 16:45	71-55-6	
1,1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/26/19 16:45	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/26/19 16:45	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/26/19 16:45	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/26/19 16:45	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/26/19 16:45	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/26/19 16:45	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/26/19 16:45	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/26/19 16:45	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/26/19 16:45	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/26/19 16:45	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/26/19 16:45	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/26/19 16:45	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/26/19 16:45	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/26/19 16:45	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/26/19 16:45	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/26/19 16:45	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/26/19 16:45	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/26/19 16:45	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/26/19 16:45	594-20-7	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199817

Sample: MW-20 **Lab ID: 40199817009** Collected: 11/21/19 08:36 Received: 11/23/19 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/26/19 16:45	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/26/19 16:45	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		11/26/19 16:45	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/26/19 16:45	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/26/19 16:45	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/26/19 16:45	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/26/19 16:45	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/26/19 16:45	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/26/19 16:45	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/26/19 16:45	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/26/19 16:45	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/26/19 16:45	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/26/19 16:45	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/26/19 16:45	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/26/19 16:45	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/26/19 16:45	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/26/19 16:45	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/26/19 16:45	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/26/19 16:45	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/26/19 16:45	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/26/19 16:45	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/26/19 16:45	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/26/19 16:45	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		11/26/19 16:45	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/26/19 16:45	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/26/19 16:45	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		11/26/19 16:45	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/26/19 16:45	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/26/19 16:45	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		11/26/19 16:45	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/26/19 16:45	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/26/19 16:45	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/26/19 16:45	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/26/19 16:45	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/26/19 16:45	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/26/19 16:45	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/26/19 16:45	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/26/19 16:45	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		11/26/19 16:45	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/26/19 16:45	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	83	%	70-130		1		11/26/19 16:45	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		1		11/26/19 16:45	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		11/26/19 16:45	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199817

Sample: DUP-1 **Lab ID: 40199817010** Collected: 11/21/19 00:00 Received: 11/23/19 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/26/19 17:07	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/26/19 17:07	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/26/19 17:07	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/26/19 17:07	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/26/19 17:07	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/26/19 17:07	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/26/19 17:07	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/26/19 17:07	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/26/19 17:07	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/26/19 17:07	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/26/19 17:07	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/26/19 17:07	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/26/19 17:07	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/26/19 17:07	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/26/19 17:07	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/26/19 17:07	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/26/19 17:07	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/26/19 17:07	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/26/19 17:07	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/26/19 17:07	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/26/19 17:07	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/26/19 17:07	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/26/19 17:07	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		11/26/19 17:07	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/26/19 17:07	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/26/19 17:07	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/26/19 17:07	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/26/19 17:07	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/26/19 17:07	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/26/19 17:07	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/26/19 17:07	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/26/19 17:07	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/26/19 17:07	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/26/19 17:07	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/26/19 17:07	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/26/19 17:07	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/26/19 17:07	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/26/19 17:07	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/26/19 17:07	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/26/19 17:07	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/26/19 17:07	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/26/19 17:07	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/26/19 17:07	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/26/19 17:07	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		11/26/19 17:07	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/26/19 17:07	127-18-4	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199817

Sample: DUP-1 **Lab ID: 40199817010** Collected: 11/21/19 00:00 Received: 11/23/19 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Toluene	<0.17	ug/L	5.0	0.17	1		11/26/19 17:07	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		11/26/19 17:07	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/26/19 17:07	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/26/19 17:07	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		11/26/19 17:07	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/26/19 17:07	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/26/19 17:07	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/26/19 17:07	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/26/19 17:07	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/26/19 17:07	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/26/19 17:07	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/26/19 17:07	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/26/19 17:07	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		11/26/19 17:07	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/26/19 17:07	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	86	%	70-130		1		11/26/19 17:07	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		11/26/19 17:07	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		11/26/19 17:07	2037-26-5	

Sample: TRIP **Lab ID: 40199817011** Collected: 11/21/19 00:00 Received: 11/23/19 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		11/26/19 15:18	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		11/26/19 15:18	71-55-6	
1,1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		11/26/19 15:18	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		11/26/19 15:18	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		11/26/19 15:18	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		11/26/19 15:18	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		11/26/19 15:18	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		11/26/19 15:18	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		11/26/19 15:18	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		11/26/19 15:18	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		11/26/19 15:18	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		11/26/19 15:18	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		11/26/19 15:18	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		11/26/19 15:18	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		11/26/19 15:18	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		11/26/19 15:18	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		11/26/19 15:18	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		11/26/19 15:18	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		11/26/19 15:18	142-28-9	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199817

Sample: TRIP **Lab ID:** 40199817011 Collected: 11/21/19 00:00 Received: 11/23/19 08:15 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		11/26/19 15:18	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		11/26/19 15:18	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		11/26/19 15:18	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		11/26/19 15:18	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		11/26/19 15:18	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		11/26/19 15:18	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		11/26/19 15:18	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		11/26/19 15:18	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		11/26/19 15:18	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		11/26/19 15:18	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		11/26/19 15:18	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		11/26/19 15:18	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		11/26/19 15:18	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		11/26/19 15:18	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		11/26/19 15:18	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		11/26/19 15:18	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		11/26/19 15:18	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		11/26/19 15:18	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		11/26/19 15:18	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		11/26/19 15:18	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		11/26/19 15:18	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		11/26/19 15:18	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		11/26/19 15:18	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		11/26/19 15:18	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		11/26/19 15:18	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		11/26/19 15:18	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		11/26/19 15:18	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		11/26/19 15:18	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		11/26/19 15:18	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		11/26/19 15:18	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		11/26/19 15:18	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		11/26/19 15:18	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		11/26/19 15:18	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		11/26/19 15:18	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		11/26/19 15:18	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		11/26/19 15:18	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		11/26/19 15:18	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		11/26/19 15:18	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		11/26/19 15:18	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		11/26/19 15:18	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		11/26/19 15:18	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		11/26/19 15:18	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	87	%	70-130		1		11/26/19 15:18	460-00-4	
Dibromofluoromethane (S)	94	%	70-130		1		11/26/19 15:18	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		11/26/19 15:18	2037-26-5	

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199817

QC Batch: 341854 Analysis Method: EPA 8015B Modified
QC Batch Method: EPA 8015B Modified Analysis Description: Methane, Ethane, Ethene GCV
Associated Lab Samples: 40199817001, 40199817002, 40199817003, 40199817006, 40199817008

METHOD BLANK: 1985615 Matrix: Water
Associated Lab Samples: 40199817001, 40199817002, 40199817003, 40199817006, 40199817008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	<1.2	5.6	11/26/19 08:24	
Ethene	ug/L	<1.2	5.0	11/26/19 08:24	
Methane	ug/L	<0.66	2.8	11/26/19 08:24	

LABORATORY CONTROL SAMPLE & LCSD: 1985616

Parameter	Units	1985616		1985617		% Rec	% Rec	% Rec	RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec						
Ethane	ug/L	53.6	54.7	54.7	102	102	80-120	0	20		
Ethene	ug/L	50	50.8	50.7	102	101	80-120	0	20		
Methane	ug/L	28.6	27.9	27.9	98	98	80-120	0	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1985903 1985904

Parameter	Units	1985903		1985904		% Rec	% Rec	% Rec	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Ethane	ug/L	<1.2	53.6	53.6	52.1	49.3	97	92	80-120	6	20
Ethene	ug/L	<1.2	50	50	47.9	45.3	96	91	80-120	6	20
Methane	ug/L	<0.66	28.6	28.6	26.2	25.0	92	88	77-122	5	20

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199817

QC Batch: 341922 Analysis Method: EPA 6010
QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved
Associated Lab Samples: 40199817001, 40199817002, 40199817003, 40199817006, 40199817008

METHOD BLANK: 1985825 Matrix: Water
Associated Lab Samples: 40199817001, 40199817002, 40199817003, 40199817006, 40199817008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Dissolved	ug/L	<29.6	100	11/26/19 20:26	
Manganese, Dissolved	ug/L	<1.1	5.0	11/26/19 20:26	

LABORATORY CONTROL SAMPLE: 1985826

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	ug/L	5000	4790	96	80-120	
Manganese, Dissolved	ug/L	500	482	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1985827 1985828

Parameter	Units	40199775001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron, Dissolved	ug/L	<29.6	5000	5000	4640	4610	93	92	75-125	1	20	
Manganese, Dissolved	ug/L	79.6	500	500	552	552	94	95	75-125	0	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199817

QC Batch: 341741 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40199817001, 40199817002, 40199817003, 40199817004, 40199817005, 40199817006, 40199817007, 40199817008, 40199817009, 40199817010, 40199817011

METHOD BLANK: 1985210 Matrix: Water
Associated Lab Samples: 40199817001, 40199817002, 40199817003, 40199817004, 40199817005, 40199817006, 40199817007, 40199817008, 40199817009, 40199817010, 40199817011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	11/26/19 06:23	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	11/26/19 06:23	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	11/26/19 06:23	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	11/26/19 06:23	
1,1-Dichloroethane	ug/L	<0.27	1.0	11/26/19 06:23	
1,1-Dichloroethene	ug/L	<0.24	1.0	11/26/19 06:23	
1,1-Dichloropropene	ug/L	<0.54	1.8	11/26/19 06:23	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	11/26/19 06:23	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	11/26/19 06:23	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	11/26/19 06:23	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	11/26/19 06:23	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	11/26/19 06:23	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	11/26/19 06:23	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	11/26/19 06:23	
1,2-Dichloroethane	ug/L	<0.28	1.0	11/26/19 06:23	
1,2-Dichloropropane	ug/L	<0.28	1.0	11/26/19 06:23	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	11/26/19 06:23	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	11/26/19 06:23	
1,3-Dichloropropane	ug/L	<0.83	2.8	11/26/19 06:23	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	11/26/19 06:23	
2,2-Dichloropropane	ug/L	<2.3	7.6	11/26/19 06:23	
2-Chlorotoluene	ug/L	<0.93	5.0	11/26/19 06:23	
4-Chlorotoluene	ug/L	<0.76	2.5	11/26/19 06:23	
Benzene	ug/L	<0.25	1.0	11/26/19 06:23	
Bromobenzene	ug/L	<0.24	1.0	11/26/19 06:23	
Bromochloromethane	ug/L	<0.36	5.0	11/26/19 06:23	
Bromodichloromethane	ug/L	<0.36	1.2	11/26/19 06:23	
Bromoform	ug/L	<4.0	13.2	11/26/19 06:23	
Bromomethane	ug/L	<0.97	5.0	11/26/19 06:23	
Carbon tetrachloride	ug/L	<0.17	1.0	11/26/19 06:23	
Chlorobenzene	ug/L	<0.71	2.4	11/26/19 06:23	
Chloroethane	ug/L	<1.3	5.0	11/26/19 06:23	
Chloroform	ug/L	<1.3	5.0	11/26/19 06:23	
Chloromethane	ug/L	<2.2	7.3	11/26/19 06:23	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	11/26/19 06:23	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	11/26/19 06:23	
Dibromochloromethane	ug/L	<2.6	8.7	11/26/19 06:23	
Dibromomethane	ug/L	<0.94	3.1	11/26/19 06:23	
Dichlorodifluoromethane	ug/L	<0.50	5.0	11/26/19 06:23	
Diisopropyl ether	ug/L	<1.9	6.3	11/26/19 06:23	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199817

METHOD BLANK: 1985210

Matrix: Water

Associated Lab Samples: 40199817001, 40199817002, 40199817003, 40199817004, 40199817005, 40199817006, 40199817007, 40199817008, 40199817009, 40199817010, 40199817011

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	<0.22	1.0	11/26/19 06:23	
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	11/26/19 06:23	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	11/26/19 06:23	
m&p-Xylene	ug/L	<0.47	2.0	11/26/19 06:23	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	11/26/19 06:23	
Methylene Chloride	ug/L	<0.58	5.0	11/26/19 06:23	
n-Butylbenzene	ug/L	<0.71	2.4	11/26/19 06:23	
n-Propylbenzene	ug/L	<0.81	5.0	11/26/19 06:23	
Naphthalene	ug/L	<1.2	5.0	11/26/19 06:23	
o-Xylene	ug/L	<0.26	1.0	11/26/19 06:23	
p-Isopropyltoluene	ug/L	<0.80	2.7	11/26/19 06:23	
sec-Butylbenzene	ug/L	<0.85	5.0	11/26/19 06:23	
Styrene	ug/L	<0.47	1.6	11/26/19 06:23	
tert-Butylbenzene	ug/L	<0.30	1.0	11/26/19 06:23	
Tetrachloroethene	ug/L	<0.33	1.1	11/26/19 06:23	
Toluene	ug/L	<0.17	5.0	11/26/19 06:23	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	11/26/19 06:23	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	11/26/19 06:23	
Trichloroethene	ug/L	<0.26	1.0	11/26/19 06:23	
Trichlorofluoromethane	ug/L	<0.21	1.0	11/26/19 06:23	
Vinyl chloride	ug/L	<0.17	1.0	11/26/19 06:23	
4-Bromofluorobenzene (S)	%	86	70-130	11/26/19 06:23	
Dibromofluoromethane (S)	%	96	70-130	11/26/19 06:23	
Toluene-d8 (S)	%	96	70-130	11/26/19 06:23	

LABORATORY CONTROL SAMPLE: 1985211

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	51.0	102	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	48.5	97	70-130	
1,1,2-Trichloroethane	ug/L	50	48.3	97	70-130	
1,1-Dichloroethane	ug/L	50	41.8	84	73-150	
1,1-Dichloroethene	ug/L	50	46.0	92	73-138	
1,2,4-Trichlorobenzene	ug/L	50	49.6	99	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	42.2	84	64-129	
1,2-Dibromoethane (EDB)	ug/L	50	54.8	110	70-130	
1,2-Dichlorobenzene	ug/L	50	51.8	104	70-130	
1,2-Dichloroethane	ug/L	50	41.9	84	75-140	
1,2-Dichloropropane	ug/L	50	44.4	89	73-135	
1,3-Dichlorobenzene	ug/L	50	51.5	103	70-130	
1,4-Dichlorobenzene	ug/L	50	52.7	105	70-130	
Benzene	ug/L	50	48.0	96	70-130	
Bromodichloromethane	ug/L	50	44.6	89	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199817

LABORATORY CONTROL SAMPLE: 1985211

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	50	56.7	113	68-129	
Bromomethane	ug/L	50	27.7	55	18-159	
Carbon tetrachloride	ug/L	50	49.7	99	70-130	
Chlorobenzene	ug/L	50	53.0	106	70-130	
Chloroethane	ug/L	50	32.2	64	53-147	
Chloroform	ug/L	50	47.7	95	74-136	
Chloromethane	ug/L	50	22.6	45	29-115	
cis-1,2-Dichloroethene	ug/L	50	48.2	96	70-130	
cis-1,3-Dichloropropene	ug/L	50	47.2	94	70-130	
Dibromochloromethane	ug/L	50	52.5	105	70-130	
Dichlorodifluoromethane	ug/L	50	30.0	60	10-130	
Ethylbenzene	ug/L	50	51.8	104	80-124	
Isopropylbenzene (Cumene)	ug/L	50	56.5	113	70-130	
m&p-Xylene	ug/L	100	113	113	70-130	
Methyl-tert-butyl ether	ug/L	50	38.4	77	54-137	
Methylene Chloride	ug/L	50	41.0	82	73-138	
o-Xylene	ug/L	50	56.4	113	70-130	
Styrene	ug/L	50	57.3	115	70-130	
Tetrachloroethene	ug/L	50	47.7	95	70-130	
Toluene	ug/L	50	50.7	101	80-126	
trans-1,2-Dichloroethene	ug/L	50	49.5	99	73-145	
trans-1,3-Dichloropropene	ug/L	50	47.8	96	70-130	
Trichloroethene	ug/L	50	50.2	100	70-130	
Trichlorofluoromethane	ug/L	50	43.5	87	76-147	
Vinyl chloride	ug/L	50	34.2	68	51-120	
4-Bromofluorobenzene (S)	%			94	70-130	
Dibromofluoromethane (S)	%			90	70-130	
Toluene-d8 (S)	%			94	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1985711 1985712

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40199817001 Result	Spike Conc.	Spike Conc.	Conc.								
1,1,1-Trichloroethane	ug/L	<0.24	50	50	51.3	50.2	103	100	70-130	2	20		
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	53.2	55.9	106	112	70-130	5	20		
1,1,2-Trichloroethane	ug/L	<0.55	50	50	49.2	48.7	98	97	70-137	1	20		
1,1-Dichloroethane	ug/L	1.5	50	50	41.6	41.5	80	80	73-153	0	20		
1,1-Dichloroethene	ug/L	<0.24	50	50	44.4	43.8	89	88	73-138	1	20		
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	48.7	50.4	97	101	70-130	3	20		
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	46.1	46.5	92	93	58-129	1	20		
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	54.7	54.5	109	109	70-130	0	20		
1,2-Dichlorobenzene	ug/L	<0.71	50	50	53.1	55.3	106	111	70-130	4	20		
1,2-Dichloroethane	ug/L	<0.28	50	50	41.7	42.2	83	84	75-140	1	20		
1,2-Dichloropropane	ug/L	<0.28	50	50	45.9	44.0	92	88	71-138	4	20		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199817

Parameter	Units	1985711		1985712		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		40199817001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
1,3-Dichlorobenzene	ug/L	<0.63	50	50	52.1	53.9	104	108	70-130	3	20	
1,4-Dichlorobenzene	ug/L	<0.94	50	50	52.1	54.3	104	109	70-130	4	20	
Benzene	ug/L	<0.25	50	50	48.8	47.6	98	95	70-130	2	20	
Bromodichloromethane	ug/L	<0.36	50	50	45.7	45.7	91	91	70-130	0	20	
Bromoform	ug/L	<4.0	50	50	57.1	56.5	114	113	68-129	1	20	
Bromomethane	ug/L	<0.97	50	50	28.3	28.8	57	58	15-170	2	20	
Carbon tetrachloride	ug/L	<0.17	50	50	49.8	48.1	100	96	70-130	4	20	
Chlorobenzene	ug/L	<0.71	50	50	54.9	53.1	110	106	70-130	3	20	
Chloroethane	ug/L	<1.3	50	50	32.3	31.5	65	63	51-148	2	20	
Chloroform	ug/L	<1.3	50	50	47.1	45.3	94	91	74-136	4	20	
Chloromethane	ug/L	<2.2	50	50	23.7	22.5	47	45	23-115	5	20	
cis-1,2-Dichloroethene	ug/L	7.0	50	50	55.9	53.6	98	93	70-131	4	20	
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	48.2	46.7	96	93	70-130	3	20	
Dibromochloromethane	ug/L	<2.6	50	50	54.0	52.7	108	105	70-130	2	20	
Dichlorodifluoromethane	ug/L	<0.50	50	50	30.2	27.6	60	55	10-132	9	20	
Ethylbenzene	ug/L	<0.22	50	50	53.0	52.8	106	106	80-125	0	20	
Isopropylbenzene (Cumene)	ug/L	<0.39	50	50	56.8	56.8	114	114	70-130	0	20	
m&p-Xylene	ug/L	<0.47	100	100	116	115	116	115	70-130	1	20	
Methyl-tert-butyl ether	ug/L	<1.2	50	50	38.6	38.0	77	76	51-145	2	20	
Methylene Chloride	ug/L	<0.58	50	50	42.3	41.0	85	82	73-140	3	20	
o-Xylene	ug/L	<0.26	50	50	58.0	56.1	116	112	70-130	3	20	
Styrene	ug/L	<0.47	50	50	59.6	59.3	119	119	70-130	0	20	
Tetrachloroethene	ug/L	<0.33	50	50	50.6	48.5	101	97	70-130	4	20	
Toluene	ug/L	<0.17	50	50	51.9	51.6	104	103	80-131	0	20	
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	48.0	48.8	96	98	73-148	2	20	
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	48.3	46.9	97	94	70-130	3	20	
Trichloroethene	ug/L	<0.26	50	50	47.7	46.9	95	94	70-130	2	20	
Trichlorofluoromethane	ug/L	<0.21	50	50	42.2	41.1	84	82	74-147	3	20	
Vinyl chloride	ug/L	6.7	50	50	39.6	37.9	66	62	41-129	4	20	
4-Bromofluorobenzene (S)	%						95	95	70-130			
Dibromofluoromethane (S)	%						93	91	70-130			
Toluene-d8 (S)	%						95	94	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199817

QC Batch: 342231

Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0

Analysis Description: 300.0 IC Anions

Associated Lab Samples: 40199817001, 40199817002, 40199817003, 40199817006, 40199817008

METHOD BLANK: 1987472

Matrix: Water

Associated Lab Samples: 40199817001, 40199817002, 40199817003, 40199817006, 40199817008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<0.44	2.0	12/04/19 10:37	

LABORATORY CONTROL SAMPLE: 1987473

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	20.2	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1987474 1987475

Parameter	Units	40199545001		40199545001		40199545001		40199545001		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS % Rec	MSD % Rec				
Sulfate	mg/L	68.2	400	400	479	479	103	103	90-110	0	15		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1987476 1987477

Parameter	Units	40199817008		40199817008		40199817008		40199817008		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS % Rec	MSD % Rec				
Sulfate	mg/L	78.4	100	100	180	177	101	98	90-110	2	15		

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199817

QC Batch: 342297 Analysis Method: EPA 310.2
QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity
Associated Lab Samples: 40199817001, 40199817002, 40199817003, 40199817006, 40199817008

METHOD BLANK: 1987719 Matrix: Water
Associated Lab Samples: 40199817001, 40199817002, 40199817003, 40199817006, 40199817008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	<7.0	23.5	12/03/19 12:19	

LABORATORY CONTROL SAMPLE: 1987720

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO ₃	mg/L	100	101	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1987721 1987722

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40199775011 Result	Spike Conc.	Spike Conc.	Conc.								
Alkalinity, Total as CaCO ₃	mg/L	431	500	500	906	911	95	96	90-110	0	20		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1987723 1987724

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40199653001 Result	Spike Conc.	Spike Conc.	Conc.								
Alkalinity, Total as CaCO ₃	mg/L	120	500	500	575	617	91	100	90-110	7	20		

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199817

QC Batch: 342283 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 40199817001, 40199817002, 40199817003, 40199817006, 40199817008

METHOD BLANK: 1987659 Matrix: Water
Associated Lab Samples: 40199817001, 40199817002, 40199817003, 40199817006, 40199817008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<0.15	0.50	12/03/19 23:18	

LABORATORY CONTROL SAMPLE: 1987660

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	2.5	2.4	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1987661 1987662

Parameter	Units	1987661		1987662		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40199766003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Total Organic Carbon	mg/L	1.9	1	1	2.8	2.8	97	99	80-120	1	10

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1987663 1987664

Parameter	Units	1987663		1987664		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40199977005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Total Organic Carbon	mg/L	0.38J	1	1	0.98	0.98	60	60	80-120	0	10 M0

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QUALIFIERS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40199817

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40199817

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40199817001	MW-07R	EPA 8015B Modified	341854		
40199817002	MW-37R	EPA 8015B Modified	341854		
40199817003	MW-17R	EPA 8015B Modified	341854		
40199817006	MW-39	EPA 8015B Modified	341854		
40199817008	MW-18R	EPA 8015B Modified	341854		
40199817001	MW-07R	EPA 6010	341922		
40199817002	MW-37R	EPA 6010	341922		
40199817003	MW-17R	EPA 6010	341922		
40199817006	MW-39	EPA 6010	341922		
40199817008	MW-18R	EPA 6010	341922		
40199817001	MW-07R	EPA 8260	341741		
40199817002	MW-37R	EPA 8260	341741		
40199817003	MW-17R	EPA 8260	341741		
40199817004	MW-11	EPA 8260	341741		
40199817005	MW-19	EPA 8260	341741		
40199817006	MW-39	EPA 8260	341741		
40199817007	MW-15	EPA 8260	341741		
40199817008	MW-18R	EPA 8260	341741		
40199817009	MW-20	EPA 8260	341741		
40199817010	DUP-1	EPA 8260	341741		
40199817011	TRIP	EPA 8260	341741		
40199817001	MW-07R	EPA 300.0	342231		
40199817002	MW-37R	EPA 300.0	342231		
40199817003	MW-17R	EPA 300.0	342231		
40199817006	MW-39	EPA 300.0	342231		
40199817008	MW-18R	EPA 300.0	342231		
40199817001	MW-07R	EPA 310.2	342297		
40199817002	MW-37R	EPA 310.2	342297		
40199817003	MW-17R	EPA 310.2	342297		
40199817006	MW-39	EPA 310.2	342297		
40199817008	MW-18R	EPA 310.2	342297		
40199817001	MW-07R	SM 5310C	342283		
40199817002	MW-37R	SM 5310C	342283		
40199817003	MW-17R	SM 5310C	342283		
40199817006	MW-39	SM 5310C	342283		
40199817008	MW-18R	SM 5310C	342283		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: GZA GeoEnvironmental

Branch/Location: Waukesha

Project Contact: Kevin Hedinger

Phone: 262-424-1761

Project Number: 20 0156935 01

Project Name: Trent Tube

Project State: WI

Sampled By (Print): *Alle Amundson*

Sampled By (Sign): *[Signature]*

PO #:

Regulatory Program:

Data Package Options

EPA Level III

EPA Level IV

MS/MSD (billable)

On your sample (billable)

NOT needed on your sample

A = Air

B = Biota

C = Charcoal

O = Oil

S = Soil

SI = Sludge

W = Water

DW = Drinking Water

GW = Ground Water

SW = Surface Water

WW = Waste Water

WP = Wipe

Matrix Codes

CLIENT FIELD ID

PAGE LAB #

DATE

TIME

MATRIX

RELINQUISHED BY

DATE/TIME

CHAIN OF CUSTODY



www.paceanalytical.com

UPPER MIDWEST REGION
MN: 612-807-1700 WI: 920-489-2436

Page of

Quote #:

4019987

Mail To Contact:

Kevin Hedinger

Mail To Company:

GZA GeoEnvironmental

Mail To Address:

20900 Swenson Drive, Suite 150
Waukesha, WI 53186

Invoice To Contact:

Kevin Hedinger

Invoice To Company:

GZA GeoEnvironmental

Invoice To Address:

20900 Swenson Drive, Suite 150
Waukesha, WI 53186

Invoice To Phone:

CLIENT COMMENTS

LAB COMMENTS (Lab Use Only)

Profile #

FILTERED? (YES/NO)
PRESERVATION (CODE)*
A=None B=HCl C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H=Sodium Bisulfate Solution I=Sodium Thiosulfate J=Other

Y/N	Pick Letter	Analyses Requested
N	B	VOC
Y	D	Dissolved Mn and Fe
N	B	Methane, Ethane, Ethene
N	A	Sulfate, Alkalinity
N	C	TOC

CLIENT FIELD ID	DATE	TIME	MATRIX	RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME	LAB COMMENTS
001 MW-07R	11/21/19	0905	GW	<i>[Signature]</i>	11-22-19 8:13	<i>[Signature]</i>	11-23-19 9:08	
002 MW-37R		1037	GW	<i>[Signature]</i>	11-23-19 1326	<i>[Signature]</i>	11-23-19 1408	
003 MW-17R		1033	GW	<i>[Signature]</i>	11-23-19 0815	<i>[Signature]</i>	11-23-19 1408	
004 MW-11		11:19	GW	<i>[Signature]</i>				
005 MW-19		0915	GW	<i>[Signature]</i>				
006 MW-39		0958	GW	<i>[Signature]</i>				
007 MW-15		0830	GW	<i>[Signature]</i>				
008 MW-18R		0958	GW	<i>[Signature]</i>				
009 MW-20		0836	GW	<i>[Signature]</i>				
010 DUP-1			GW	<i>[Signature]</i>				
011 TRIP				<i>[Signature]</i>				

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge) Date Needed:

Relinquished By: *[Signature]* Date/Time: 11-22-19 8:13

Received By: *[Signature]* Date/Time: 11-23-19 9:08

Relinquished By: *[Signature]* Date/Time: 11-23-19 1326

Received By: *[Signature]* Date/Time: 11-23-19 1408

Relinquished By: *[Signature]* Date/Time: 11-23-19 0815

Received By: *[Signature]* Date/Time: 11-23-19 1408

Relinquished By: *[Signature]* Date/Time: 11-23-19 0815

Received By: *[Signature]* Date/Time: 11-23-19 1408

Samples on HOLD are subject to special pricing and release of liability

PACE Project No. 4019987
Receipt Temp = 40 °C
Sample Receipt pH OK/ Adjusted
Cooler Custody Seal Present/ Not Present
Intact / Not Intact

Sample Preservation Receipt Form

Client Name: 674 Environmental

Project # 40199877

All containers needing preservation have been checked and noted below. Yes No N/A

Lab Lot# of pH paper: 0153581

Lab Sid #ID of preservation (if pH adjusted):

Initial when completed: BP


Date/Time: 11-23-14

Pace Analytical Services, LLC
1241 Bellevue Street, Suite 9
Green Bay, WI 54302


Pace Lab #	AG1U AG1H AG4S AG4U AG5U AG2S BG3U	BP1U BP2N BP2Z BP3U BP3B BP3N BP3S	DG9A DG9T VG9U VG9H VG9M VG9D	JGFU WGFU WPFU	SP5T ZPLC GN	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001												2.5 / 5 / 10
002										X		2.5 / 5 / 10
003										X		2.5 / 5 / 10
004										X		2.5 / 5 / 10
005										X		2.5 / 5 / 10
006										X		2.5 / 5 / 10
007										X		2.5 / 5 / 10
008										X		2.5 / 5 / 10
009										X		2.5 / 5 / 10
010										X		2.5 / 5 / 10
011										X		2.5 / 5 / 10
012										X		2.5 / 5 / 10
013										X		2.5 / 5 / 10
014										X		2.5 / 5 / 10
015										X		2.5 / 5 / 10
016										X		2.5 / 5 / 10
017										X		2.5 / 5 / 10
018										X		2.5 / 5 / 10
019										X		2.5 / 5 / 10
020										X		2.5 / 5 / 10

Exceptions to preservation check: VOA, Coliform, SOC, TOX, TOH, O&G, WI DRO, Phenolics, Other: _____

AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3B	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN:
1 liter amber glass	1 liter amber glass HCL	125 mL amber glass H2SO4	120 mL amber glass unpres	100 mL amber glass unpres	500 mL amber glass H2SO4	250 mL clear glass unpres	1 liter plastic unpres	500 mL plastic HNO3	500 mL plastic NaOH, Znact	250 mL plastic unpres	250 mL plastic NaOH	250 mL plastic HNO3	250 mL plastic H2SO4	40 mL amber ascorbic	40 mL amber Na Thio	40 mL clear vial unpres	40 mL clear vial HCL	40 mL clear vial MeOH	40 mL clear vial DI	4 oz amber jar unpres	4 oz clear jar unpres	4 oz plastic jar unpres	120 mL plastic Na Thiosulfate	ziploc bag	

 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 25Apr2018
	Document No.: F-GB-C-031-Rev.07	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: GZA Geoenvironmental Project #:
WO# : 40199817

40199817

Courier: CS Logistics Fed Ex Speedee UPS Walco
 Client Pace Other: _____

Tracking #: _____

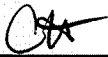
Custody Seal on Cooler/Box Present: yes no Seals intact: yes no
 Custody Seal on Samples Present: yes no Seals intact: yes no
 Packing Material: Bubble Wrap Bubble Bags None Other
 Thermometer Used: SR - 91 Type of Ice: Wet Blue Dry None Samples on ice, cooling process has begun
 Cooler Temperature: Uncorr: 3.5 ICorr: 4.0
 Temp Blank Present: yes no Biological Tissue is Frozen: yes no

Person examining contents:
 Date: 11-23-19
 Initials: BL

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time: _____
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>133</u>		

Client Notification/ Resolution: _____ If checked, see attached form for additional comments
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: empty vial sample 3 1 vial.

Project Manager Review:  Date: 11/25/19
 Page 2 of 2 Page 39 of 39

January 02, 2020

Kevin Hedinger
GZA
17975 West Sarah Lane
Suite 100
Brookfield, WI 53045

RE: Project: 20.0155935.01 T.4 TRENT TUBE
Pace Project No.: 40201206

Dear Kevin Hedinger:

Enclosed are the analytical results for sample(s) received by the laboratory on December 21, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 20.0155935.01 T.4 TRENT TUBE

Pace Project No.: 40201206

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 20.0155935.01 T.4 TRENT TUBE

Pace Project No.: 40201206

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40201206001	OP-14	Water	12/19/19 08:41	12/21/19 08:25
40201206002	MW-42	Water	12/19/19 10:33	12/21/19 08:25
40201206003	MW-41	Water	12/19/19 09:57	12/21/19 08:25
40201206004	MW-4	Water	12/19/19 09:24	12/21/19 08:25
40201206005	MW38	Water	12/19/19 11:07	12/21/19 08:25
40201206006	MW-2	Water	12/19/19 12:52	12/21/19 08:25
40201206007	MW-1R	Water	12/19/19 12:22	12/21/19 08:25
40201206008	MW-18R	Water	12/19/19 11:40	12/21/19 08:25
40201206009	DUP-1	Water	12/19/19 00:00	12/21/19 08:25
40201206010	TRIP	Water	12/19/19 00:00	12/21/19 08:25

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 20.0155935.01 T.4 TRENT TUBE

Pace Project No.: 40201206

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40201206001	OP-14	EPA 8015B Modified	MDS	3	PASI-G
		EPA 6010	TXW	1	PASI-G
		EPA 8260	HNW	64	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40201206002	MW-42	EPA 8015B Modified	MDS	3	PASI-G
		EPA 6010	TXW	1	PASI-G
		EPA 8260	HNW	64	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40201206003	MW-41	EPA 8015B Modified	MDS	3	PASI-G
		EPA 6010	TXW	1	PASI-G
		EPA 8260	HNW	64	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40201206004	MW-4	EPA 8015B Modified	MDS	3	PASI-G
		EPA 6010	TXW	1	PASI-G
		EPA 8260	HNW	64	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40201206005	MW38	EPA 8015B Modified	MDS	3	PASI-G
		EPA 6010	TXW	1	PASI-G
		EPA 8260	LAP	64	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40201206006	MW-2	EPA 8015B Modified	MDS	3	PASI-G
		EPA 6010	TXW	1	PASI-G
		EPA 8260	HNW	64	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40201206007	MW-1R	EPA 8015B Modified	MDS	3	PASI-G
		EPA 6010	TXW	1	PASI-G
		EPA 8260	HNW	64	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40201206008	MW-18R	EPA 8015B Modified	MDS	3	PASI-G
		EPA 6010	TXW	1	PASI-G

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 20.0155935.01 T.4 TRENT TUBE
Pace Project No.: 40201206

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40201206009	DUP-1	EPA 8260	HNW	64	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
		EPA 8015B Modified	MDS	3	PASI-G
		EPA 6010	TXW	1	PASI-G
		EPA 8260	HNW	64	PASI-G
		EPA 300.0	HMB	1	PASI-G
40201206010	TRIP	SM 5310C	TJJ	1	PASI-G
		EPA 8260	HNW	64	PASI-G

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 20.0155935.01 T.4 TRENT TUBE
Pace Project No.: 40201206

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40201206001	OP-14					
EPA 6010	Iron, Dissolved	529	ug/L	100	12/27/19 16:27	
EPA 8260	Tetrachloroethene	10J	ug/L	10.9	12/24/19 15:17	
EPA 8260	Trichloroethene	748	ug/L	10.0	12/24/19 15:17	
EPA 8260	cis-1,2-Dichloroethene	14.7	ug/L	10.0	12/24/19 15:17	
EPA 300.0	Sulfate	86.9	mg/L	10.0	12/27/19 11:44	
SM 5310C	Total Organic Carbon	16.4	mg/L	5.0	12/31/19 08:20	
40201206002	MW-42					
EPA 6010	Iron, Dissolved	14500	ug/L	100	12/27/19 16:30	
EPA 8260	Trichloroethene	3890	ug/L	50.0	12/24/19 15:38	
EPA 8260	cis-1,2-Dichloroethene	1240	ug/L	50.0	12/24/19 15:38	
EPA 300.0	Sulfate	13.2	mg/L	10.0	12/27/19 12:27	
SM 5310C	Total Organic Carbon	179	mg/L	50.0	12/31/19 09:23	
40201206003	MW-41					
EPA 6010	Iron, Dissolved	65.3J	ug/L	100	12/27/19 16:32	
EPA 8260	1,1,1-Trichloroethane	2.6	ug/L	1.0	12/24/19 14:55	
EPA 8260	1,1-Dichloroethane	4.0	ug/L	1.0	12/24/19 14:55	
EPA 8260	Tetrachloroethene	0.86J	ug/L	1.1	12/24/19 14:55	
EPA 8260	Trichloroethene	32.3	ug/L	1.0	12/24/19 14:55	
EPA 8260	cis-1,2-Dichloroethene	3.9	ug/L	1.0	12/24/19 14:55	
EPA 300.0	Sulfate	52.1	mg/L	10.0	12/27/19 12:42	
SM 5310C	Total Organic Carbon	2.0	mg/L	0.50	12/30/19 16:12	
40201206004	MW-4					
EPA 6010	Iron, Dissolved	44.9J	ug/L	100	12/27/19 16:34	
EPA 8260	1,1,1-Trichloroethane	2.3	ug/L	2.0	12/24/19 16:00	
EPA 8260	1,1-Dichloroethane	1.8J	ug/L	2.0	12/24/19 16:00	
EPA 8260	Tetrachloroethene	3.0	ug/L	2.2	12/24/19 16:00	
EPA 8260	Trichloroethene	117	ug/L	2.0	12/24/19 16:00	
EPA 8260	cis-1,2-Dichloroethene	16.9	ug/L	2.0	12/24/19 16:00	
EPA 300.0	Sulfate	34.5	mg/L	10.0	12/27/19 12:56	
SM 5310C	Total Organic Carbon	3.8	mg/L	0.50	12/30/19 16:33	
40201206005	MW38					
EPA 300.0	Sulfate	101	mg/L	10.0	12/27/19 13:36	
SM 5310C	Total Organic Carbon	1.4	mg/L	0.50	12/30/19 16:54	
40201206006	MW-2					
EPA 6010	Iron, Dissolved	286	ug/L	100	12/27/19 16:39	
EPA 8260	Trichloroethene	23.7	ug/L	20.0	12/26/19 14:15	
EPA 8260	Vinyl chloride	48.7	ug/L	20.0	12/26/19 14:15	
EPA 8260	cis-1,2-Dichloroethene	1850	ug/L	20.0	12/26/19 14:15	
EPA 300.0	Sulfate	28.4	mg/L	10.0	12/27/19 14:33	
SM 5310C	Total Organic Carbon	321	mg/L	150	12/31/19 09:44	
40201206007	MW-1R					
EPA 8260	1,1,1-Trichloroethane	1.2	ug/L	1.0	12/26/19 16:02	
EPA 8260	1,1-Dichloroethane	0.94J	ug/L	1.0	12/26/19 16:02	
EPA 300.0	Sulfate	285	mg/L	40.0	12/27/19 14:48	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 20.0155935.01 T.4 TRENT TUBE
Pace Project No.: 40201206

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40201206007	MW-1R					
SM 5310C	Total Organic Carbon	3.7	mg/L	1.0	12/30/19 17:35	
40201206008	MW-18R					
EPA 8015B Modified	Ethane	1.4J	ug/L	5.6	12/30/19 14:37	
EPA 8015B Modified	Methane	422	ug/L	28.0	12/30/19 15:11	
EPA 8260	1,1-Dichloroethene	5.4J	ug/L	10.0	12/26/19 14:36	
EPA 8260	Trichloroethene	2270	ug/L	10.0	12/26/19 14:36	
EPA 8260	Vinyl chloride	43.0	ug/L	10.0	12/26/19 14:36	
EPA 8260	cis-1,2-Dichloroethene	792	ug/L	10.0	12/26/19 14:36	
EPA 8260	trans-1,2-Dichloroethene	21.7J	ug/L	36.4	12/26/19 14:36	
EPA 300.0	Sulfate	73.0	mg/L	10.0	12/27/19 15:02	
SM 5310C	Total Organic Carbon	2.0	mg/L	0.50	12/30/19 17:56	
40201206009	DUP-1					
EPA 8015B Modified	Ethane	1.4J	ug/L	5.6	12/30/19 14:44	
EPA 8015B Modified	Methane	286	ug/L	28.0	12/30/19 15:18	
EPA 8260	Trichloroethene	1970	ug/L	20.0	12/26/19 14:58	
EPA 8260	Vinyl chloride	30.7	ug/L	20.0	12/26/19 14:58	
EPA 8260	cis-1,2-Dichloroethene	655	ug/L	20.0	12/26/19 14:58	
EPA 8260	trans-1,2-Dichloroethene	23.6J	ug/L	72.7	12/26/19 14:58	
EPA 300.0	Sulfate	70.0	mg/L	10.0	12/27/19 15:16	
SM 5310C	Total Organic Carbon	1.9	mg/L	0.50	12/30/19 18:17	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 T.4 TRENT TUBE

Pace Project No.: 40201206

Sample: OP-14 **Lab ID: 40201206001** Collected: 12/19/19 08:41 Received: 12/21/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV		Analytical Method: EPA 8015B Modified							
Ethane	<1.2	ug/L	5.6	1.2	1		12/30/19 13:48	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		12/30/19 13:48	74-85-1	
Methane	<0.66	ug/L	2.8	0.66	1		12/30/19 13:48	74-82-8	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	529	ug/L	100	29.6	1		12/27/19 16:27	7439-89-6	
8260 MSV		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<2.7	ug/L	10.0	2.7	10		12/24/19 15:17	630-20-6	
1,1,1-Trichloroethane	<2.4	ug/L	10.0	2.4	10		12/24/19 15:17	71-55-6	
1,1,2,2-Tetrachloroethane	<2.8	ug/L	10.0	2.8	10		12/24/19 15:17	79-34-5	
1,1,2-Trichloroethane	<5.5	ug/L	50.0	5.5	10		12/24/19 15:17	79-00-5	
1,1-Dichloroethane	<2.7	ug/L	10.0	2.7	10		12/24/19 15:17	75-34-3	
1,1-Dichloroethene	<2.4	ug/L	10.0	2.4	10		12/24/19 15:17	75-35-4	
1,1-Dichloropropene	<5.4	ug/L	18.0	5.4	10		12/24/19 15:17	563-58-6	
1,2,3-Trichlorobenzene	<6.3	ug/L	50.0	6.3	10		12/24/19 15:17	87-61-6	
1,2,3-Trichloropropane	<5.9	ug/L	50.0	5.9	10		12/24/19 15:17	96-18-4	
1,2,4-Trichlorobenzene	<9.5	ug/L	50.0	9.5	10		12/24/19 15:17	120-82-1	
1,2,4-Trimethylbenzene	<8.4	ug/L	28.0	8.4	10		12/24/19 15:17	95-63-6	
1,2-Dibromo-3-chloropropane	<17.6	ug/L	58.8	17.6	10		12/24/19 15:17	96-12-8	
1,2-Dibromoethane (EDB)	<8.3	ug/L	27.6	8.3	10		12/24/19 15:17	106-93-4	
1,2-Dichlorobenzene	<7.1	ug/L	23.5	7.1	10		12/24/19 15:17	95-50-1	
1,2-Dichloroethane	<2.8	ug/L	10.0	2.8	10		12/24/19 15:17	107-06-2	
1,2-Dichloropropane	<2.8	ug/L	10.0	2.8	10		12/24/19 15:17	78-87-5	
1,3,5-Trimethylbenzene	<8.7	ug/L	29.1	8.7	10		12/24/19 15:17	108-67-8	
1,3-Dichlorobenzene	<6.3	ug/L	20.9	6.3	10		12/24/19 15:17	541-73-1	
1,3-Dichloropropane	<8.3	ug/L	27.5	8.3	10		12/24/19 15:17	142-28-9	
1,4-Dichlorobenzene	<9.4	ug/L	31.5	9.4	10		12/24/19 15:17	106-46-7	
2,2-Dichloropropane	<22.7	ug/L	75.5	22.7	10		12/24/19 15:17	594-20-7	
2-Chlorotoluene	<9.3	ug/L	50.0	9.3	10		12/24/19 15:17	95-49-8	
4-Chlorotoluene	<7.6	ug/L	25.2	7.6	10		12/24/19 15:17	106-43-4	
Benzene	<2.5	ug/L	10.0	2.5	10		12/24/19 15:17	71-43-2	
Bromobenzene	<2.4	ug/L	10.0	2.4	10		12/24/19 15:17	108-86-1	
Bromochloromethane	<3.6	ug/L	50.0	3.6	10		12/24/19 15:17	74-97-5	
Bromodichloromethane	<3.6	ug/L	12.1	3.6	10		12/24/19 15:17	75-27-4	
Bromoform	<39.7	ug/L	132	39.7	10		12/24/19 15:17	75-25-2	
Bromomethane	<9.7	ug/L	50.0	9.7	10		12/24/19 15:17	74-83-9	
Carbon tetrachloride	<1.7	ug/L	10.0	1.7	10		12/24/19 15:17	56-23-5	
Chlorobenzene	<7.1	ug/L	23.7	7.1	10		12/24/19 15:17	108-90-7	
Chloroethane	<13.4	ug/L	50.0	13.4	10		12/24/19 15:17	75-00-3	
Chloroform	<12.7	ug/L	50.0	12.7	10		12/24/19 15:17	67-66-3	
Chloromethane	<21.9	ug/L	73.0	21.9	10		12/24/19 15:17	74-87-3	
Dibromochloromethane	<26.0	ug/L	86.7	26.0	10		12/24/19 15:17	124-48-1	
Dibromomethane	<9.4	ug/L	31.2	9.4	10		12/24/19 15:17	74-95-3	
Dichlorodifluoromethane	<5.0	ug/L	50.0	5.0	10		12/24/19 15:17	75-71-8	
Diisopropyl ether	<18.9	ug/L	62.9	18.9	10		12/24/19 15:17	108-20-3	

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ANALYTICAL RESULTS

Project: 20.0155935.01 T.4 TRENT TUBE
Pace Project No.: 40201206

Sample: OP-14 **Lab ID: 40201206001** Collected: 12/19/19 08:41 Received: 12/21/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Ethylbenzene	<2.2	ug/L	10.0	2.2	10		12/24/19 15:17	100-41-4	
Hexachloro-1,3-butadiene	<11.8	ug/L	50.0	11.8	10		12/24/19 15:17	87-68-3	
Isopropylbenzene (Cumene)	<3.9	ug/L	50.0	3.9	10		12/24/19 15:17	98-82-8	
Methyl-tert-butyl ether	<12.5	ug/L	41.5	12.5	10		12/24/19 15:17	1634-04-4	
Methylene Chloride	<5.8	ug/L	50.0	5.8	10		12/24/19 15:17	75-09-2	
Naphthalene	<11.8	ug/L	50.0	11.8	10		12/24/19 15:17	91-20-3	
Styrene	<4.7	ug/L	15.5	4.7	10		12/24/19 15:17	100-42-5	
Tetrachloroethene	10J	ug/L	10.9	3.3	10		12/24/19 15:17	127-18-4	
Toluene	<1.7	ug/L	50.0	1.7	10		12/24/19 15:17	108-88-3	
Trichloroethene	748	ug/L	10.0	2.6	10		12/24/19 15:17	79-01-6	
Trichlorofluoromethane	<2.1	ug/L	10.0	2.1	10		12/24/19 15:17	75-69-4	
Vinyl chloride	<1.7	ug/L	10.0	1.7	10		12/24/19 15:17	75-01-4	
cis-1,2-Dichloroethene	14.7	ug/L	10.0	2.7	10		12/24/19 15:17	156-59-2	
cis-1,3-Dichloropropene	<36.3	ug/L	121	36.3	10		12/24/19 15:17	10061-01-5	
m&p-Xylene	<4.7	ug/L	20.0	4.7	10		12/24/19 15:17	179601-23-1	
n-Butylbenzene	<7.1	ug/L	23.6	7.1	10		12/24/19 15:17	104-51-8	
n-Propylbenzene	<8.1	ug/L	50.0	8.1	10		12/24/19 15:17	103-65-1	
o-Xylene	<2.6	ug/L	10.0	2.6	10		12/24/19 15:17	95-47-6	
p-Isopropyltoluene	<8.0	ug/L	26.7	8.0	10		12/24/19 15:17	99-87-6	
sec-Butylbenzene	<8.5	ug/L	50.0	8.5	10		12/24/19 15:17	135-98-8	
tert-Butylbenzene	<3.0	ug/L	10.1	3.0	10		12/24/19 15:17	98-06-6	
trans-1,2-Dichloroethene	<10.9	ug/L	36.4	10.9	10		12/24/19 15:17	156-60-5	
trans-1,3-Dichloropropene	<43.7	ug/L	146	43.7	10		12/24/19 15:17	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		10		12/24/19 15:17	460-00-4	
Dibromofluoromethane (S)	93	%	70-130		10		12/24/19 15:17	1868-53-7	
Toluene-d8 (S)	95	%	70-130		10		12/24/19 15:17	2037-26-5	

300.0 IC Anions Analytical Method: EPA 300.0									
Sulfate	86.9	mg/L	10.0	2.2	5		12/27/19 11:44	14808-79-8	

5310C TOC Analytical Method: SM 5310C									
Total Organic Carbon	16.4	mg/L	5.0	1.5	10		12/31/19 08:20	7440-44-0	

Sample: MW-42 **Lab ID: 40201206002** Collected: 12/19/19 10:33 Received: 12/21/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Ethane	<1.2	ug/L	5.6	1.2	1		12/30/19 13:55	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		12/30/19 13:55	74-85-1	
Methane	<0.66	ug/L	2.8	0.66	1		12/30/19 13:55	74-82-8	

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ANALYTICAL RESULTS

Project: 20.0155935.01 T.4 TRENT TUBE

Pace Project No.: 40201206

Sample: MW-42 **Lab ID: 40201206002** Collected: 12/19/19 10:33 Received: 12/21/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	14500	ug/L	100	29.6	1		12/27/19 16:30	7439-89-6	
8260 MSV		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	< 13.5	ug/L	50.0	13.5	50		12/24/19 15:38	630-20-6	
1,1,1-Trichloroethane	< 12.2	ug/L	50.0	12.2	50		12/24/19 15:38	71-55-6	
1,1,2,2-Tetrachloroethane	< 13.8	ug/L	50.0	13.8	50		12/24/19 15:38	79-34-5	
1,1,2-Trichloroethane	< 27.6	ug/L	250	27.6	50		12/24/19 15:38	79-00-5	
1,1-Dichloroethane	< 13.6	ug/L	50.0	13.6	50		12/24/19 15:38	75-34-3	
1,1-Dichloroethene	< 12.2	ug/L	50.0	12.2	50		12/24/19 15:38	75-35-4	
1,1-Dichloropropene	< 27.0	ug/L	90.0	27.0	50		12/24/19 15:38	563-58-6	
1,2,3-Trichlorobenzene	< 31.3	ug/L	250	31.3	50		12/24/19 15:38	87-61-6	
1,2,3-Trichloropropane	< 29.5	ug/L	250	29.5	50		12/24/19 15:38	96-18-4	
1,2,4-Trichlorobenzene	< 47.6	ug/L	250	47.6	50		12/24/19 15:38	120-82-1	
1,2,4-Trimethylbenzene	< 42.0	ug/L	140	42.0	50		12/24/19 15:38	95-63-6	
1,2-Dibromo-3-chloropropane	< 88.2	ug/L	294	88.2	50		12/24/19 15:38	96-12-8	
1,2-Dibromoethane (EDB)	< 41.5	ug/L	138	41.5	50		12/24/19 15:38	106-93-4	
1,2-Dichlorobenzene	< 35.3	ug/L	118	35.3	50		12/24/19 15:38	95-50-1	
1,2-Dichloroethane	< 14.0	ug/L	50.0	14.0	50		12/24/19 15:38	107-06-2	
1,2-Dichloropropane	< 14.1	ug/L	50.0	14.1	50		12/24/19 15:38	78-87-5	
1,3,5-Trimethylbenzene	< 43.7	ug/L	146	43.7	50		12/24/19 15:38	108-67-8	
1,3-Dichlorobenzene	< 31.4	ug/L	105	31.4	50		12/24/19 15:38	541-73-1	
1,3-Dichloropropane	< 41.3	ug/L	138	41.3	50		12/24/19 15:38	142-28-9	
1,4-Dichlorobenzene	< 47.2	ug/L	157	47.2	50		12/24/19 15:38	106-46-7	
2,2-Dichloropropane	< 113	ug/L	378	113	50		12/24/19 15:38	594-20-7	
2-Chlorotoluene	< 46.3	ug/L	250	46.3	50		12/24/19 15:38	95-49-8	
4-Chlorotoluene	< 37.8	ug/L	126	37.8	50		12/24/19 15:38	106-43-4	
Benzene	< 12.3	ug/L	50.0	12.3	50		12/24/19 15:38	71-43-2	
Bromobenzene	< 12.1	ug/L	50.0	12.1	50		12/24/19 15:38	108-86-1	
Bromochloromethane	< 18.1	ug/L	250	18.1	50		12/24/19 15:38	74-97-5	
Bromodichloromethane	< 18.2	ug/L	60.6	18.2	50		12/24/19 15:38	75-27-4	
Bromoform	< 199	ug/L	662	199	50		12/24/19 15:38	75-25-2	
Bromomethane	< 48.6	ug/L	250	48.6	50		12/24/19 15:38	74-83-9	
Carbon tetrachloride	< 8.3	ug/L	50.0	8.3	50		12/24/19 15:38	56-23-5	
Chlorobenzene	< 35.5	ug/L	118	35.5	50		12/24/19 15:38	108-90-7	
Chloroethane	< 67.1	ug/L	250	67.1	50		12/24/19 15:38	75-00-3	
Chloroform	< 63.7	ug/L	250	63.7	50		12/24/19 15:38	67-66-3	
Chloromethane	< 109	ug/L	365	109	50		12/24/19 15:38	74-87-3	
Dibromochloromethane	< 130	ug/L	434	130	50		12/24/19 15:38	124-48-1	
Dibromomethane	< 46.8	ug/L	156	46.8	50		12/24/19 15:38	74-95-3	
Dichlorodifluoromethane	< 25.0	ug/L	250	25.0	50		12/24/19 15:38	75-71-8	
Diisopropyl ether	< 94.4	ug/L	315	94.4	50		12/24/19 15:38	108-20-3	
Ethylbenzene	< 10.9	ug/L	50.0	10.9	50		12/24/19 15:38	100-41-4	
Hexachloro-1,3-butadiene	< 59.1	ug/L	250	59.1	50		12/24/19 15:38	87-68-3	
Isopropylbenzene (Cumene)	< 19.6	ug/L	250	19.6	50		12/24/19 15:38	98-82-8	
Methyl-tert-butyl ether	< 62.3	ug/L	208	62.3	50		12/24/19 15:38	1634-04-4	
Methylene Chloride	< 29.0	ug/L	250	29.0	50		12/24/19 15:38	75-09-2	

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ANALYTICAL RESULTS

Project: 20.0155935.01 T.4 TRENT TUBE
Pace Project No.: 40201206

Sample: MW-42 Lab ID: 40201206002 Collected: 12/19/19 10:33 Received: 12/21/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Naphthalene	<58.8	ug/L	250	58.8	50		12/24/19 15:38	91-20-3	
Styrene	<23.3	ug/L	77.6	23.3	50		12/24/19 15:38	100-42-5	
Tetrachloroethene	<16.3	ug/L	54.4	16.3	50		12/24/19 15:38	127-18-4	
Toluene	<8.6	ug/L	250	8.6	50		12/24/19 15:38	108-88-3	
Trichloroethene	3890	ug/L	50.0	12.8	50		12/24/19 15:38	79-01-6	
Trichlorofluoromethane	<10.7	ug/L	50.0	10.7	50		12/24/19 15:38	75-69-4	
Vinyl chloride	<8.7	ug/L	50.0	8.7	50		12/24/19 15:38	75-01-4	
cis-1,2-Dichloroethene	1240	ug/L	50.0	13.6	50		12/24/19 15:38	156-59-2	
cis-1,3-Dichloropropene	<181	ug/L	605	181	50		12/24/19 15:38	10061-01-5	
m&p-Xylene	<23.3	ug/L	100	23.3	50		12/24/19 15:38	179601-23-1	
n-Butylbenzene	<35.4	ug/L	118	35.4	50		12/24/19 15:38	104-51-8	
n-Propylbenzene	<40.5	ug/L	250	40.5	50		12/24/19 15:38	103-65-1	
o-Xylene	<13.1	ug/L	50.0	13.1	50		12/24/19 15:38	95-47-6	
p-Isopropyltoluene	<40.0	ug/L	133	40.0	50		12/24/19 15:38	99-87-6	
sec-Butylbenzene	<42.4	ug/L	250	42.4	50		12/24/19 15:38	135-98-8	
tert-Butylbenzene	<15.2	ug/L	50.6	15.2	50		12/24/19 15:38	98-06-6	
trans-1,2-Dichloroethene	<54.5	ug/L	182	54.5	50		12/24/19 15:38	156-60-5	
trans-1,3-Dichloropropene	<219	ug/L	728	219	50		12/24/19 15:38	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		50		12/24/19 15:38	460-00-4	
Dibromofluoromethane (S)	94	%	70-130		50		12/24/19 15:38	1868-53-7	
Toluene-d8 (S)	95	%	70-130		50		12/24/19 15:38	2037-26-5	
300.0 IC Anions Analytical Method: EPA 300.0									
Sulfate	13.2	mg/L	10.0	2.2	5		12/27/19 12:27	14808-79-8	
5310C TOC Analytical Method: SM 5310C									
Total Organic Carbon	179	mg/L	50.0	14.9	100		12/31/19 09:23	7440-44-0	

Sample: MW-41 Lab ID: 40201206003 Collected: 12/19/19 09:57 Received: 12/21/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Ethane	<1.2	ug/L	5.6	1.2	1		12/30/19 14:02	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		12/30/19 14:02	74-85-1	
Methane	<0.66	ug/L	2.8	0.66	1		12/30/19 14:02	74-82-8	
6010 MET ICP, Dissolved Analytical Method: EPA 6010									
Iron, Dissolved	65.3J	ug/L	100	29.6	1		12/27/19 16:32	7439-89-6	
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		12/24/19 14:55	630-20-6	
1,1,1-Trichloroethane	2.6	ug/L	1.0	0.24	1		12/24/19 14:55	71-55-6	

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ANALYTICAL RESULTS

Project: 20.0155935.01 T.4 TRENT TUBE
Pace Project No.: 40201206

Sample: MW-41 **Lab ID: 40201206003** Collected: 12/19/19 09:57 Received: 12/21/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		12/24/19 14:55	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		12/24/19 14:55	79-00-5	
1,1-Dichloroethane	4.0	ug/L	1.0	0.27	1		12/24/19 14:55	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		12/24/19 14:55	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		12/24/19 14:55	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		12/24/19 14:55	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		12/24/19 14:55	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		12/24/19 14:55	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		12/24/19 14:55	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		12/24/19 14:55	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		12/24/19 14:55	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		12/24/19 14:55	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		12/24/19 14:55	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		12/24/19 14:55	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		12/24/19 14:55	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		12/24/19 14:55	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		12/24/19 14:55	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		12/24/19 14:55	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		12/24/19 14:55	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		12/24/19 14:55	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		12/24/19 14:55	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		12/24/19 14:55	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		12/24/19 14:55	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		12/24/19 14:55	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		12/24/19 14:55	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		12/24/19 14:55	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		12/24/19 14:55	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		12/24/19 14:55	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		12/24/19 14:55	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		12/24/19 14:55	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		12/24/19 14:55	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		12/24/19 14:55	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		12/24/19 14:55	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		12/24/19 14:55	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		12/24/19 14:55	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		12/24/19 14:55	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		12/24/19 14:55	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		12/24/19 14:55	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		12/24/19 14:55	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		12/24/19 14:55	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		12/24/19 14:55	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		12/24/19 14:55	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		12/24/19 14:55	100-42-5	
Tetrachloroethene	0.86J	ug/L	1.1	0.33	1		12/24/19 14:55	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		12/24/19 14:55	108-88-3	
Trichloroethene	32.3	ug/L	1.0	0.26	1		12/24/19 14:55	79-01-6	

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ANALYTICAL RESULTS

Project: 20.0155935.01 T.4 TRENT TUBE
Pace Project No.: 40201206

Sample: MW-41 **Lab ID: 40201206003** Collected: 12/19/19 09:57 Received: 12/21/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		12/24/19 14:55	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		12/24/19 14:55	75-01-4	
cis-1,2-Dichloroethene	3.9	ug/L	1.0	0.27	1		12/24/19 14:55	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		12/24/19 14:55	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		12/24/19 14:55	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		12/24/19 14:55	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		12/24/19 14:55	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		12/24/19 14:55	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		12/24/19 14:55	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		12/24/19 14:55	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		12/24/19 14:55	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		12/24/19 14:55	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		12/24/19 14:55	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		1		12/24/19 14:55	460-00-4	
Dibromofluoromethane (S)	91	%	70-130		1		12/24/19 14:55	1868-53-7	
Toluene-d8 (S)	94	%	70-130		1		12/24/19 14:55	2037-26-5	
300.0 IC Anions Analytical Method: EPA 300.0									
Sulfate	52.1	mg/L	10.0	2.2	5		12/27/19 12:42	14808-79-8	
5310C TOC Analytical Method: SM 5310C									
Total Organic Carbon	2.0	mg/L	0.50	0.15	1		12/30/19 16:12	7440-44-0	

Sample: MW-4 **Lab ID: 40201206004** Collected: 12/19/19 09:24 Received: 12/21/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Ethane	<1.2	ug/L	5.6	1.2	1		12/30/19 14:09	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		12/30/19 14:09	74-85-1	
Methane	<0.66	ug/L	2.8	0.66	1		12/30/19 14:09	74-82-8	
6010 MET ICP, Dissolved Analytical Method: EPA 6010									
Iron, Dissolved	44.9J	ug/L	100	29.6	1		12/27/19 16:34	7439-89-6	
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.54	ug/L	2.0	0.54	2		12/24/19 16:00	630-20-6	
1,1,1-Trichloroethane	2.3	ug/L	2.0	0.49	2		12/24/19 16:00	71-55-6	
1,1,2,2-Tetrachloroethane	<0.55	ug/L	2.0	0.55	2		12/24/19 16:00	79-34-5	
1,1,2-Trichloroethane	<1.1	ug/L	10.0	1.1	2		12/24/19 16:00	79-00-5	
1,1-Dichloroethane	1.8J	ug/L	2.0	0.55	2		12/24/19 16:00	75-34-3	
1,1-Dichloroethene	<0.49	ug/L	2.0	0.49	2		12/24/19 16:00	75-35-4	
1,1-Dichloropropene	<1.1	ug/L	3.6	1.1	2		12/24/19 16:00	563-58-6	

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ANALYTICAL RESULTS

Project: 20.0155935.01 T.4 TRENT TUBE
Pace Project No.: 40201206

Sample: MW-4 **Lab ID: 40201206004** Collected: 12/19/19 09:24 Received: 12/21/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,2,3-Trichlorobenzene	<1.3	ug/L	10.0	1.3	2		12/24/19 16:00	87-61-6	
1,2,3-Trichloropropane	<1.2	ug/L	10.0	1.2	2		12/24/19 16:00	96-18-4	
1,2,4-Trichlorobenzene	<1.9	ug/L	10.0	1.9	2		12/24/19 16:00	120-82-1	
1,2,4-Trimethylbenzene	<1.7	ug/L	5.6	1.7	2		12/24/19 16:00	95-63-6	
1,2-Dibromo-3-chloropropane	<3.5	ug/L	11.8	3.5	2		12/24/19 16:00	96-12-8	
1,2-Dibromoethane (EDB)	<1.7	ug/L	5.5	1.7	2		12/24/19 16:00	106-93-4	
1,2-Dichlorobenzene	<1.4	ug/L	4.7	1.4	2		12/24/19 16:00	95-50-1	
1,2-Dichloroethane	<0.56	ug/L	2.0	0.56	2		12/24/19 16:00	107-06-2	
1,2-Dichloropropane	<0.57	ug/L	2.0	0.57	2		12/24/19 16:00	78-87-5	
1,3,5-Trimethylbenzene	<1.7	ug/L	5.8	1.7	2		12/24/19 16:00	108-67-8	
1,3-Dichlorobenzene	<1.3	ug/L	4.2	1.3	2		12/24/19 16:00	541-73-1	
1,3-Dichloropropane	<1.7	ug/L	5.5	1.7	2		12/24/19 16:00	142-28-9	
1,4-Dichlorobenzene	<1.9	ug/L	6.3	1.9	2		12/24/19 16:00	106-46-7	
2,2-Dichloropropane	<4.5	ug/L	15.1	4.5	2		12/24/19 16:00	594-20-7	
2-Chlorotoluene	<1.9	ug/L	10.0	1.9	2		12/24/19 16:00	95-49-8	
4-Chlorotoluene	<1.5	ug/L	5.0	1.5	2		12/24/19 16:00	106-43-4	
Benzene	<0.49	ug/L	2.0	0.49	2		12/24/19 16:00	71-43-2	
Bromobenzene	<0.48	ug/L	2.0	0.48	2		12/24/19 16:00	108-86-1	
Bromochloromethane	<0.72	ug/L	10.0	0.72	2		12/24/19 16:00	74-97-5	
Bromodichloromethane	<0.73	ug/L	2.4	0.73	2		12/24/19 16:00	75-27-4	
Bromoform	<7.9	ug/L	26.5	7.9	2		12/24/19 16:00	75-25-2	
Bromomethane	<1.9	ug/L	10.0	1.9	2		12/24/19 16:00	74-83-9	
Carbon tetrachloride	<0.33	ug/L	2.0	0.33	2		12/24/19 16:00	56-23-5	
Chlorobenzene	<1.4	ug/L	4.7	1.4	2		12/24/19 16:00	108-90-7	
Chloroethane	<2.7	ug/L	10.0	2.7	2		12/24/19 16:00	75-00-3	
Chloroform	<2.5	ug/L	10.0	2.5	2		12/24/19 16:00	67-66-3	
Chloromethane	<4.4	ug/L	14.6	4.4	2		12/24/19 16:00	74-87-3	
Dibromochloromethane	<5.2	ug/L	17.3	5.2	2		12/24/19 16:00	124-48-1	
Dibromomethane	<1.9	ug/L	6.2	1.9	2		12/24/19 16:00	74-95-3	
Dichlorodifluoromethane	<1.0	ug/L	10.0	1.0	2		12/24/19 16:00	75-71-8	
Diisopropyl ether	<3.8	ug/L	12.6	3.8	2		12/24/19 16:00	108-20-3	
Ethylbenzene	<0.44	ug/L	2.0	0.44	2		12/24/19 16:00	100-41-4	
Hexachloro-1,3-butadiene	<2.4	ug/L	10.0	2.4	2		12/24/19 16:00	87-68-3	
Isopropylbenzene (Cumene)	<0.79	ug/L	10.0	0.79	2		12/24/19 16:00	98-82-8	
Methyl-tert-butyl ether	<2.5	ug/L	8.3	2.5	2		12/24/19 16:00	1634-04-4	
Methylene Chloride	<1.2	ug/L	10.0	1.2	2		12/24/19 16:00	75-09-2	
Naphthalene	<2.4	ug/L	10.0	2.4	2		12/24/19 16:00	91-20-3	
Styrene	<0.93	ug/L	3.1	0.93	2		12/24/19 16:00	100-42-5	
Tetrachloroethene	3.0	ug/L	2.2	0.65	2		12/24/19 16:00	127-18-4	
Toluene	<0.34	ug/L	10.0	0.34	2		12/24/19 16:00	108-88-3	
Trichloroethene	117	ug/L	2.0	0.51	2		12/24/19 16:00	79-01-6	
Trichlorofluoromethane	<0.43	ug/L	2.0	0.43	2		12/24/19 16:00	75-69-4	
Vinyl chloride	<0.35	ug/L	2.0	0.35	2		12/24/19 16:00	75-01-4	
cis-1,2-Dichloroethene	16.9	ug/L	2.0	0.54	2		12/24/19 16:00	156-59-2	
cis-1,3-Dichloropropene	<7.3	ug/L	24.2	7.3	2		12/24/19 16:00	10061-01-5	
m&p-Xylene	<0.93	ug/L	4.0	0.93	2		12/24/19 16:00	179601-23-1	

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ANALYTICAL RESULTS

Project: 20.0155935.01 T.4 TRENT TUBE
Pace Project No.: 40201206

Sample: MW-4 **Lab ID: 40201206004** Collected: 12/19/19 09:24 Received: 12/21/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
n-Butylbenzene	<1.4	ug/L	4.7	1.4	2		12/24/19 16:00	104-51-8	
n-Propylbenzene	<1.6	ug/L	10.0	1.6	2		12/24/19 16:00	103-65-1	
o-Xylene	<0.52	ug/L	2.0	0.52	2		12/24/19 16:00	95-47-6	
p-Isopropyltoluene	<1.6	ug/L	5.3	1.6	2		12/24/19 16:00	99-87-6	
sec-Butylbenzene	<1.7	ug/L	10.0	1.7	2		12/24/19 16:00	135-98-8	
tert-Butylbenzene	<0.61	ug/L	2.0	0.61	2		12/24/19 16:00	98-06-6	
trans-1,2-Dichloroethene	<2.2	ug/L	7.3	2.2	2		12/24/19 16:00	156-60-5	
trans-1,3-Dichloropropene	<8.7	ug/L	29.1	8.7	2		12/24/19 16:00	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	90	%	70-130		2		12/24/19 16:00	460-00-4	
Dibromofluoromethane (S)	93	%	70-130		2		12/24/19 16:00	1868-53-7	
Toluene-d8 (S)	93	%	70-130		2		12/24/19 16:00	2037-26-5	
300.0 IC Anions Analytical Method: EPA 300.0									
Sulfate	34.5	mg/L	10.0	2.2	5		12/27/19 12:56	14808-79-8	
5310C TOC Analytical Method: SM 5310C									
Total Organic Carbon	3.8	mg/L	0.50	0.15	1		12/30/19 16:33	7440-44-0	

Sample: MW38 **Lab ID: 40201206005** Collected: 12/19/19 11:07 Received: 12/21/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Ethane	<1.2	ug/L	5.6	1.2	1		12/30/19 14:16	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		12/30/19 14:16	74-85-1	
Methane	<0.66	ug/L	2.8	0.66	1		12/30/19 14:16	74-82-8	
6010 MET ICP, Dissolved Analytical Method: EPA 6010									
Iron, Dissolved	<29.6	ug/L	100	29.6	1		12/27/19 16:37	7439-89-6	
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		12/23/19 15:08	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		12/23/19 15:08	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		12/23/19 15:08	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		12/23/19 15:08	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		12/23/19 15:08	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		12/23/19 15:08	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		12/23/19 15:08	563-58-6	M1
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		12/23/19 15:08	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		12/23/19 15:08	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		12/23/19 15:08	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		12/23/19 15:08	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		12/23/19 15:08	96-12-8	

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ANALYTICAL RESULTS

Project: 20.0155935.01 T.4 TRENT TUBE

Pace Project No.: 40201206

Sample: MW38 **Lab ID: 40201206005** Collected: 12/19/19 11:07 Received: 12/21/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		12/23/19 15:08	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		12/23/19 15:08	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		12/23/19 15:08	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		12/23/19 15:08	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		12/23/19 15:08	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		12/23/19 15:08	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		12/23/19 15:08	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		12/23/19 15:08	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		12/23/19 15:08	594-20-7	M1
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		12/23/19 15:08	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		12/23/19 15:08	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		12/23/19 15:08	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		12/23/19 15:08	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		12/23/19 15:08	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		12/23/19 15:08	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		12/23/19 15:08	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		12/23/19 15:08	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		12/23/19 15:08	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		12/23/19 15:08	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		12/23/19 15:08	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		12/23/19 15:08	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		12/23/19 15:08	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		12/23/19 15:08	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		12/23/19 15:08	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		12/23/19 15:08	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		12/23/19 15:08	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		12/23/19 15:08	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		12/23/19 15:08	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		12/23/19 15:08	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		12/23/19 15:08	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		12/23/19 15:08	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		12/23/19 15:08	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		12/23/19 15:08	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		12/23/19 15:08	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		12/23/19 15:08	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		12/23/19 15:08	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		12/23/19 15:08	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		12/23/19 15:08	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		12/23/19 15:08	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		12/23/19 15:08	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		12/23/19 15:08	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		12/23/19 15:08	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		12/23/19 15:08	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		12/23/19 15:08	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		12/23/19 15:08	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		12/23/19 15:08	135-98-8	

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ANALYTICAL RESULTS

Project: 20.0155935.01 T.4 TRENT TUBE
Pace Project No.: 40201206

Sample: MW38 Lab ID: 40201206005 Collected: 12/19/19 11:07 Received: 12/21/19 08:25 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		12/23/19 15:08	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		12/23/19 15:08	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		12/23/19 15:08	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		12/23/19 15:08	460-00-4	
Dibromofluoromethane (S)	119	%	70-130		1		12/23/19 15:08	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		12/23/19 15:08	2037-26-5	
300.0 IC Anions Analytical Method: EPA 300.0									
Sulfate	101	mg/L	10.0	2.2	5		12/27/19 13:36	14808-79-8	
5310C TOC Analytical Method: SM 5310C									
Total Organic Carbon	1.4	mg/L	0.50	0.15	1		12/30/19 16:54	7440-44-0	

Sample: MW-2 Lab ID: 40201206006 Collected: 12/19/19 12:52 Received: 12/21/19 08:25 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Ethane	<1.2	ug/L	5.6	1.2	1		12/30/19 14:23	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		12/30/19 14:23	74-85-1	
Methane	<0.66	ug/L	2.8	0.66	1		12/30/19 14:23	74-82-8	
6010 MET ICP, Dissolved Analytical Method: EPA 6010									
Iron, Dissolved	286	ug/L	100	29.6	1		12/27/19 16:39	7439-89-6	
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<5.4	ug/L	20.0	5.4	20		12/26/19 14:15	630-20-6	
1,1,1-Trichloroethane	<4.9	ug/L	20.0	4.9	20		12/26/19 14:15	71-55-6	
1,1,2,2-Tetrachloroethane	<5.5	ug/L	20.0	5.5	20		12/26/19 14:15	79-34-5	
1,1,2-Trichloroethane	<11.0	ug/L	100	11.0	20		12/26/19 14:15	79-00-5	
1,1-Dichloroethane	<5.5	ug/L	20.0	5.5	20		12/26/19 14:15	75-34-3	
1,1-Dichloroethene	<4.9	ug/L	20.0	4.9	20		12/26/19 14:15	75-35-4	
1,1-Dichloropropene	<10.8	ug/L	36.0	10.8	20		12/26/19 14:15	563-58-6	
1,2,3-Trichlorobenzene	<12.5	ug/L	100	12.5	20		12/26/19 14:15	87-61-6	
1,2,3-Trichloropropane	<11.8	ug/L	100	11.8	20		12/26/19 14:15	96-18-4	
1,2,4-Trichlorobenzene	<19.0	ug/L	100	19.0	20		12/26/19 14:15	120-82-1	
1,2,4-Trimethylbenzene	<16.8	ug/L	56.0	16.8	20		12/26/19 14:15	95-63-6	
1,2-Dibromo-3-chloropropane	<35.3	ug/L	118	35.3	20		12/26/19 14:15	96-12-8	
1,2-Dibromoethane (EDB)	<16.6	ug/L	55.3	16.6	20		12/26/19 14:15	106-93-4	
1,2-Dichlorobenzene	<14.1	ug/L	47.0	14.1	20		12/26/19 14:15	95-50-1	
1,2-Dichloroethane	<5.6	ug/L	20.0	5.6	20		12/26/19 14:15	107-06-2	
1,2-Dichloropropane	<5.7	ug/L	20.0	5.7	20		12/26/19 14:15	78-87-5	
1,3,5-Trimethylbenzene	<17.5	ug/L	58.2	17.5	20		12/26/19 14:15	108-67-8	

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ANALYTICAL RESULTS

Project: 20.0155935.01 T.4 TRENT TUBE

Pace Project No.: 40201206

Sample: MW-2 **Lab ID: 40201206006** Collected: 12/19/19 12:52 Received: 12/21/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,3-Dichlorobenzene	<12.6	ug/L	41.9	12.6	20		12/26/19 14:15	541-73-1	
1,3-Dichloropropane	<16.5	ug/L	55.1	16.5	20		12/26/19 14:15	142-28-9	
1,4-Dichlorobenzene	<18.9	ug/L	62.9	18.9	20		12/26/19 14:15	106-46-7	
2,2-Dichloropropane	<45.3	ug/L	151	45.3	20		12/26/19 14:15	594-20-7	
2-Chlorotoluene	<18.5	ug/L	100	18.5	20		12/26/19 14:15	95-49-8	
4-Chlorotoluene	<15.1	ug/L	50.4	15.1	20		12/26/19 14:15	106-43-4	
Benzene	<4.9	ug/L	20.0	4.9	20		12/26/19 14:15	71-43-2	
Bromobenzene	<4.8	ug/L	20.0	4.8	20		12/26/19 14:15	108-86-1	
Bromochloromethane	<7.2	ug/L	100	7.2	20		12/26/19 14:15	74-97-5	
Bromodichloromethane	<7.3	ug/L	24.2	7.3	20		12/26/19 14:15	75-27-4	
Bromoform	<79.4	ug/L	265	79.4	20		12/26/19 14:15	75-25-2	
Bromomethane	<19.4	ug/L	100	19.4	20		12/26/19 14:15	74-83-9	
Carbon tetrachloride	<3.3	ug/L	20.0	3.3	20		12/26/19 14:15	56-23-5	
Chlorobenzene	<14.2	ug/L	47.4	14.2	20		12/26/19 14:15	108-90-7	
Chloroethane	<26.8	ug/L	100	26.8	20		12/26/19 14:15	75-00-3	
Chloroform	<25.5	ug/L	100	25.5	20		12/26/19 14:15	67-66-3	
Chloromethane	<43.8	ug/L	146	43.8	20		12/26/19 14:15	74-87-3	
Dibromochloromethane	<52.0	ug/L	173	52.0	20		12/26/19 14:15	124-48-1	
Dibromomethane	<18.7	ug/L	62.5	18.7	20		12/26/19 14:15	74-95-3	
Dichlorodifluoromethane	<10	ug/L	100	10	20		12/26/19 14:15	75-71-8	
Diisopropyl ether	<37.8	ug/L	126	37.8	20		12/26/19 14:15	108-20-3	
Ethylbenzene	<4.4	ug/L	20.0	4.4	20		12/26/19 14:15	100-41-4	
Hexachloro-1,3-butadiene	<23.6	ug/L	100	23.6	20		12/26/19 14:15	87-68-3	
Isopropylbenzene (Cumene)	<7.9	ug/L	100	7.9	20		12/26/19 14:15	98-82-8	
Methyl-tert-butyl ether	<24.9	ug/L	83.1	24.9	20		12/26/19 14:15	1634-04-4	
Methylene Chloride	<11.6	ug/L	100	11.6	20		12/26/19 14:15	75-09-2	
Naphthalene	<23.5	ug/L	100	23.5	20		12/26/19 14:15	91-20-3	
Styrene	<9.3	ug/L	31.0	9.3	20		12/26/19 14:15	100-42-5	
Tetrachloroethene	<6.5	ug/L	21.8	6.5	20		12/26/19 14:15	127-18-4	
Toluene	<3.4	ug/L	100	3.4	20		12/26/19 14:15	108-88-3	
Trichloroethene	23.7	ug/L	20.0	5.1	20		12/26/19 14:15	79-01-6	
Trichlorofluoromethane	<4.3	ug/L	20.0	4.3	20		12/26/19 14:15	75-69-4	
Vinyl chloride	48.7	ug/L	20.0	3.5	20		12/26/19 14:15	75-01-4	
cis-1,2-Dichloroethene	1850	ug/L	20.0	5.4	20		12/26/19 14:15	156-59-2	
cis-1,3-Dichloropropene	<72.6	ug/L	242	72.6	20		12/26/19 14:15	10061-01-5	
m&p-Xylene	<9.3	ug/L	40.0	9.3	20		12/26/19 14:15	179601-23-1	
n-Butylbenzene	<14.2	ug/L	47.2	14.2	20		12/26/19 14:15	104-51-8	
n-Propylbenzene	<16.2	ug/L	100	16.2	20		12/26/19 14:15	103-65-1	
o-Xylene	<5.2	ug/L	20.0	5.2	20		12/26/19 14:15	95-47-6	
p-Isopropyltoluene	<16.0	ug/L	53.3	16.0	20		12/26/19 14:15	99-87-6	
sec-Butylbenzene	<17.0	ug/L	100	17.0	20		12/26/19 14:15	135-98-8	
tert-Butylbenzene	<6.1	ug/L	20.3	6.1	20		12/26/19 14:15	98-06-6	
trans-1,2-Dichloroethene	<21.8	ug/L	72.7	21.8	20		12/26/19 14:15	156-60-5	
trans-1,3-Dichloropropene	<87.4	ug/L	291	87.4	20		12/26/19 14:15	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	92	%	70-130		20		12/26/19 14:15	460-00-4	

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ANALYTICAL RESULTS

Project: 20.0155935.01 T.4 TRENT TUBE
Pace Project No.: 40201206

Sample: MW-2 **Lab ID: 40201206006** Collected: 12/19/19 12:52 Received: 12/21/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Surrogates									
Dibromofluoromethane (S)	93	%	70-130		20		12/26/19 14:15	1868-53-7	
Toluene-d8 (S)	95	%	70-130		20		12/26/19 14:15	2037-26-5	
300.0 IC Anions Analytical Method: EPA 300.0									
Sulfate	28.4	mg/L	10.0	2.2	5		12/27/19 14:33	14808-79-8	
5310C TOC Analytical Method: SM 5310C									
Total Organic Carbon	321	mg/L	150	44.6	300		12/31/19 09:44	7440-44-0	

Sample: MW-1R **Lab ID: 40201206007** Collected: 12/19/19 12:22 Received: 12/21/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Ethane	<1.2	ug/L	5.6	1.2	1		12/30/19 14:30	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		12/30/19 14:30	74-85-1	
Methane	<0.66	ug/L	2.8	0.66	1		12/30/19 14:30	74-82-8	
6010 MET ICP, Dissolved Analytical Method: EPA 6010									
Iron, Dissolved	<29.6	ug/L	100	29.6	1		12/27/19 16:46	7439-89-6	
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		12/26/19 16:02	630-20-6	
1,1,1-Trichloroethane	1.2	ug/L	1.0	0.24	1		12/26/19 16:02	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		12/26/19 16:02	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		12/26/19 16:02	79-00-5	
1,1-Dichloroethane	0.94J	ug/L	1.0	0.27	1		12/26/19 16:02	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		12/26/19 16:02	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		12/26/19 16:02	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		12/26/19 16:02	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		12/26/19 16:02	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		12/26/19 16:02	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		12/26/19 16:02	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		12/26/19 16:02	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		12/26/19 16:02	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		12/26/19 16:02	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		12/26/19 16:02	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		12/26/19 16:02	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		12/26/19 16:02	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		12/26/19 16:02	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		12/26/19 16:02	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		12/26/19 16:02	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		12/26/19 16:02	594-20-7	

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ANALYTICAL RESULTS

Project: 20.0155935.01 T.4 TRENT TUBE

Pace Project No.: 40201206

Sample: MW-1R **Lab ID: 40201206007** Collected: 12/19/19 12:22 Received: 12/21/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		12/26/19 16:02	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		12/26/19 16:02	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		12/26/19 16:02	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		12/26/19 16:02	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		12/26/19 16:02	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		12/26/19 16:02	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		12/26/19 16:02	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		12/26/19 16:02	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		12/26/19 16:02	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		12/26/19 16:02	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		12/26/19 16:02	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		12/26/19 16:02	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		12/26/19 16:02	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		12/26/19 16:02	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		12/26/19 16:02	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		12/26/19 16:02	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		12/26/19 16:02	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		12/26/19 16:02	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		12/26/19 16:02	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		12/26/19 16:02	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		12/26/19 16:02	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		12/26/19 16:02	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		12/26/19 16:02	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		12/26/19 16:02	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		12/26/19 16:02	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		12/26/19 16:02	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		12/26/19 16:02	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		12/26/19 16:02	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		12/26/19 16:02	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		12/26/19 16:02	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		12/26/19 16:02	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		12/26/19 16:02	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		12/26/19 16:02	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		12/26/19 16:02	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		12/26/19 16:02	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		12/26/19 16:02	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		12/26/19 16:02	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		12/26/19 16:02	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		12/26/19 16:02	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		12/26/19 16:02	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	89	%	70-130		1		12/26/19 16:02	460-00-4	
Dibromofluoromethane (S)	93	%	70-130		1		12/26/19 16:02	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		12/26/19 16:02	2037-26-5	

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ANALYTICAL RESULTS

Project: 20.0155935.01 T.4 TRENT TUBE

Pace Project No.: 40201206

Sample: MW-1R									
Lab ID: 40201206007									
Collected: 12/19/19 12:22									
Received: 12/21/19 08:25									
Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions									
Analytical Method: EPA 300.0									
Sulfate	285	mg/L	40.0	8.9	20		12/27/19 14:48	14808-79-8	
5310C TOC									
Analytical Method: SM 5310C									
Total Organic Carbon	3.7	mg/L	1.0	0.30	2		12/30/19 17:35	7440-44-0	

Sample: MW-18R									
Lab ID: 40201206008									
Collected: 12/19/19 11:40									
Received: 12/21/19 08:25									
Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV									
Analytical Method: EPA 8015B Modified									
Ethane	1.4J	ug/L	5.6	1.2	1		12/30/19 14:37	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		12/30/19 14:37	74-85-1	
Methane	422	ug/L	28.0	6.6	10		12/30/19 15:11	74-82-8	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010									
Iron, Dissolved	<29.6	ug/L	100	29.6	1		12/27/19 16:48	7439-89-6	
8260 MSV									
Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<2.7	ug/L	10.0	2.7	10		12/26/19 14:36	630-20-6	
1,1,1-Trichloroethane	<2.4	ug/L	10.0	2.4	10		12/26/19 14:36	71-55-6	
1,1,2,2-Tetrachloroethane	<2.8	ug/L	10.0	2.8	10		12/26/19 14:36	79-34-5	
1,1,2-Trichloroethane	<5.5	ug/L	50.0	5.5	10		12/26/19 14:36	79-00-5	
1,1-Dichloroethane	<2.7	ug/L	10.0	2.7	10		12/26/19 14:36	75-34-3	
1,1-Dichloroethene	5.4J	ug/L	10.0	2.4	10		12/26/19 14:36	75-35-4	
1,1-Dichloropropene	<5.4	ug/L	18.0	5.4	10		12/26/19 14:36	563-58-6	
1,2,3-Trichlorobenzene	<6.3	ug/L	50.0	6.3	10		12/26/19 14:36	87-61-6	
1,2,3-Trichloropropane	<5.9	ug/L	50.0	5.9	10		12/26/19 14:36	96-18-4	
1,2,4-Trichlorobenzene	<9.5	ug/L	50.0	9.5	10		12/26/19 14:36	120-82-1	
1,2,4-Trimethylbenzene	<8.4	ug/L	28.0	8.4	10		12/26/19 14:36	95-63-6	
1,2-Dibromo-3-chloropropane	<17.6	ug/L	58.8	17.6	10		12/26/19 14:36	96-12-8	
1,2-Dibromoethane (EDB)	<8.3	ug/L	27.6	8.3	10		12/26/19 14:36	106-93-4	
1,2-Dichlorobenzene	<7.1	ug/L	23.5	7.1	10		12/26/19 14:36	95-50-1	
1,2-Dichloroethane	<2.8	ug/L	10.0	2.8	10		12/26/19 14:36	107-06-2	
1,2-Dichloropropane	<2.8	ug/L	10.0	2.8	10		12/26/19 14:36	78-87-5	
1,3,5-Trimethylbenzene	<8.7	ug/L	29.1	8.7	10		12/26/19 14:36	108-67-8	
1,3-Dichlorobenzene	<6.3	ug/L	20.9	6.3	10		12/26/19 14:36	541-73-1	
1,3-Dichloropropane	<8.3	ug/L	27.5	8.3	10		12/26/19 14:36	142-28-9	
1,4-Dichlorobenzene	<9.4	ug/L	31.5	9.4	10		12/26/19 14:36	106-46-7	
2,2-Dichloropropane	<22.7	ug/L	75.5	22.7	10		12/26/19 14:36	594-20-7	
2-Chlorotoluene	<9.3	ug/L	50.0	9.3	10		12/26/19 14:36	95-49-8	
4-Chlorotoluene	<7.6	ug/L	25.2	7.6	10		12/26/19 14:36	106-43-4	
Benzene	<2.5	ug/L	10.0	2.5	10		12/26/19 14:36	71-43-2	
Bromobenzene	<2.4	ug/L	10.0	2.4	10		12/26/19 14:36	108-86-1	
Bromochloromethane	<3.6	ug/L	50.0	3.6	10		12/26/19 14:36	74-97-5	

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ANALYTICAL RESULTS

Project: 20.0155935.01 T.4 TRENT TUBE
Pace Project No.: 40201206

Sample: MW-18R **Lab ID: 40201206008** Collected: 12/19/19 11:40 Received: 12/21/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Bromodichloromethane	<3.6	ug/L	12.1	3.6	10		12/26/19 14:36	75-27-4	
Bromoform	<39.7	ug/L	132	39.7	10		12/26/19 14:36	75-25-2	
Bromomethane	<9.7	ug/L	50.0	9.7	10		12/26/19 14:36	74-83-9	
Carbon tetrachloride	<1.7	ug/L	10.0	1.7	10		12/26/19 14:36	56-23-5	
Chlorobenzene	<7.1	ug/L	23.7	7.1	10		12/26/19 14:36	108-90-7	
Chloroethane	<13.4	ug/L	50.0	13.4	10		12/26/19 14:36	75-00-3	
Chloroform	<12.7	ug/L	50.0	12.7	10		12/26/19 14:36	67-66-3	
Chloromethane	<21.9	ug/L	73.0	21.9	10		12/26/19 14:36	74-87-3	
Dibromochloromethane	<26.0	ug/L	86.7	26.0	10		12/26/19 14:36	124-48-1	
Dibromomethane	<9.4	ug/L	31.2	9.4	10		12/26/19 14:36	74-95-3	
Dichlorodifluoromethane	<5.0	ug/L	50.0	5.0	10		12/26/19 14:36	75-71-8	
Diisopropyl ether	<18.9	ug/L	62.9	18.9	10		12/26/19 14:36	108-20-3	
Ethylbenzene	<2.2	ug/L	10.0	2.2	10		12/26/19 14:36	100-41-4	
Hexachloro-1,3-butadiene	<11.8	ug/L	50.0	11.8	10		12/26/19 14:36	87-68-3	
Isopropylbenzene (Cumene)	<3.9	ug/L	50.0	3.9	10		12/26/19 14:36	98-82-8	
Methyl-tert-butyl ether	<12.5	ug/L	41.5	12.5	10		12/26/19 14:36	1634-04-4	
Methylene Chloride	<5.8	ug/L	50.0	5.8	10		12/26/19 14:36	75-09-2	
Naphthalene	<11.8	ug/L	50.0	11.8	10		12/26/19 14:36	91-20-3	
Styrene	<4.7	ug/L	15.5	4.7	10		12/26/19 14:36	100-42-5	
Tetrachloroethene	<3.3	ug/L	10.9	3.3	10		12/26/19 14:36	127-18-4	
Toluene	<1.7	ug/L	50.0	1.7	10		12/26/19 14:36	108-88-3	
Trichloroethene	2270	ug/L	10.0	2.6	10		12/26/19 14:36	79-01-6	
Trichlorofluoromethane	<2.1	ug/L	10.0	2.1	10		12/26/19 14:36	75-69-4	
Vinyl chloride	43.0	ug/L	10.0	1.7	10		12/26/19 14:36	75-01-4	
cis-1,2-Dichloroethene	792	ug/L	10.0	2.7	10		12/26/19 14:36	156-59-2	
cis-1,3-Dichloropropene	<36.3	ug/L	121	36.3	10		12/26/19 14:36	10061-01-5	
m&p-Xylene	<4.7	ug/L	20.0	4.7	10		12/26/19 14:36	179601-23-1	
n-Butylbenzene	<7.1	ug/L	23.6	7.1	10		12/26/19 14:36	104-51-8	
n-Propylbenzene	<8.1	ug/L	50.0	8.1	10		12/26/19 14:36	103-65-1	
o-Xylene	<2.6	ug/L	10.0	2.6	10		12/26/19 14:36	95-47-6	
p-Isopropyltoluene	<8.0	ug/L	26.7	8.0	10		12/26/19 14:36	99-87-6	
sec-Butylbenzene	<8.5	ug/L	50.0	8.5	10		12/26/19 14:36	135-98-8	
tert-Butylbenzene	<3.0	ug/L	10.1	3.0	10		12/26/19 14:36	98-06-6	
trans-1,2-Dichloroethene	21.7J	ug/L	36.4	10.9	10		12/26/19 14:36	156-60-5	
trans-1,3-Dichloropropene	<43.7	ug/L	146	43.7	10		12/26/19 14:36	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		10		12/26/19 14:36	460-00-4	
Dibromofluoromethane (S)	93	%	70-130		10		12/26/19 14:36	1868-53-7	
Toluene-d8 (S)	94	%	70-130		10		12/26/19 14:36	2037-26-5	
300.0 IC Anions Analytical Method: EPA 300.0									
Sulfate	73.0	mg/L	10.0	2.2	5		12/27/19 15:02	14808-79-8	
5310C TOC Analytical Method: SM 5310C									
Total Organic Carbon	2.0	mg/L	0.50	0.15	1		12/30/19 17:56	7440-44-0	

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ANALYTICAL RESULTS

Project: 20.0155935.01 T.4 TRENT TUBE

Pace Project No.: 40201206

Sample: DUP-1 **Lab ID: 40201206009** Collected: 12/19/19 00:00 Received: 12/21/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV		Analytical Method: EPA 8015B Modified							
Ethane	1.4J	ug/L	5.6	1.2	1		12/30/19 14:44	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		12/30/19 14:44	74-85-1	
Methane	286	ug/L	28.0	6.6	10		12/30/19 15:18	74-82-8	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	<29.6	ug/L	100	29.6	1		12/27/19 16:51	7439-89-6	
8260 MSV		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<5.4	ug/L	20.0	5.4	20		12/26/19 14:58	630-20-6	
1,1,1-Trichloroethane	<4.9	ug/L	20.0	4.9	20		12/26/19 14:58	71-55-6	
1,1,2,2-Tetrachloroethane	<5.5	ug/L	20.0	5.5	20		12/26/19 14:58	79-34-5	
1,1,2-Trichloroethane	<11.0	ug/L	100	11.0	20		12/26/19 14:58	79-00-5	
1,1-Dichloroethane	<5.5	ug/L	20.0	5.5	20		12/26/19 14:58	75-34-3	
1,1-Dichloroethene	<4.9	ug/L	20.0	4.9	20		12/26/19 14:58	75-35-4	
1,1-Dichloropropene	<10.8	ug/L	36.0	10.8	20		12/26/19 14:58	563-58-6	
1,2,3-Trichlorobenzene	<12.5	ug/L	100	12.5	20		12/26/19 14:58	87-61-6	
1,2,3-Trichloropropane	<11.8	ug/L	100	11.8	20		12/26/19 14:58	96-18-4	
1,2,4-Trichlorobenzene	<19.0	ug/L	100	19.0	20		12/26/19 14:58	120-82-1	
1,2,4-Trimethylbenzene	<16.8	ug/L	56.0	16.8	20		12/26/19 14:58	95-63-6	
1,2-Dibromo-3-chloropropane	<35.3	ug/L	118	35.3	20		12/26/19 14:58	96-12-8	
1,2-Dibromoethane (EDB)	<16.6	ug/L	55.3	16.6	20		12/26/19 14:58	106-93-4	
1,2-Dichlorobenzene	<14.1	ug/L	47.0	14.1	20		12/26/19 14:58	95-50-1	
1,2-Dichloroethane	<5.6	ug/L	20.0	5.6	20		12/26/19 14:58	107-06-2	
1,2-Dichloropropane	<5.7	ug/L	20.0	5.7	20		12/26/19 14:58	78-87-5	
1,3,5-Trimethylbenzene	<17.5	ug/L	58.2	17.5	20		12/26/19 14:58	108-67-8	
1,3-Dichlorobenzene	<12.6	ug/L	41.9	12.6	20		12/26/19 14:58	541-73-1	
1,3-Dichloropropane	<16.5	ug/L	55.1	16.5	20		12/26/19 14:58	142-28-9	
1,4-Dichlorobenzene	<18.9	ug/L	62.9	18.9	20		12/26/19 14:58	106-46-7	
2,2-Dichloropropane	<45.3	ug/L	151	45.3	20		12/26/19 14:58	594-20-7	
2-Chlorotoluene	<18.5	ug/L	100	18.5	20		12/26/19 14:58	95-49-8	
4-Chlorotoluene	<15.1	ug/L	50.4	15.1	20		12/26/19 14:58	106-43-4	
Benzene	<4.9	ug/L	20.0	4.9	20		12/26/19 14:58	71-43-2	
Bromobenzene	<4.8	ug/L	20.0	4.8	20		12/26/19 14:58	108-86-1	
Bromochloromethane	<7.2	ug/L	100	7.2	20		12/26/19 14:58	74-97-5	
Bromodichloromethane	<7.3	ug/L	24.2	7.3	20		12/26/19 14:58	75-27-4	
Bromoform	<79.4	ug/L	265	79.4	20		12/26/19 14:58	75-25-2	
Bromomethane	<19.4	ug/L	100	19.4	20		12/26/19 14:58	74-83-9	
Carbon tetrachloride	<3.3	ug/L	20.0	3.3	20		12/26/19 14:58	56-23-5	
Chlorobenzene	<14.2	ug/L	47.4	14.2	20		12/26/19 14:58	108-90-7	
Chloroethane	<26.8	ug/L	100	26.8	20		12/26/19 14:58	75-00-3	
Chloroform	<25.5	ug/L	100	25.5	20		12/26/19 14:58	67-66-3	
Chloromethane	<43.8	ug/L	146	43.8	20		12/26/19 14:58	74-87-3	
Dibromochloromethane	<52.0	ug/L	173	52.0	20		12/26/19 14:58	124-48-1	
Dibromomethane	<18.7	ug/L	62.5	18.7	20		12/26/19 14:58	74-95-3	
Dichlorodifluoromethane	<10	ug/L	100	10	20		12/26/19 14:58	75-71-8	
Diisopropyl ether	<37.8	ug/L	126	37.8	20		12/26/19 14:58	108-20-3	

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ANALYTICAL RESULTS

Project: 20.0155935.01 T.4 TRENT TUBE

Pace Project No.: 40201206

Sample: DUP-1 **Lab ID: 40201206009** Collected: 12/19/19 00:00 Received: 12/21/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Ethylbenzene	<4.4	ug/L	20.0	4.4	20		12/26/19 14:58	100-41-4	
Hexachloro-1,3-butadiene	<23.6	ug/L	100	23.6	20		12/26/19 14:58	87-68-3	
Isopropylbenzene (Cumene)	<7.9	ug/L	100	7.9	20		12/26/19 14:58	98-82-8	
Methyl-tert-butyl ether	<24.9	ug/L	83.1	24.9	20		12/26/19 14:58	1634-04-4	
Methylene Chloride	<11.6	ug/L	100	11.6	20		12/26/19 14:58	75-09-2	
Naphthalene	<23.5	ug/L	100	23.5	20		12/26/19 14:58	91-20-3	
Styrene	<9.3	ug/L	31.0	9.3	20		12/26/19 14:58	100-42-5	
Tetrachloroethene	<6.5	ug/L	21.8	6.5	20		12/26/19 14:58	127-18-4	
Toluene	<3.4	ug/L	100	3.4	20		12/26/19 14:58	108-88-3	
Trichloroethene	1970	ug/L	20.0	5.1	20		12/26/19 14:58	79-01-6	
Trichlorofluoromethane	<4.3	ug/L	20.0	4.3	20		12/26/19 14:58	75-69-4	
Vinyl chloride	30.7	ug/L	20.0	3.5	20		12/26/19 14:58	75-01-4	
cis-1,2-Dichloroethene	655	ug/L	20.0	5.4	20		12/26/19 14:58	156-59-2	
cis-1,3-Dichloropropene	<72.6	ug/L	242	72.6	20		12/26/19 14:58	10061-01-5	
m&p-Xylene	<9.3	ug/L	40.0	9.3	20		12/26/19 14:58	179601-23-1	
n-Butylbenzene	<14.2	ug/L	47.2	14.2	20		12/26/19 14:58	104-51-8	
n-Propylbenzene	<16.2	ug/L	100	16.2	20		12/26/19 14:58	103-65-1	
o-Xylene	<5.2	ug/L	20.0	5.2	20		12/26/19 14:58	95-47-6	
p-Isopropyltoluene	<16.0	ug/L	53.3	16.0	20		12/26/19 14:58	99-87-6	
sec-Butylbenzene	<17.0	ug/L	100	17.0	20		12/26/19 14:58	135-98-8	
tert-Butylbenzene	<6.1	ug/L	20.3	6.1	20		12/26/19 14:58	98-06-6	
trans-1,2-Dichloroethene	23.6J	ug/L	72.7	21.8	20		12/26/19 14:58	156-60-5	
trans-1,3-Dichloropropene	<87.4	ug/L	291	87.4	20		12/26/19 14:58	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	91	%	70-130		20		12/26/19 14:58	460-00-4	
Dibromofluoromethane (S)	93	%	70-130		20		12/26/19 14:58	1868-53-7	
Toluene-d8 (S)	94	%	70-130		20		12/26/19 14:58	2037-26-5	

300.0 IC Anions Analytical Method: EPA 300.0									
Sulfate	70.0	mg/L	10.0	2.2	5		12/27/19 15:16	14808-79-8	

5310C TOC Analytical Method: SM 5310C									
Total Organic Carbon	1.9	mg/L	0.50	0.15	1		12/30/19 18:17	7440-44-0	

Sample: TRIP **Lab ID: 40201206010** Collected: 12/19/19 00:00 Received: 12/21/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		12/23/19 17:18	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		12/23/19 17:18	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		12/23/19 17:18	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		12/23/19 17:18	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		12/23/19 17:18	75-34-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 T.4 TRENT TUBE

Pace Project No.: 40201206

Sample: TRIP **Lab ID: 40201206010** Collected: 12/19/19 00:00 Received: 12/21/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		12/23/19 17:18	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		12/23/19 17:18	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		12/23/19 17:18	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		12/23/19 17:18	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		12/23/19 17:18	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		12/23/19 17:18	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		12/23/19 17:18	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		12/23/19 17:18	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		12/23/19 17:18	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		12/23/19 17:18	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		12/23/19 17:18	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		12/23/19 17:18	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		12/23/19 17:18	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		12/23/19 17:18	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		12/23/19 17:18	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		12/23/19 17:18	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		12/23/19 17:18	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		12/23/19 17:18	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		12/23/19 17:18	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		12/23/19 17:18	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		12/23/19 17:18	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		12/23/19 17:18	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		12/23/19 17:18	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		12/23/19 17:18	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		12/23/19 17:18	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		12/23/19 17:18	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		12/23/19 17:18	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		12/23/19 17:18	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		12/23/19 17:18	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		12/23/19 17:18	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		12/23/19 17:18	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		12/23/19 17:18	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		12/23/19 17:18	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		12/23/19 17:18	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		12/23/19 17:18	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		12/23/19 17:18	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		12/23/19 17:18	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		12/23/19 17:18	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		12/23/19 17:18	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		12/23/19 17:18	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		12/23/19 17:18	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		12/23/19 17:18	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		12/23/19 17:18	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		12/23/19 17:18	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		12/23/19 17:18	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		12/23/19 17:18	156-59-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 T.4 TRENT TUBE

Pace Project No.: 40201206

Sample: TRIP **Lab ID: 40201206010** Collected: 12/19/19 00:00 Received: 12/21/19 08:25 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		12/23/19 17:18	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		12/23/19 17:18	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		12/23/19 17:18	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		12/23/19 17:18	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		12/23/19 17:18	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		12/23/19 17:18	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		12/23/19 17:18	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		12/23/19 17:18	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		12/23/19 17:18	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		12/23/19 17:18	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	88	%	70-130		1		12/23/19 17:18	460-00-4	
Dibromofluoromethane (S)	111	%	70-130		1		12/23/19 17:18	1868-53-7	
Toluene-d8 (S)	93	%	70-130		1		12/23/19 17:18	2037-26-5	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0155935.01 T.4 TRENT TUBE
Pace Project No.: 40201206

QC Batch: 344541 Analysis Method: EPA 8015B Modified
QC Batch Method: EPA 8015B Modified Analysis Description: Methane, Ethane, Ethene GCV
Associated Lab Samples: 40201206001, 40201206002, 40201206003, 40201206004, 40201206005, 40201206006, 40201206007, 40201206008, 40201206009

METHOD BLANK: 1999374 Matrix: Water
Associated Lab Samples: 40201206001, 40201206002, 40201206003, 40201206004, 40201206005, 40201206006, 40201206007, 40201206008, 40201206009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	<1.2	5.6	12/30/19 13:18	
Ethene	ug/L	<1.2	5.0	12/30/19 13:18	
Methane	ug/L	<0.66	2.8	12/30/19 13:18	

LABORATORY CONTROL SAMPLE & LCSD: 1999375 1999376

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	53.6	55.0	55.4	103	103	80-120	1	20	
Ethene	ug/L	50	50.1	50.6	100	101	80-120	1	20	
Methane	ug/L	28.6	28.1	28.5	98	100	80-120	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1999428 1999429

Parameter	Units	75121752001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Ethane	ug/L	<5.6	53.6	53.6	49.2	50.7	92	95	80-120	3	20	
Ethene	ug/L	<5.0	50	50	44.9	46.4	90	93	80-120	3	20	
Methane	ug/L	<2.8	28.6	28.6	24.1	24.9	84	87	77-122	3	20	

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QUALITY CONTROL DATA

Project: 20.0155935.01 T.4 TRENT TUBE

Pace Project No.: 40201206

QC Batch: 344457 Analysis Method: EPA 6010
 QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved
 Associated Lab Samples: 40201206001, 40201206002, 40201206003, 40201206004, 40201206005, 40201206006, 40201206007, 40201206008, 40201206009

METHOD BLANK: 1999067 Matrix: Water
 Associated Lab Samples: 40201206001, 40201206002, 40201206003, 40201206004, 40201206005, 40201206006, 40201206007, 40201206008, 40201206009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Dissolved	ug/L	<29.6	100	12/27/19 16:06	

LABORATORY CONTROL SAMPLE: 1999068

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	ug/L	5000	4830	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1999069 1999070

Parameter	Units	40201130001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron, Dissolved	ug/L	0.28 mg/L	5000	5000	5020	5040	95	95	75-125	0	20	

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QUALITY CONTROL DATA

Project: 20.0155935.01 T.4 TRENT TUBE
Pace Project No.: 40201206

QC Batch: 344088 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40201206010

METHOD BLANK: 1997703 Matrix: Water
Associated Lab Samples: 40201206010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	12/23/19 09:05	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	12/23/19 09:05	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	12/23/19 09:05	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	12/23/19 09:05	
1,1-Dichloroethane	ug/L	<0.27	1.0	12/23/19 09:05	
1,1-Dichloroethene	ug/L	<0.24	1.0	12/23/19 09:05	
1,1-Dichloropropene	ug/L	<0.54	1.8	12/23/19 09:05	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	12/23/19 09:05	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	12/23/19 09:05	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	12/23/19 09:05	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	12/23/19 09:05	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	12/23/19 09:05	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	12/23/19 09:05	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	12/23/19 09:05	
1,2-Dichloroethane	ug/L	<0.28	1.0	12/23/19 09:05	
1,2-Dichloropropane	ug/L	<0.28	1.0	12/23/19 09:05	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	12/23/19 09:05	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	12/23/19 09:05	
1,3-Dichloropropane	ug/L	<0.83	2.8	12/23/19 09:05	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	12/23/19 09:05	
2,2-Dichloropropane	ug/L	<2.3	7.6	12/23/19 09:05	
2-Chlorotoluene	ug/L	<0.93	5.0	12/23/19 09:05	
4-Chlorotoluene	ug/L	<0.76	2.5	12/23/19 09:05	
Benzene	ug/L	<0.25	1.0	12/23/19 09:05	
Bromobenzene	ug/L	<0.24	1.0	12/23/19 09:05	
Bromochloromethane	ug/L	<0.36	5.0	12/23/19 09:05	
Bromodichloromethane	ug/L	<0.36	1.2	12/23/19 09:05	
Bromoform	ug/L	<4.0	13.2	12/23/19 09:05	
Bromomethane	ug/L	<0.97	5.0	12/23/19 09:05	
Carbon tetrachloride	ug/L	<0.17	1.0	12/23/19 09:05	
Chlorobenzene	ug/L	<0.71	2.4	12/23/19 09:05	
Chloroethane	ug/L	<1.3	5.0	12/23/19 09:05	
Chloroform	ug/L	<1.3	5.0	12/23/19 09:05	
Chloromethane	ug/L	<2.2	7.3	12/23/19 09:05	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	12/23/19 09:05	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	12/23/19 09:05	
Dibromochloromethane	ug/L	<2.6	8.7	12/23/19 09:05	
Dibromomethane	ug/L	<0.94	3.1	12/23/19 09:05	
Dichlorodifluoromethane	ug/L	<0.50	5.0	12/23/19 09:05	
Diisopropyl ether	ug/L	<1.9	6.3	12/23/19 09:05	
Ethylbenzene	ug/L	<0.22	1.0	12/23/19 09:05	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0155935.01 T.4 TRENT TUBE

Pace Project No.: 40201206

METHOD BLANK: 1997703

Matrix: Water

Associated Lab Samples: 40201206010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	12/23/19 09:05	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	12/23/19 09:05	
m&p-Xylene	ug/L	<0.47	2.0	12/23/19 09:05	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	12/23/19 09:05	
Methylene Chloride	ug/L	<0.58	5.0	12/23/19 09:05	
n-Butylbenzene	ug/L	<0.71	2.4	12/23/19 09:05	
n-Propylbenzene	ug/L	<0.81	5.0	12/23/19 09:05	
Naphthalene	ug/L	<1.2	5.0	12/23/19 09:05	
o-Xylene	ug/L	<0.26	1.0	12/23/19 09:05	
p-Isopropyltoluene	ug/L	<0.80	2.7	12/23/19 09:05	
sec-Butylbenzene	ug/L	<0.85	5.0	12/23/19 09:05	
Styrene	ug/L	<0.47	1.6	12/23/19 09:05	
tert-Butylbenzene	ug/L	<0.30	1.0	12/23/19 09:05	
Tetrachloroethene	ug/L	<0.33	1.1	12/23/19 09:05	
Toluene	ug/L	<0.17	5.0	12/23/19 09:05	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	12/23/19 09:05	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	12/23/19 09:05	
Trichloroethene	ug/L	<0.26	1.0	12/23/19 09:05	
Trichlorofluoromethane	ug/L	<0.21	1.0	12/23/19 09:05	
Vinyl chloride	ug/L	<0.17	1.0	12/23/19 09:05	
4-Bromofluorobenzene (S)	%	90	70-130	12/23/19 09:05	
Dibromofluoromethane (S)	%	106	70-130	12/23/19 09:05	
Toluene-d8 (S)	%	95	70-130	12/23/19 09:05	

LABORATORY CONTROL SAMPLE: 1997704

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	52.0	104	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	47.8	96	70-130	
1,1,2-Trichloroethane	ug/L	50	50.8	102	70-130	
1,1-Dichloroethane	ug/L	50	51.2	102	73-150	
1,1-Dichloroethene	ug/L	50	49.4	99	73-138	
1,2,4-Trichlorobenzene	ug/L	50	40.6	81	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	38.3	77	64-129	
1,2-Dibromoethane (EDB)	ug/L	50	48.6	97	70-130	
1,2-Dichlorobenzene	ug/L	50	49.0	98	70-130	
1,2-Dichloroethane	ug/L	50	51.1	102	75-140	
1,2-Dichloropropane	ug/L	50	51.0	102	73-135	
1,3-Dichlorobenzene	ug/L	50	48.0	96	70-130	
1,4-Dichlorobenzene	ug/L	50	50.4	101	70-130	
Benzene	ug/L	50	52.0	104	70-130	
Bromodichloromethane	ug/L	50	51.0	102	70-130	
Bromoform	ug/L	50	47.4	95	68-129	
Bromomethane	ug/L	50	33.5	67	18-159	

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QUALITY CONTROL DATA

Project: 20.0155935.01 T.4 TRENT TUBE

Pace Project No.: 40201206

LABORATORY CONTROL SAMPLE: 1997704

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	51.9	104	70-130	
Chlorobenzene	ug/L	50	52.0	104	70-130	
Chloroethane	ug/L	50	44.7	89	53-147	
Chloroform	ug/L	50	51.1	102	74-136	
Chloromethane	ug/L	50	29.4	59	29-115	
cis-1,2-Dichloroethene	ug/L	50	50.8	102	70-130	
cis-1,3-Dichloropropene	ug/L	50	44.2	88	70-130	
Dibromochloromethane	ug/L	50	49.9	100	70-130	
Dichlorodifluoromethane	ug/L	50	30.0	60	10-130	
Ethylbenzene	ug/L	50	49.1	98	80-124	
Isopropylbenzene (Cumene)	ug/L	50	46.6	93	70-130	
m&p-Xylene	ug/L	100	101	101	70-130	
Methyl-tert-butyl ether	ug/L	50	38.6	77	54-137	
Methylene Chloride	ug/L	50	48.1	96	73-138	
o-Xylene	ug/L	50	48.3	97	70-130	
Styrene	ug/L	50	49.8	100	70-130	
Tetrachloroethene	ug/L	50	50.4	101	70-130	
Toluene	ug/L	50	50.5	101	80-126	
trans-1,2-Dichloroethene	ug/L	50	51.4	103	73-145	
trans-1,3-Dichloropropene	ug/L	50	41.1	82	70-130	
Trichloroethene	ug/L	50	53.4	107	70-130	
Trichlorofluoromethane	ug/L	50	53.9	108	76-147	
Vinyl chloride	ug/L	50	41.6	83	51-120	
4-Bromofluorobenzene (S)	%			99	70-130	
Dibromofluoromethane (S)	%			103	70-130	
Toluene-d8 (S)	%			95	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1997763 1997764

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40201086004	Result	Spike Conc.	Spike Conc.								
1,1,1-Trichloroethane	ug/L	<24.5	2500	2500	2580	2610	103	104	70-130	1	20		
1,1,2,2-Tetrachloroethane	ug/L	<27.5	2500	2500	2320	2300	93	92	70-130	1	20		
1,1,2-Trichloroethane	ug/L	<55.2	2500	2500	2510	2450	100	98	70-137	2	20		
1,1-Dichloroethane	ug/L	<27.3	2500	2500	2510	2550	101	102	73-153	1	20		
1,1-Dichloroethene	ug/L	<24.5	2500	2500	2430	2470	97	99	73-138	2	20		
1,2,4-Trichlorobenzene	ug/L	<95.1	2500	2500	2220	2250	89	90	70-130	1	20		
1,2-Dibromo-3-chloropropane	ug/L	<176	2500	2500	1940	1940	78	78	58-129	0	20		
1,2-Dibromoethane (EDB)	ug/L	<82.9	2500	2500	2530	2510	99	98	70-130	1	20		
1,2-Dichlorobenzene	ug/L	<70.5	2500	2500	2520	2510	101	100	70-130	0	20		
1,2-Dichloroethane	ug/L	<28.0	2500	2500	2640	2650	105	106	75-140	1	20		
1,2-Dichloropropane	ug/L	<28.3	2500	2500	2430	2440	97	98	71-138	1	20		
1,3-Dichlorobenzene	ug/L	<62.8	2500	2500	2470	2480	99	99	70-130	0	20		
1,4-Dichlorobenzene	ug/L	<94.4	2500	2500	2500	2490	100	100	70-130	0	20		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0155935.01 T.4 TRENT TUBE
Pace Project No.: 40201206

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1997763 1997764												
Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	Max RPD	Qual
		40201086004	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
Benzene	ug/L	3790	2500	2500	6830	6820	122	121	70-130	0	20	
Bromodichloromethane	ug/L	<36.4	2500	2500	2490	2470	100	99	70-130	1	20	
Bromoform	ug/L	<397	2500	2500	2310	2250	92	90	68-129	2	20	
Bromomethane	ug/L	<97.1	2500	2500	1830	2030	73	81	15-170	10	20	
Carbon tetrachloride	ug/L	<16.6	2500	2500	2590	2600	104	104	70-130	0	20	
Chlorobenzene	ug/L	<71.1	2500	2500	2560	2510	102	101	70-130	2	20	
Chloroethane	ug/L	<134	2500	2500	2210	2280	88	91	51-148	3	20	
Chloroform	ug/L	<127	2500	2500	2520	2560	101	102	74-136	1	20	
Chloromethane	ug/L	<219	2500	2500	1440	1480	58	59	23-115	3	20	
cis-1,2-Dichloroethene	ug/L	<27.1	2500	2500	2530	2570	101	103	70-131	1	20	
cis-1,3-Dichloropropene	ug/L	<363	2500	2500	2210	2220	88	89	70-130	1	20	
Dibromochloromethane	ug/L	<260	2500	2500	2430	2400	97	96	70-130	1	20	
Dichlorodifluoromethane	ug/L	<50.0	2500	2500	1410	1400	57	56	10-132	1	20	
Ethylbenzene	ug/L	1600	2500	2500	4460	4430	114	113	80-125	1	20	
Isopropylbenzene (Cumene)	ug/L	41.2J	2500	2500	2390	2400	94	94	70-130	0	20	
m&p-Xylene	ug/L	6940	5000	5000	12700	12600	116	113	70-130	1	20	
Methyl-tert-butyl ether	ug/L	<125	2500	2500	1940	2000	76	78	51-145	3	20	
Methylene Chloride	ug/L	<58.1	2500	2500	2420	2410	95	95	73-140	0	20	
o-Xylene	ug/L	2840	2500	2500	5810	5750	119	116	70-130	1	20	
Styrene	ug/L	<46.5	2500	2500	2590	2550	104	102	70-130	2	20	
Tetrachloroethene	ug/L	<32.6	2500	2500	2500	2490	100	99	70-130	1	20	
trans-1,2-Dichloroethene	ug/L	<109	2500	2500	2540	2590	101	104	73-148	2	20	
trans-1,3-Dichloropropene	ug/L	<437	2500	2500	2040	2060	82	83	70-130	1	20	
Trichloroethene	ug/L	<25.5	2500	2500	2620	2650	105	106	70-130	1	20	
Trichlorofluoromethane	ug/L	<21.5	2500	2500	2660	2670	106	107	74-147	0	20	
Vinyl chloride	ug/L	<17.5	2500	2500	2100	2130	84	85	41-129	1	20	
4-Bromofluorobenzene (S)	%						98	97	70-130			
Dibromofluoromethane (S)	%						103	102	70-130			
Toluene-d8 (S)	%						94	94	70-130			

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QUALITY CONTROL DATA

Project: 20.0155935.01 T.4 TRENT TUBE
Pace Project No.: 40201206

QC Batch: 344105 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40201206005

METHOD BLANK: 1997748 Matrix: Water
Associated Lab Samples: 40201206005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	12/23/19 12:45	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	12/23/19 12:45	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	12/23/19 12:45	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	12/23/19 12:45	
1,1-Dichloroethane	ug/L	<0.27	1.0	12/23/19 12:45	
1,1-Dichloroethene	ug/L	<0.24	1.0	12/23/19 12:45	
1,1-Dichloropropene	ug/L	<0.54	1.8	12/23/19 12:45	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	12/23/19 12:45	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	12/23/19 12:45	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	12/23/19 12:45	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	12/23/19 12:45	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	12/23/19 12:45	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	12/23/19 12:45	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	12/23/19 12:45	
1,2-Dichloroethane	ug/L	<0.28	1.0	12/23/19 12:45	
1,2-Dichloropropane	ug/L	<0.28	1.0	12/23/19 12:45	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	12/23/19 12:45	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	12/23/19 12:45	
1,3-Dichloropropane	ug/L	<0.83	2.8	12/23/19 12:45	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	12/23/19 12:45	
2,2-Dichloropropane	ug/L	<2.3	7.6	12/23/19 12:45	
2-Chlorotoluene	ug/L	<0.93	5.0	12/23/19 12:45	
4-Chlorotoluene	ug/L	<0.76	2.5	12/23/19 12:45	
Benzene	ug/L	<0.25	1.0	12/23/19 12:45	
Bromobenzene	ug/L	<0.24	1.0	12/23/19 12:45	
Bromochloromethane	ug/L	<0.36	5.0	12/23/19 12:45	
Bromodichloromethane	ug/L	<0.36	1.2	12/23/19 12:45	
Bromoform	ug/L	<4.0	13.2	12/23/19 12:45	
Bromomethane	ug/L	<0.97	5.0	12/23/19 12:45	
Carbon tetrachloride	ug/L	<0.17	1.0	12/23/19 12:45	
Chlorobenzene	ug/L	<0.71	2.4	12/23/19 12:45	
Chloroethane	ug/L	<1.3	5.0	12/23/19 12:45	
Chloroform	ug/L	<1.3	5.0	12/23/19 12:45	
Chloromethane	ug/L	<2.2	7.3	12/23/19 12:45	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	12/23/19 12:45	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	12/23/19 12:45	
Dibromochloromethane	ug/L	<2.6	8.7	12/23/19 12:45	
Dibromomethane	ug/L	<0.94	3.1	12/23/19 12:45	
Dichlorodifluoromethane	ug/L	<0.50	5.0	12/23/19 12:45	
Diisopropyl ether	ug/L	<1.9	6.3	12/23/19 12:45	
Ethylbenzene	ug/L	<0.22	1.0	12/23/19 12:45	

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QUALITY CONTROL DATA

Project: 20.0155935.01 T.4 TRENT TUBE
Pace Project No.: 40201206

METHOD BLANK: 1997748 Matrix: Water
Associated Lab Samples: 40201206005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	12/23/19 12:45	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	12/23/19 12:45	
m&p-Xylene	ug/L	<0.47	2.0	12/23/19 12:45	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	12/23/19 12:45	
Methylene Chloride	ug/L	0.70J	5.0	12/23/19 12:45	
n-Butylbenzene	ug/L	<0.71	2.4	12/23/19 12:45	
n-Propylbenzene	ug/L	<0.81	5.0	12/23/19 12:45	
Naphthalene	ug/L	<1.2	5.0	12/23/19 12:45	
o-Xylene	ug/L	<0.26	1.0	12/23/19 12:45	
p-Isopropyltoluene	ug/L	<0.80	2.7	12/23/19 12:45	
sec-Butylbenzene	ug/L	<0.85	5.0	12/23/19 12:45	
Styrene	ug/L	<0.47	1.6	12/23/19 12:45	
tert-Butylbenzene	ug/L	<0.30	1.0	12/23/19 12:45	
Tetrachloroethene	ug/L	<0.33	1.1	12/23/19 12:45	
Toluene	ug/L	<0.17	5.0	12/23/19 12:45	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	12/23/19 12:45	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	12/23/19 12:45	
Trichloroethene	ug/L	<0.26	1.0	12/23/19 12:45	
Trichlorofluoromethane	ug/L	<0.21	1.0	12/23/19 12:45	
Vinyl chloride	ug/L	<0.17	1.0	12/23/19 12:45	
4-Bromofluorobenzene (S)	%	103	70-130	12/23/19 12:45	
Dibromofluoromethane (S)	%	124	70-130	12/23/19 12:45	
Toluene-d8 (S)	%	105	70-130	12/23/19 12:45	

LABORATORY CONTROL SAMPLE: 1997749

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	51.7	103	70-130	
1,1,1-Trichloroethane	ug/L	50	57.7	115	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	60.9	122	70-130	
1,1,2-Trichloroethane	ug/L	50	62.8	126	70-130	
1,1-Dichloroethane	ug/L	50	59.6	119	73-150	
1,1-Dichloroethene	ug/L	50	58.2	116	73-138	
1,1-Dichloropropene	ug/L	50	64.1	128	70-130	
1,2,3-Trichlorobenzene	ug/L	50	46.3	93	70-130	
1,2,3-Trichloropropane	ug/L	50	59.5	119	70-130	
1,2,4-Trichlorobenzene	ug/L	50	44.3	89	70-130	
1,2,4-Trimethylbenzene	ug/L	50	54.9	110	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	53.7	107	64-129	
1,2-Dibromoethane (EDB)	ug/L	50	55.2	110	70-130	
1,2-Dichlorobenzene	ug/L	50	49.0	98	70-130	
1,2-Dichloroethane	ug/L	50	55.9	112	75-140	
1,2-Dichloropropane	ug/L	50	64.4	129	73-135	
1,3,5-Trimethylbenzene	ug/L	50	57.4	115	70-130	

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QUALITY CONTROL DATA

Project: 20.0155935.01 T.4 TRENT TUBE

Pace Project No.: 40201206

LABORATORY CONTROL SAMPLE: 1997749

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,3-Dichlorobenzene	ug/L	50	49.8	100	70-130	
1,3-Dichloropropane	ug/L	50	61.9	124	70-130	
1,4-Dichlorobenzene	ug/L	50	47.8	96	70-130	
2,2-Dichloropropane	ug/L	50	63.5	127	70-130	
2-Chlorotoluene	ug/L	50	58.1	116	70-130	
4-Chlorotoluene	ug/L	50	48.7	97	70-130	
Benzene	ug/L	50	62.9	126	70-130	
Bromobenzene	ug/L	50	47.6	95	70-130	
Bromochloromethane	ug/L	50	50.7	101	70-130	
Bromodichloromethane	ug/L	50	56.3	113	70-130	
Bromoform	ug/L	50	45.2	90	68-129	
Bromomethane	ug/L	50	51.0	102	18-159	
Carbon tetrachloride	ug/L	50	57.8	116	70-130	
Chlorobenzene	ug/L	50	50.5	101	70-130	
Chloroethane	ug/L	50	61.4	123	53-147	
Chloroform	ug/L	50	60.4	121	74-136	
Chloromethane	ug/L	50	48.4	97	29-115	
cis-1,2-Dichloroethene	ug/L	50	55.9	112	70-130	
cis-1,3-Dichloropropene	ug/L	50	57.6	115	70-130	
Dibromochloromethane	ug/L	50	52.3	105	70-130	
Dibromomethane	ug/L	50	55.0	110	70-130	
Dichlorodifluoromethane	ug/L	50	46.0	92	10-130	
Diisopropyl ether	ug/L	50	59.0	118	70-130	
Ethylbenzene	ug/L	50	59.1	118	80-124	
Hexachloro-1,3-butadiene	ug/L	50	52.1	104	70-130	
Isopropylbenzene (Cumene)	ug/L	50	60.0	120	70-130	
m&p-Xylene	ug/L	100	119	119	70-130	
Methyl-tert-butyl ether	ug/L	50	55.9	112	54-137	
Methylene Chloride	ug/L	50	57.2	114	73-138	
n-Butylbenzene	ug/L	50	61.3	123	70-130	
n-Propylbenzene	ug/L	50	59.2	118	70-130	
Naphthalene	ug/L	50	49.0	98	70-130	
o-Xylene	ug/L	50	57.3	115	70-130	
p-Isopropyltoluene	ug/L	50	53.8	108	70-130	
sec-Butylbenzene	ug/L	50	57.7	115	70-130	
Styrene	ug/L	50	61.1	122	70-130	
tert-Butylbenzene	ug/L	50	53.2	106	70-130	
Tetrachloroethene	ug/L	50	52.9	106	70-130	
Toluene	ug/L	50	58.9	118	80-126	
trans-1,2-Dichloroethene	ug/L	50	54.9	110	73-145	
trans-1,3-Dichloropropene	ug/L	50	51.2	102	70-130	
Trichloroethene	ug/L	50	55.8	112	70-130	
Trichlorofluoromethane	ug/L	50	60.8	122	76-147	
Vinyl chloride	ug/L	50	48.6	97	51-120	
4-Bromofluorobenzene (S)	%			116	70-130	
Dibromofluoromethane (S)	%			108	70-130	
Toluene-d8 (S)	%			110	70-130	

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QUALITY CONTROL DATA

Project: 20.0155935.01 T.4 TRENT TUBE
Pace Project No.: 40201206

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1997935 1997936												
Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		40201206005 Result	Spike Conc.	Spike Conc.	MS Result							
1,1,1,2-Tetrachloroethane	ug/L	<0.27	50	50	52.1	51.3	104	103	70-130	1	20	
1,1,1-Trichloroethane	ug/L	<0.24	50	50	60.9	60.0	122	120	70-130	1	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	63.9	61.9	128	124	70-130	3	20	
1,1,2-Trichloroethane	ug/L	<0.55	50	50	64.0	60.6	128	121	70-137	5	20	
1,1-Dichloroethane	ug/L	<0.27	50	50	60.7	60.9	121	122	73-153	0	20	
1,1-Dichloroethene	ug/L	<0.24	50	50	63.1	61.6	126	123	73-138	2	20	
1,1-Dichloropropene	ug/L	<0.54	50	50	68.3	67.3	137	135	70-130	1	20	M1
1,2,3-Trichlorobenzene	ug/L	<0.63	50	50	50.1	50.5	100	101	70-130	1	20	
1,2,3-Trichloropropane	ug/L	<0.59	50	50	62.8	62.0	126	124	70-130	1	20	
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	48.1	48.6	96	97	70-130	1	20	
1,2,4-Trimethylbenzene	ug/L	<0.84	50	50	55.2	55.6	110	111	70-130	1	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	62.4	60.2	125	120	58-129	4	20	
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	54.9	55.6	110	111	70-130	1	20	
1,2-Dichlorobenzene	ug/L	<0.71	50	50	50.3	50.5	101	101	70-130	0	20	
1,2-Dichloroethane	ug/L	<0.28	50	50	57.1	56.4	114	113	75-140	1	20	
1,2-Dichloropropane	ug/L	<0.28	50	50	66.0	63.5	132	127	71-138	4	20	
1,3,5-Trimethylbenzene	ug/L	<0.87	50	50	59.5	58.4	119	117	70-130	2	20	
1,3-Dichlorobenzene	ug/L	<0.63	50	50	49.9	51.6	100	103	70-130	3	20	
1,3-Dichloropropane	ug/L	<0.83	50	50	64.1	60.2	128	120	70-130	6	20	
1,4-Dichlorobenzene	ug/L	<0.94	50	50	47.9	48.2	96	96	70-130	1	20	
2,2-Dichloropropane	ug/L	<2.3	50	50	66.1	64.1	132	128	70-130	3	20	M1
2-Chlorotoluene	ug/L	<0.93	50	50	60.6	60.9	121	122	70-130	0	20	
4-Chlorotoluene	ug/L	<0.76	50	50	51.2	51.1	102	102	70-130	0	20	
Benzene	ug/L	<0.25	50	50	63.9	63.4	128	127	70-130	1	20	
Bromobenzene	ug/L	<0.24	50	50	49.6	49.6	99	99	70-130	0	20	
Bromochloromethane	ug/L	<0.36	50	50	51.2	48.7	102	97	70-130	5	20	
Bromodichloromethane	ug/L	<0.36	50	50	55.0	54.2	110	108	70-130	1	20	
Bromoform	ug/L	<4.0	50	50	47.4	44.2	95	88	68-129	7	20	
Bromomethane	ug/L	<0.97	50	50	57.2	60.5	114	121	15-170	6	20	
Carbon tetrachloride	ug/L	<0.17	50	50	58.4	57.8	117	116	70-130	1	20	
Chlorobenzene	ug/L	<0.71	50	50	51.1	49.3	102	99	70-130	3	20	
Chloroethane	ug/L	<1.3	50	50	65.8	64.1	132	128	51-148	3	20	
Chloroform	ug/L	<1.3	50	50	60.6	58.7	121	117	74-136	3	20	
Chloromethane	ug/L	<2.2	50	50	57.0	56.8	114	114	23-115	0	20	
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	56.6	57.2	113	114	70-131	1	20	
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	61.3	57.6	123	115	70-130	6	20	
Dibromochloromethane	ug/L	<2.6	50	50	52.0	49.5	104	99	70-130	5	20	
Dibromomethane	ug/L	<0.94	50	50	54.1	53.8	108	108	70-130	1	20	
Dichlorodifluoromethane	ug/L	<0.50	50	50	51.0	49.0	102	98	10-132	4	20	
Diisopropyl ether	ug/L	<1.9	50	50	63.0	64.0	126	128	70-130	2	20	
Ethylbenzene	ug/L	<0.22	50	50	60.7	59.2	121	118	80-125	3	20	
Hexachloro-1,3-butadiene	ug/L	<1.2	50	50	52.0	55.1	104	110	70-130	6	20	
Isopropylbenzene (Cumene)	ug/L	<0.39	50	50	60.0	58.8	120	118	70-130	2	20	
m&p-Xylene	ug/L	<0.47	100	100	118	116	118	116	70-130	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0155935.01 T.4 TRENT TUBE
Pace Project No.: 40201206

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1997935		1997936		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		40201206005 Result	MS Spike Conc.	MSD Spike Conc.								
Methyl-tert-butyl ether	ug/L	<1.2	50	50	59.5	59.3	119	119	51-145	0	20	
Methylene Chloride	ug/L	<0.58	50	50	56.0	56.3	112	113	73-140	1	20	
n-Butylbenzene	ug/L	<0.71	50	50	63.5	62.4	127	125	70-130	2	20	
n-Propylbenzene	ug/L	<0.81	50	50	62.4	62.2	125	124	70-130	0	20	
Naphthalene	ug/L	<1.2	50	50	51.2	50.3	102	101	70-130	2	20	
o-Xylene	ug/L	<0.26	50	50	57.9	57.1	116	114	70-130	1	20	
p-Isopropyltoluene	ug/L	<0.80	50	50	56.0	54.9	112	110	70-130	2	20	
sec-Butylbenzene	ug/L	<0.85	50	50	59.7	60.2	119	120	70-130	1	20	
Styrene	ug/L	<0.47	50	50	58.6	57.8	117	116	70-130	1	20	
tert-Butylbenzene	ug/L	<0.30	50	50	55.5	55.0	111	110	70-130	1	20	
Tetrachloroethene	ug/L	<0.33	50	50	56.4	50.5	113	101	70-130	11	20	
Toluene	ug/L	<0.17	50	50	61.1	57.1	122	114	80-131	7	20	
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	56.2	57.1	112	114	73-148	1	20	
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	53.3	50.3	107	101	70-130	6	20	
Trichloroethene	ug/L	<0.26	50	50	58.0	56.9	116	114	70-130	2	20	
Trichlorofluoromethane	ug/L	<0.21	50	50	63.1	62.1	126	124	74-147	2	20	
Vinyl chloride	ug/L	<0.17	50	50	56.4	55.6	113	111	41-129	2	20	
4-Bromofluorobenzene (S)	%						116	111	70-130			HS
Dibromofluoromethane (S)	%						108	106	70-130			
Toluene-d8 (S)	%						115	108	70-130			

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0155935.01 T.4 TRENT TUBE

Pace Project No.: 40201206

QC Batch: 344227 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40201206001, 40201206002, 40201206003, 40201206004

METHOD BLANK: 1998080 Matrix: Water
Associated Lab Samples: 40201206001, 40201206002, 40201206003, 40201206004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	12/24/19 07:26	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	12/24/19 07:26	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	12/24/19 07:26	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	12/24/19 07:26	
1,1-Dichloroethane	ug/L	<0.27	1.0	12/24/19 07:26	
1,1-Dichloroethene	ug/L	<0.24	1.0	12/24/19 07:26	
1,1-Dichloropropene	ug/L	<0.54	1.8	12/24/19 07:26	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	12/24/19 07:26	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	12/24/19 07:26	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	12/24/19 07:26	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	12/24/19 07:26	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	12/24/19 07:26	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	12/24/19 07:26	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	12/24/19 07:26	
1,2-Dichloroethane	ug/L	<0.28	1.0	12/24/19 07:26	
1,2-Dichloropropane	ug/L	<0.28	1.0	12/24/19 07:26	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	12/24/19 07:26	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	12/24/19 07:26	
1,3-Dichloropropane	ug/L	<0.83	2.8	12/24/19 07:26	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	12/24/19 07:26	
2,2-Dichloropropane	ug/L	<2.3	7.6	12/24/19 07:26	
2-Chlorotoluene	ug/L	<0.93	5.0	12/24/19 07:26	
4-Chlorotoluene	ug/L	<0.76	2.5	12/24/19 07:26	
Benzene	ug/L	<0.25	1.0	12/24/19 07:26	
Bromobenzene	ug/L	<0.24	1.0	12/24/19 07:26	
Bromochloromethane	ug/L	<0.36	5.0	12/24/19 07:26	
Bromodichloromethane	ug/L	<0.36	1.2	12/24/19 07:26	
Bromoform	ug/L	<4.0	13.2	12/24/19 07:26	
Bromomethane	ug/L	<0.97	5.0	12/24/19 07:26	
Carbon tetrachloride	ug/L	<0.17	1.0	12/24/19 07:26	
Chlorobenzene	ug/L	<0.71	2.4	12/24/19 07:26	
Chloroethane	ug/L	<1.3	5.0	12/24/19 07:26	
Chloroform	ug/L	<1.3	5.0	12/24/19 07:26	
Chloromethane	ug/L	<2.2	7.3	12/24/19 07:26	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	12/24/19 07:26	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	12/24/19 07:26	
Dibromochloromethane	ug/L	<2.6	8.7	12/24/19 07:26	
Dibromomethane	ug/L	<0.94	3.1	12/24/19 07:26	
Dichlorodifluoromethane	ug/L	<0.50	5.0	12/24/19 07:26	
Diisopropyl ether	ug/L	<1.9	6.3	12/24/19 07:26	
Ethylbenzene	ug/L	<0.22	1.0	12/24/19 07:26	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0155935.01 T.4 TRENT TUBE

Pace Project No.: 40201206

METHOD BLANK: 1998080

Matrix: Water

Associated Lab Samples: 40201206001, 40201206002, 40201206003, 40201206004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	12/24/19 07:26	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	12/24/19 07:26	
m&p-Xylene	ug/L	<0.47	2.0	12/24/19 07:26	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	12/24/19 07:26	
Methylene Chloride	ug/L	<0.58	5.0	12/24/19 07:26	
n-Butylbenzene	ug/L	<0.71	2.4	12/24/19 07:26	
n-Propylbenzene	ug/L	<0.81	5.0	12/24/19 07:26	
Naphthalene	ug/L	<1.2	5.0	12/24/19 07:26	
o-Xylene	ug/L	<0.26	1.0	12/24/19 07:26	
p-Isopropyltoluene	ug/L	<0.80	2.7	12/24/19 07:26	
sec-Butylbenzene	ug/L	<0.85	5.0	12/24/19 07:26	
Styrene	ug/L	<0.47	1.6	12/24/19 07:26	
tert-Butylbenzene	ug/L	<0.30	1.0	12/24/19 07:26	
Tetrachloroethene	ug/L	<0.33	1.1	12/24/19 07:26	
Toluene	ug/L	<0.17	5.0	12/24/19 07:26	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	12/24/19 07:26	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	12/24/19 07:26	
Trichloroethene	ug/L	<0.26	1.0	12/24/19 07:26	
Trichlorofluoromethane	ug/L	<0.21	1.0	12/24/19 07:26	
Vinyl chloride	ug/L	<0.17	1.0	12/24/19 07:26	
4-Bromofluorobenzene (S)	%	92	70-130	12/24/19 07:26	
Dibromofluoromethane (S)	%	90	70-130	12/24/19 07:26	
Toluene-d8 (S)	%	96	70-130	12/24/19 07:26	

LABORATORY CONTROL SAMPLE: 1998081

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	46.2	92	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	45.0	90	70-130	
1,1,2-Trichloroethane	ug/L	50	47.4	95	70-130	
1,1-Dichloroethane	ug/L	50	60.7	121	73-150	
1,1-Dichloroethene	ug/L	50	45.6	91	73-138	
1,2,4-Trichlorobenzene	ug/L	50	53.8	108	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	43.0	86	64-129	
1,2-Dibromoethane (EDB)	ug/L	50	49.5	99	70-130	
1,2-Dichlorobenzene	ug/L	50	51.3	103	70-130	
1,2-Dichloroethane	ug/L	50	53.1	106	75-140	
1,2-Dichloropropane	ug/L	50	56.2	112	73-135	
1,3-Dichlorobenzene	ug/L	50	52.3	105	70-130	
1,4-Dichlorobenzene	ug/L	50	50.5	101	70-130	
Benzene	ug/L	50	47.0	94	70-130	
Bromodichloromethane	ug/L	50	48.8	98	70-130	
Bromoform	ug/L	50	49.2	98	68-129	
Bromomethane	ug/L	50	31.1	62	18-159	

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QUALITY CONTROL DATA

Project: 20.0155935.01 T.4 TRENT TUBE
Pace Project No.: 40201206

LABORATORY CONTROL SAMPLE: 1998081

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	44.0	88	70-130	
Chlorobenzene	ug/L	50	52.7	105	70-130	
Chloroethane	ug/L	50	48.6	97	53-147	
Chloroform	ug/L	50	45.1	90	74-136	
Chloromethane	ug/L	50	41.6	83	29-115	
cis-1,2-Dichloroethene	ug/L	50	43.6	87	70-130	
cis-1,3-Dichloropropene	ug/L	50	48.8	98	70-130	
Dibromochloromethane	ug/L	50	51.0	102	70-130	
Dichlorodifluoromethane	ug/L	50	22.5	45	10-130	
Ethylbenzene	ug/L	50	49.9	100	80-124	
Isopropylbenzene (Cumene)	ug/L	50	51.8	104	70-130	
m&p-Xylene	ug/L	100	101	101	70-130	
Methyl-tert-butyl ether	ug/L	50	44.3	89	54-137	
Methylene Chloride	ug/L	50	46.8	94	73-138	
o-Xylene	ug/L	50	49.0	98	70-130	
Styrene	ug/L	50	51.0	102	70-130	
Tetrachloroethene	ug/L	50	55.2	110	70-130	
Toluene	ug/L	50	50.1	100	80-126	
trans-1,2-Dichloroethene	ug/L	50	47.5	95	73-145	
trans-1,3-Dichloropropene	ug/L	50	41.8	84	70-130	
Trichloroethene	ug/L	50	52.0	104	70-130	
Trichlorofluoromethane	ug/L	50	48.3	97	76-147	
Vinyl chloride	ug/L	50	46.2	92	51-120	
4-Bromofluorobenzene (S)	%			96	70-130	
Dibromofluoromethane (S)	%			90	70-130	
Toluene-d8 (S)	%			93	70-130	

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QUALITY CONTROL DATA

Project: 20.0155935.01 T.4 TRENT TUBE

Pace Project No.: 40201206

QC Batch: 344309 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Associated Lab Samples: 40201206006, 40201206007, 40201206008, 40201206009

METHOD BLANK: 1998487 Matrix: Water
Associated Lab Samples: 40201206006, 40201206007, 40201206008, 40201206009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	12/26/19 08:34	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	12/26/19 08:34	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	12/26/19 08:34	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	12/26/19 08:34	
1,1-Dichloroethane	ug/L	<0.27	1.0	12/26/19 08:34	
1,1-Dichloroethene	ug/L	<0.24	1.0	12/26/19 08:34	
1,1-Dichloropropene	ug/L	<0.54	1.8	12/26/19 08:34	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	12/26/19 08:34	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	12/26/19 08:34	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	12/26/19 08:34	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	12/26/19 08:34	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	12/26/19 08:34	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	12/26/19 08:34	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	12/26/19 08:34	
1,2-Dichloroethane	ug/L	<0.28	1.0	12/26/19 08:34	
1,2-Dichloropropane	ug/L	<0.28	1.0	12/26/19 08:34	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	12/26/19 08:34	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	12/26/19 08:34	
1,3-Dichloropropane	ug/L	<0.83	2.8	12/26/19 08:34	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	12/26/19 08:34	
2,2-Dichloropropane	ug/L	<2.3	7.6	12/26/19 08:34	
2-Chlorotoluene	ug/L	<0.93	5.0	12/26/19 08:34	
4-Chlorotoluene	ug/L	<0.76	2.5	12/26/19 08:34	
Benzene	ug/L	<0.25	1.0	12/26/19 08:34	
Bromobenzene	ug/L	<0.24	1.0	12/26/19 08:34	
Bromochloromethane	ug/L	<0.36	5.0	12/26/19 08:34	
Bromodichloromethane	ug/L	<0.36	1.2	12/26/19 08:34	
Bromoform	ug/L	<4.0	13.2	12/26/19 08:34	
Bromomethane	ug/L	<0.97	5.0	12/26/19 08:34	
Carbon tetrachloride	ug/L	<0.17	1.0	12/26/19 08:34	
Chlorobenzene	ug/L	<0.71	2.4	12/26/19 08:34	
Chloroethane	ug/L	<1.3	5.0	12/26/19 08:34	
Chloroform	ug/L	<1.3	5.0	12/26/19 08:34	
Chloromethane	ug/L	<2.2	7.3	12/26/19 08:34	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	12/26/19 08:34	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	12/26/19 08:34	
Dibromochloromethane	ug/L	<2.6	8.7	12/26/19 08:34	
Dibromomethane	ug/L	<0.94	3.1	12/26/19 08:34	
Dichlorodifluoromethane	ug/L	<0.50	5.0	12/26/19 08:34	
Diisopropyl ether	ug/L	<1.9	6.3	12/26/19 08:34	
Ethylbenzene	ug/L	<0.22	1.0	12/26/19 08:34	

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QUALITY CONTROL DATA

Project: 20.0155935.01 T.4 TRENT TUBE
Pace Project No.: 40201206

METHOD BLANK: 1998487 Matrix: Water
Associated Lab Samples: 40201206006, 40201206007, 40201206008, 40201206009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	12/26/19 08:34	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	12/26/19 08:34	
m&p-Xylene	ug/L	<0.47	2.0	12/26/19 08:34	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	12/26/19 08:34	
Methylene Chloride	ug/L	<0.58	5.0	12/26/19 08:34	
n-Butylbenzene	ug/L	<0.71	2.4	12/26/19 08:34	
n-Propylbenzene	ug/L	<0.81	5.0	12/26/19 08:34	
Naphthalene	ug/L	<1.2	5.0	12/26/19 08:34	
o-Xylene	ug/L	<0.26	1.0	12/26/19 08:34	
p-Isopropyltoluene	ug/L	<0.80	2.7	12/26/19 08:34	
sec-Butylbenzene	ug/L	<0.85	5.0	12/26/19 08:34	
Styrene	ug/L	<0.47	1.6	12/26/19 08:34	
tert-Butylbenzene	ug/L	<0.30	1.0	12/26/19 08:34	
Tetrachloroethene	ug/L	<0.33	1.1	12/26/19 08:34	
Toluene	ug/L	<0.17	5.0	12/26/19 08:34	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	12/26/19 08:34	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	12/26/19 08:34	
Trichloroethene	ug/L	<0.26	1.0	12/26/19 08:34	
Trichlorofluoromethane	ug/L	<0.21	1.0	12/26/19 08:34	
Vinyl chloride	ug/L	<0.17	1.0	12/26/19 08:34	
4-Bromofluorobenzene (S)	%	90	70-130	12/26/19 08:34	
Dibromofluoromethane (S)	%	90	70-130	12/26/19 08:34	
Toluene-d8 (S)	%	94	70-130	12/26/19 08:34	

LABORATORY CONTROL SAMPLE: 1998488

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	46.2	92	70-130	
1,1,1,2-Tetrachloroethane	ug/L	50	45.5	91	70-130	
1,1,2-Trichloroethane	ug/L	50	49.8	100	70-130	
1,1-Dichloroethane	ug/L	50	56.7	113	73-150	
1,1-Dichloroethene	ug/L	50	39.0	78	73-138	
1,2,4-Trichlorobenzene	ug/L	50	55.2	110	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	44.1	88	64-129	
1,2-Dibromoethane (EDB)	ug/L	50	51.2	102	70-130	
1,2-Dichlorobenzene	ug/L	50	52.5	105	70-130	
1,2-Dichloroethane	ug/L	50	52.3	105	75-140	
1,2-Dichloropropane	ug/L	50	55.8	112	73-135	
1,3-Dichlorobenzene	ug/L	50	52.4	105	70-130	
1,4-Dichlorobenzene	ug/L	50	51.2	102	70-130	
Benzene	ug/L	50	46.6	93	70-130	
Bromodichloromethane	ug/L	50	50.2	100	70-130	
Bromoform	ug/L	50	51.2	102	68-129	
Bromomethane	ug/L	50	21.7	43	18-159	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0155935.01 T.4 TRENT TUBE

Pace Project No.: 40201206

LABORATORY CONTROL SAMPLE: 1998488

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	44.2	88	70-130	
Chlorobenzene	ug/L	50	53.3	107	70-130	
Chloroethane	ug/L	50	36.7	73	53-147	
Chloroform	ug/L	50	44.5	89	74-136	
Chloromethane	ug/L	50	25.1	50	29-115	
cis-1,2-Dichloroethene	ug/L	50	42.9	86	70-130	
cis-1,3-Dichloropropene	ug/L	50	49.6	99	70-130	
Dibromochloromethane	ug/L	50	53.8	108	70-130	
Dichlorodifluoromethane	ug/L	50	9.7	19	10-130	
Ethylbenzene	ug/L	50	50.4	101	80-124	
Isopropylbenzene (Cumene)	ug/L	50	52.3	105	70-130	
m&p-Xylene	ug/L	100	103	103	70-130	
Methyl-tert-butyl ether	ug/L	50	45.1	90	54-137	
Methylene Chloride	ug/L	50	43.5	87	73-138	
o-Xylene	ug/L	50	50.4	101	70-130	
Styrene	ug/L	50	52.4	105	70-130	
Tetrachloroethene	ug/L	50	55.1	110	70-130	
Toluene	ug/L	50	51.5	103	80-126	
trans-1,2-Dichloroethene	ug/L	50	43.7	87	73-145	
trans-1,3-Dichloropropene	ug/L	50	42.3	85	70-130	
Trichloroethene	ug/L	50	50.6	101	70-130	
Trichlorofluoromethane	ug/L	50	40.7	81	76-147	
Vinyl chloride	ug/L	50	31.2	62	51-120	
4-Bromofluorobenzene (S)	%			94	70-130	
Dibromofluoromethane (S)	%			91	70-130	
Toluene-d8 (S)	%			93	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0155935.01 T.4 TRENT TUBE
Pace Project No.: 40201206

QC Batch:	344149	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
Associated Lab Samples:	40201206001, 40201206002, 40201206003, 40201206004, 40201206005, 40201206006, 40201206007, 40201206008, 40201206009		

METHOD BLANK: 1997887 Matrix: Water
Associated Lab Samples: 40201206001, 40201206002, 40201206003, 40201206004, 40201206005, 40201206006, 40201206007, 40201206008, 40201206009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<0.44	2.0	12/27/19 11:01	

LABORATORY CONTROL SAMPLE: 1997888

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	20.2	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1997889 1997890

Parameter	Units	40201206001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	86.9	100	100	194	186	107	99	90-110	4	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1997891 1997892

Parameter	Units	40201004001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	17.9	100	100	126	127	108	109	90-110	1	15	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0155935.01 T.4 TRENT TUBE
Pace Project No.: 40201206

QC Batch: 344522 Analysis Method: SM 5310C
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 40201206001, 40201206002, 40201206003, 40201206004, 40201206005, 40201206006, 40201206007, 40201206008, 40201206009

METHOD BLANK: 1999300 Matrix: Water
Associated Lab Samples: 40201206001, 40201206002, 40201206003, 40201206004, 40201206005, 40201206006, 40201206007, 40201206008, 40201206009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<0.15	0.50	12/30/19 12:00	

LABORATORY CONTROL SAMPLE: 1999301

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	2.5	2.6	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1999302 1999303

Parameter	Units	40201130001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Total Organic Carbon	mg/L	3.6	1	1	4.6	4.6	104	102	80-120	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1999304 1999305

Parameter	Units	40201206001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Total Organic Carbon	mg/L	16.4	10	10	26.5	26.5	100	101	80-120	0	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 20.0155935.01 T.4 TRENT TUBE

Pace Project No.: 40201206

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 20.0155935.01 T.4 TRENT TUBE

Pace Project No.: 40201206

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40201206001	OP-14	EPA 8015B Modified	344541		
40201206002	MW-42	EPA 8015B Modified	344541		
40201206003	MW-41	EPA 8015B Modified	344541		
40201206004	MW-4	EPA 8015B Modified	344541		
40201206005	MW38	EPA 8015B Modified	344541		
40201206006	MW-2	EPA 8015B Modified	344541		
40201206007	MW-1R	EPA 8015B Modified	344541		
40201206008	MW-18R	EPA 8015B Modified	344541		
40201206009	DUP-1	EPA 8015B Modified	344541		
40201206001	OP-14	EPA 6010	344457		
40201206002	MW-42	EPA 6010	344457		
40201206003	MW-41	EPA 6010	344457		
40201206004	MW-4	EPA 6010	344457		
40201206005	MW38	EPA 6010	344457		
40201206006	MW-2	EPA 6010	344457		
40201206007	MW-1R	EPA 6010	344457		
40201206008	MW-18R	EPA 6010	344457		
40201206009	DUP-1	EPA 6010	344457		
40201206001	OP-14	EPA 8260	344227		
40201206002	MW-42	EPA 8260	344227		
40201206003	MW-41	EPA 8260	344227		
40201206004	MW-4	EPA 8260	344227		
40201206005	MW38	EPA 8260	344105		
40201206006	MW-2	EPA 8260	344309		
40201206007	MW-1R	EPA 8260	344309		
40201206008	MW-18R	EPA 8260	344309		
40201206009	DUP-1	EPA 8260	344309		
40201206010	TRIP	EPA 8260	344088		
40201206001	OP-14	EPA 300.0	344149		
40201206002	MW-42	EPA 300.0	344149		
40201206003	MW-41	EPA 300.0	344149		
40201206004	MW-4	EPA 300.0	344149		
40201206005	MW38	EPA 300.0	344149		
40201206006	MW-2	EPA 300.0	344149		
40201206007	MW-1R	EPA 300.0	344149		
40201206008	MW-18R	EPA 300.0	344149		
40201206009	DUP-1	EPA 300.0	344149		
40201206001	OP-14	SM 5310C	344522		
40201206002	MW-42	SM 5310C	344522		
40201206003	MW-41	SM 5310C	344522		
40201206004	MW-4	SM 5310C	344522		
40201206005	MW38	SM 5310C	344522		
40201206006	MW-2	SM 5310C	344522		
40201206007	MW-1R	SM 5310C	344522		
40201206008	MW-18R	SM 5310C	344522		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 20.0155935.01 T.4 TRENT TUBE

Pace Project No.: 40201206

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40201206009	DUP-1	SM 5310C	344522		

REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: GZA GeoEnvironmental

Branch/Location: Brookfield

Project Contact: Kevin Hedinger

Phone: 262-424-1761

Project Number: 20.0155935.01 Task 0004

Project Name: Trent Tube

Project State: WI

Sampled By (Print): Alex Amankyan

Sampled By (Sign): [Signature]

PO #: [Blank]

Regulatory Program: [Blank]

Data Package Options

EPA Level III

EPA Level IV

On your sample (billable)

NOT needed on your sample

your sample

A = Air
B = Biota
C = Charcoal
O = Oil
S = Soil
SI = Sludge

W = Water
DW = Drinking Water
GW = Ground Water
SW = Surface Water
WW = Waste Water
WP = Wipe

Matrix Codes

DATE

TIME

MATRIX

COLLECTION

DATE

TIME

MATRIX

COLLECTION

DATE

TIME

MATRIX

COLLECTION

DATE

TIME

MATRIX

COLLECTION

DATE

TIME

MATRIX

COLLECTION

DATE

TIME

MATRIX

COLLECTION

FILTERED? (YES/NO)

PRESERVATION (CODE)*



CHAIN OF CUSTODY

A=None B=HCL C=H2SO4 D=HNO3 E=DI Water F=Methanol G=NaOH
H= Sodium Bisulfate Solution I= Sodium Thiosulfate J=Other

UPPER MIDWEST REGION
MN: 612-607-1700 WI: 920-469-2436

COC No. 40201204

Y/N	Pick Letter	VOC	Dissolved Iron	Methane, Ethane, Ethene	Sulfate	TOC
N	B	X	X	X	X	X
Y	D					
N	B					
N	A					
N	C					

Analyses Requested	Y/N	Pick Letter
VOC	N	B
Dissolved Iron	Y	D
Methane, Ethane, Ethene	N	B
Sulfate	N	A
TOC	N	C

PAGE LAB #	CLIENT FIELD ID	DATE	TIME	MATRIX	RELINQUISHED BY	DATE/TIME	RECEIVED BY	DATE/TIME	LAB COMMENTS (Lab Use Only)	PROFILE #
001	01-14	12/19/14	0841	GW	[Signature]	12/19/14 0820	[Signature]	12/19/14 12:30		
002	MW-42		1033	GW	[Signature]	12/19/14 1530	[Signature]	12/21/14 0825		
003	MW-41		0957	GW	[Signature]	12/19/14 0825	[Signature]	12/21/14 0825		
004	MW-4		0924	GW	[Signature]	12/19/14 0825	[Signature]	12/21/14 0825		
005	MW-38		1107	GW	[Signature]	12/19/14 0825	[Signature]	12/21/14 0825		
006	MW-2		1252	GW	[Signature]	12/19/14 0825	[Signature]	12/21/14 0825		
007	MW-1R		1222	GW	[Signature]	12/19/14 0825	[Signature]	12/21/14 0825		
008	MW-18R		1140	GW	[Signature]	12/19/14 0825	[Signature]	12/21/14 0825		
009	D20-1		-	GW	[Signature]	12/19/14 0825	[Signature]	12/21/14 0825		
010	Trip		-	-	[Signature]	12/19/14 0825	[Signature]	12/21/14 0825		

MWD

Rush Turnaround Time Requested - Prelims
(Rush TAT subject to approval/surcharge)
Date Needed:

Relinquished By: [Signature]
Date/Time: 12/19/14 0820

Received By: [Signature]
Date/Time: 12/19/14 12:30

PACE Project No. 40201204

Transmit Prelim Rush Results by (complete what you want):

Relinquished By: [Signature]
Date/Time: 12/19/14 0825

Received By: [Signature]
Date/Time: 12/21/14 0825

Receipt Temp = 2.0 °C

Email #1:

Relinquished By: [Signature]
Date/Time: 12/19/14 0825

Received By: [Signature]
Date/Time: 12/21/14 0825

Sample Receipt pH OK / Adjusted

Telephone:

Relinquished By: [Signature]
Date/Time: 12/19/14 0825

Received By: [Signature]
Date/Time: 12/21/14 0825

Cooler Custody Seal Present / Not Present Intact / Not Intact

Sample Preservation Receipt Form

Client Name: GZF Green Bay, WI

Project # 10201206

Date: 10/20/2016

All containers needing preservation have been checked and noted below. Yes No N/A

Lab Lot# of pH paper: 105271

Lab Std #ID of preservation (if pH adjusted):

Initial when completed: BR

Date/Time:


Page Analytical Services, LLC
1241 Bellevue Street, Suite 95
Green Bay, WI 54302
Page 5 of 5

Pace Lab #	Glass	Plastic	Vials	Jars	General	VOA Vials (>6mm) *	H2SO4 pH ≤2	NaOH+Zn Act pH ≥9	NaOH pH ≥12	HNO3 pH ≤2	pH after adjusted	Volume (mL)
001	AG1U											2.5 / 5 / 10
002	AG1H											2.5 / 5 / 10
003	AG4S											2.5 / 5 / 10
004	AG4U											2.5 / 5 / 10
005	AG5U											2.5 / 5 / 10
006	AG2S											2.5 / 5 / 10
007	BG3U											2.5 / 5 / 10
008	BP1U											2.5 / 5 / 10
009	BP2N											2.5 / 5 / 10
010	BP2Z											2.5 / 5 / 10
011	BP3U											2.5 / 5 / 10
012	BP3B											2.5 / 5 / 10
013	BP3N											2.5 / 5 / 10
014	BP3S											2.5 / 5 / 10
015	DG9A											2.5 / 5 / 10
016	DG9T											2.5 / 5 / 10
017	VG9U											2.5 / 5 / 10
018	VG9H											2.5 / 5 / 10
019	VG9M											2.5 / 5 / 10
020	VG9D											2.5 / 5 / 10

Exceptions to preservation check: NO Coliform, TOC, TOX, TOH, O&G, WIDRO, Phenolics, Other: _____

Headspace in VOA Vials (>6mm): Yes No N/A *If yes look in headspace column

AG1U	AG1H	AG4S	AG4U	AG5U	AG2S	BG3U	BP1U	BP2N	BP2Z	BP3U	BP3B	BP3N	BP3S	DG9A	DG9T	VG9U	VG9H	VG9M	VG9D	JGFU	WGFU	WPFU	SP5T	ZPLC	GN:
1 liter amber glass	1 liter amber glass HCL	125 ml amber glass H2SO4	120 ml amber glass unpres	100 ml amber glass unpres	500 ml amber glass H2SO4	250 ml clear glass unpres	1 liter plastic unpres	500 ml plastic HNO3	500 ml plastic NaOH, Znact	250 ml plastic unpres	250 ml plastic NaOH	250 ml plastic HNO3	250 ml plastic H2SO4	40 ml amber ascorbic	40 ml amber Na Thio	40 ml clear vial unpres	40 ml clear vial HCL	40 ml clear vial MeOH	40 ml clear vial DI	4 oz amber jar unpres	4 oz clear jar unpres	4 oz plastic jar unpres	120 ml plastic Na Thiosulfate	ziploc bag	GN:

 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 25Apr2018
	Document No.: F-GB-C-031-Rev.07	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: GZA Environmental
Courier: CS Logistics Fed Ex Speedee UPS Walco
 Client Pace Other: _____

Project #: _____

WO#: 40201206



Tracking #: _____
Custody Seal on Cooler/Box Present: yes no **Seals intact:** yes no
Custody Seal on Samples Present: yes no **Seals intact:** yes no
Packing Material: Bubble Wrap Bubble Bags None Other
Thermometer Used SR - 93 **Type of Ice:** Wet Blue Dry None
Cooler Temperature Uncorr: 2.0 / ICorr: 2.0
Temp Blank Present: yes no **Biological Tissue is Frozen:** yes no

Samples on ice, cooling process has begun

Temp should be above freezing to 6°C.
Biota Samples may be received at ≤ 0°C.

Person examining contents:
 Date: 12-25-19
 Initials: BA

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time: _____
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>438</u>		

Client Notification/ Resolution: _____
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

If checked, see attached form for additional comments

Project Manager Review: BA **Date:** 12/23/19

January 31, 2020

Kevin Hedinger
GZA
17975 West Sarah Lane
Suite 100
Brookfield, WI 53045

RE: Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40202467

Dear Kevin Hedinger:

Enclosed are the analytical results for sample(s) received by the laboratory on January 24, 2020. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40202467

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40202467

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40202467001	MW-1R	Water	01/22/20 13:13	01/24/20 08:35
40202467002	MW-2	Water	01/22/20 12:45	01/24/20 08:35
40202467003	MW-4	Water	01/22/20 10:01	01/24/20 08:35
40202467004	MW-18R	Water	01/22/20 12:03	01/24/20 08:35
40202467005	MW-38	Water	01/22/20 11:33	01/24/20 08:35
40202467006	MW-41	Water	01/22/20 10:32	01/24/20 08:35
40202467007	MW-42	Water	01/22/20 11:01	01/24/20 08:35
40202467008	OP-14	Water	01/22/20 09:21	01/24/20 08:35
40202467009	DUP-1	Water	01/22/20 00:00	01/24/20 08:35
40202467010	TRIP	Water	01/22/20 00:00	01/24/20 08:35

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40202467

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40202467001	MW-1R	EPA 8015B Modified	ALD	3	PASI-G
		EPA 6010	TXW	1	PASI-G
		EPA 8260	HNW	64	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40202467002	MW-2	EPA 8015B Modified	ALD	3	PASI-G
		EPA 6010	TXW	1	PASI-G
		EPA 8260	HNW	64	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40202467003	MW-4	EPA 8015B Modified	ALD	3	PASI-G
		EPA 6010	TXW	1	PASI-G
		EPA 8260	HNW	64	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40202467004	MW-18R	EPA 8015B Modified	ALD	3	PASI-G
		EPA 6010	TXW	1	PASI-G
		EPA 8260	HNW	64	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40202467005	MW-38	EPA 8015B Modified	ALD	3	PASI-G
		EPA 6010	TXW	1	PASI-G
		EPA 8260	HNW	64	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40202467006	MW-41	EPA 8015B Modified	ALD	3	PASI-G
		EPA 6010	TXW	1	PASI-G
		EPA 8260	HNW	64	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40202467007	MW-42	EPA 8015B Modified	ALD	3	PASI-G
		EPA 6010	TXW	1	PASI-G
		EPA 8260	HNW	64	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40202467008	OP-14	EPA 8015B Modified	ALD	3	PASI-G
		EPA 6010	TXW	1	PASI-G

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40202467

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40202467009	DUP-1	EPA 8260	HNW	64	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
		EPA 8015B Modified	ALD	3	PASI-G
		EPA 6010	TXW	1	PASI-G
		EPA 8260	HNW	64	PASI-G
		EPA 300.0	HMB	1	PASI-G
40202467010	TRIP	SM 5310C	TJJ	1	PASI-G
		EPA 8260	HNW	64	PASI-G

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40202467

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
40202467001	MW-1R					
EPA 8260	1,1,1-Trichloroethane	1.4	ug/L	1.0	01/30/20 20:09	
EPA 8260	1,1-Dichloroethane	0.34J	ug/L	1.0	01/30/20 20:09	
EPA 300.0	Sulfate	177	mg/L	40.0	01/27/20 13:29	
SM 5310C	Total Organic Carbon	2.7	mg/L	1.0	01/29/20 16:14	
40202467002	MW-2					
EPA 8015B Modified	Methane	1.2J	ug/L	2.8	01/29/20 08:13	
EPA 6010	Iron, Dissolved	996	ug/L	100	01/27/20 15:43	
EPA 8260	1,1,1-Trichloroethane	3.2J	ug/L	5.0	01/31/20 08:54	
EPA 8260	1,1-Dichloroethane	5.0J	ug/L	5.0	01/31/20 08:54	
EPA 8260	Methylene Chloride	2.9J	ug/L	25.0	01/31/20 08:54	
EPA 8260	Trichloroethene	13.2	ug/L	5.0	01/31/20 08:54	
EPA 8260	Vinyl chloride	27.2	ug/L	5.0	01/31/20 08:54	
EPA 8260	cis-1,2-Dichloroethene	669	ug/L	5.0	01/31/20 08:54	
EPA 300.0	Sulfate	13.8	mg/L	10.0	01/27/20 14:09	
SM 5310C	Total Organic Carbon	275	mg/L	50.0	01/30/20 08:19	
40202467003	MW-4					
EPA 8260	1,1,1-Trichloroethane	2.6	ug/L	1.0	01/31/20 08:32	
EPA 8260	1,1-Dichloroethane	1.6	ug/L	1.0	01/31/20 08:32	
EPA 8260	Tetrachloroethene	2.4	ug/L	1.1	01/31/20 08:32	
EPA 8260	Trichloroethene	111	ug/L	1.0	01/31/20 08:32	
EPA 8260	cis-1,2-Dichloroethene	4.5	ug/L	1.0	01/31/20 08:32	
EPA 300.0	Sulfate	26.9	mg/L	10.0	01/27/20 15:02	
SM 5310C	Total Organic Carbon	2.4	mg/L	1.0	01/30/20 08:39	
40202467004	MW-18R					
EPA 8015B Modified	Methane	761	ug/L	14.0	01/29/20 09:08	
EPA 8260	Trichloroethene	3530	ug/L	20.0	01/30/20 22:02	
EPA 8260	Vinyl chloride	22.3	ug/L	20.0	01/30/20 22:02	
EPA 8260	cis-1,2-Dichloroethene	888	ug/L	20.0	01/30/20 22:02	
EPA 8260	trans-1,2-Dichloroethene	40.8J	ug/L	72.7	01/30/20 22:02	
EPA 300.0	Sulfate	75.6	mg/L	10.0	01/27/20 15:15	
SM 5310C	Total Organic Carbon	2.0	mg/L	0.50	01/30/20 09:00	
40202467005	MW-38					
EPA 300.0	Sulfate	91.2	mg/L	10.0	01/27/20 15:28	
SM 5310C	Total Organic Carbon	1.5	mg/L	0.50	01/30/20 09:21	
40202467006	MW-41					
EPA 8260	1,1,1-Trichloroethane	2.3	ug/L	1.0	01/30/20 20:54	
EPA 8260	1,1-Dichloroethane	1.1	ug/L	1.0	01/30/20 20:54	
EPA 8260	Tetrachloroethene	1.1J	ug/L	1.1	01/30/20 20:54	
EPA 8260	Trichloroethene	77.1	ug/L	1.0	01/30/20 20:54	
EPA 8260	cis-1,2-Dichloroethene	1.3	ug/L	1.0	01/30/20 20:54	
EPA 300.0	Sulfate	33.7	mg/L	10.0	01/27/20 15:41	
SM 5310C	Total Organic Carbon	2.3	mg/L	1.5	01/30/20 09:42	
40202467007	MW-42					
EPA 8015B Modified	Methane	114	ug/L	2.8	01/29/20 08:48	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40202467

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
40202467007	MW-42					
EPA 6010	Iron, Dissolved	51800	ug/L	100	01/27/20 15:55	
EPA 8260	1,1,1-Trichloroethane	3.9J	ug/L	5.0	01/31/20 09:17	
EPA 8260	1,1-Dichloroethane	14.1	ug/L	5.0	01/31/20 09:17	
EPA 8260	1,1-Dichloroethene	3.5J	ug/L	5.0	01/31/20 09:17	
EPA 8260	Trichloroethene	342	ug/L	5.0	01/31/20 09:17	
EPA 8260	Vinyl chloride	2.7J	ug/L	5.0	01/31/20 09:17	
EPA 8260	cis-1,2-Dichloroethene	609	ug/L	5.0	01/31/20 09:17	
SM 5310C	Total Organic Carbon	229	mg/L	50.0	01/30/20 10:03	
40202467008	OP-14					
EPA 6010	Iron, Dissolved	159	ug/L	100	01/27/20 15:57	
EPA 8260	1,1,1-Trichloroethane	1.8J	ug/L	4.0	01/30/20 22:47	
EPA 8260	Tetrachloroethene	5.5	ug/L	4.4	01/30/20 22:47	
EPA 8260	Trichloroethene	325	ug/L	4.0	01/30/20 22:47	
EPA 8260	cis-1,2-Dichloroethene	255	ug/L	4.0	01/30/20 22:47	
EPA 300.0	Sulfate	71.3	mg/L	10.0	01/27/20 16:08	
SM 5310C	Total Organic Carbon	6.9	mg/L	1.5	01/30/20 10:24	
40202467009	DUP-1					
EPA 8015B Modified	Methane	681	ug/L	28.0	01/29/20 09:39	
EPA 6010	Iron, Dissolved	32.5J	ug/L	100	01/27/20 16:05	
EPA 8260	Trichloroethene	3350	ug/L	50.0	01/30/20 23:09	
EPA 8260	Vinyl chloride	27.3J	ug/L	50.0	01/30/20 23:09	
EPA 8260	cis-1,2-Dichloroethene	883	ug/L	50.0	01/30/20 23:09	
EPA 300.0	Sulfate	76.7	mg/L	10.0	01/27/20 16:21	
SM 5310C	Total Organic Carbon	2.0	mg/L	1.0	01/30/20 10:45	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40202467

Sample: MW-1R **Lab ID: 40202467001** Collected: 01/22/20 13:13 Received: 01/24/20 08:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV		Analytical Method: EPA 8015B Modified							
Ethane	<1.2	ug/L	5.6	1.2	1		01/29/20 08:06	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		01/29/20 08:06	74-85-1	
Methane	<0.66	ug/L	2.8	0.66	1		01/29/20 08:06	74-82-8	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	<29.6	ug/L	100	29.6	1		01/27/20 15:36	7439-89-6	
8260 MSV		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		01/30/20 20:09	630-20-6	
1,1,1-Trichloroethane	1.4	ug/L	1.0	0.24	1		01/30/20 20:09	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		01/30/20 20:09	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		01/30/20 20:09	79-00-5	
1,1-Dichloroethane	0.34J	ug/L	1.0	0.27	1		01/30/20 20:09	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		01/30/20 20:09	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		01/30/20 20:09	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		01/30/20 20:09	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		01/30/20 20:09	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		01/30/20 20:09	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		01/30/20 20:09	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		01/30/20 20:09	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		01/30/20 20:09	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		01/30/20 20:09	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		01/30/20 20:09	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		01/30/20 20:09	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		01/30/20 20:09	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		01/30/20 20:09	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		01/30/20 20:09	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		01/30/20 20:09	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		01/30/20 20:09	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		01/30/20 20:09	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		01/30/20 20:09	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		01/30/20 20:09	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		01/30/20 20:09	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		01/30/20 20:09	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		01/30/20 20:09	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		01/30/20 20:09	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		01/30/20 20:09	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		01/30/20 20:09	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		01/30/20 20:09	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		01/30/20 20:09	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		01/30/20 20:09	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		01/30/20 20:09	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		01/30/20 20:09	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		01/30/20 20:09	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		01/30/20 20:09	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		01/30/20 20:09	108-20-3	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40202467

Sample: MW-1R **Lab ID: 40202467001** Collected: 01/22/20 13:13 Received: 01/24/20 08:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		01/30/20 20:09	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		01/30/20 20:09	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		01/30/20 20:09	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		01/30/20 20:09	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		01/30/20 20:09	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		01/30/20 20:09	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		01/30/20 20:09	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		01/30/20 20:09	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		01/30/20 20:09	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		01/30/20 20:09	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		01/30/20 20:09	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		01/30/20 20:09	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		01/30/20 20:09	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		01/30/20 20:09	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		01/30/20 20:09	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		01/30/20 20:09	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		01/30/20 20:09	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		01/30/20 20:09	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		01/30/20 20:09	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		01/30/20 20:09	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		01/30/20 20:09	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		01/30/20 20:09	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		01/30/20 20:09	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		01/30/20 20:09	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		01/30/20 20:09	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		01/30/20 20:09	2037-26-5	
300.0 IC Anions Analytical Method: EPA 300.0									
Sulfate	177	mg/L	40.0	8.9	20		01/27/20 13:29	14808-79-8	
5310C TOC Analytical Method: SM 5310C									
Total Organic Carbon	2.7	mg/L	1.0	0.30	2		01/29/20 16:14	7440-44-0	

Sample: MW-2 **Lab ID: 40202467002** Collected: 01/22/20 12:45 Received: 01/24/20 08:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Ethane	<1.2	ug/L	5.6	1.2	1		01/29/20 08:13	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		01/29/20 08:13	74-85-1	
Methane	1.2J	ug/L	2.8	0.66	1		01/29/20 08:13	74-82-8	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40202467

Sample: MW-2 **Lab ID: 40202467002** Collected: 01/22/20 12:45 Received: 01/24/20 08:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	996	ug/L	100	29.6	1		01/27/20 15:43	7439-89-6	
8260 MSV		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	< 1.3	ug/L	5.0	1.3	5		01/31/20 08:54	630-20-6	
1,1,1-Trichloroethane	3.2J	ug/L	5.0	1.2	5		01/31/20 08:54	71-55-6	
1,1,2,2-Tetrachloroethane	< 1.4	ug/L	5.0	1.4	5		01/31/20 08:54	79-34-5	
1,1,2-Trichloroethane	< 2.8	ug/L	25.0	2.8	5		01/31/20 08:54	79-00-5	
1,1-Dichloroethane	5.0J	ug/L	5.0	1.4	5		01/31/20 08:54	75-34-3	
1,1-Dichloroethene	< 1.2	ug/L	5.0	1.2	5		01/31/20 08:54	75-35-4	
1,1-Dichloropropene	< 2.7	ug/L	9.0	2.7	5		01/31/20 08:54	563-58-6	
1,2,3-Trichlorobenzene	< 3.1	ug/L	25.0	3.1	5		01/31/20 08:54	87-61-6	
1,2,3-Trichloropropane	< 3.0	ug/L	25.0	3.0	5		01/31/20 08:54	96-18-4	
1,2,4-Trichlorobenzene	< 4.8	ug/L	25.0	4.8	5		01/31/20 08:54	120-82-1	
1,2,4-Trimethylbenzene	< 4.2	ug/L	14.0	4.2	5		01/31/20 08:54	95-63-6	
1,2-Dibromo-3-chloropropane	< 8.8	ug/L	29.4	8.8	5		01/31/20 08:54	96-12-8	
1,2-Dibromoethane (EDB)	< 4.1	ug/L	13.8	4.1	5		01/31/20 08:54	106-93-4	
1,2-Dichlorobenzene	< 3.5	ug/L	11.8	3.5	5		01/31/20 08:54	95-50-1	
1,2-Dichloroethane	< 1.4	ug/L	5.0	1.4	5		01/31/20 08:54	107-06-2	
1,2-Dichloropropane	< 1.4	ug/L	5.0	1.4	5		01/31/20 08:54	78-87-5	
1,3,5-Trimethylbenzene	< 4.4	ug/L	14.6	4.4	5		01/31/20 08:54	108-67-8	
1,3-Dichlorobenzene	< 3.1	ug/L	10.5	3.1	5		01/31/20 08:54	541-73-1	
1,3-Dichloropropane	< 4.1	ug/L	13.8	4.1	5		01/31/20 08:54	142-28-9	
1,4-Dichlorobenzene	< 4.7	ug/L	15.7	4.7	5		01/31/20 08:54	106-46-7	
2,2-Dichloropropane	< 11.3	ug/L	37.8	11.3	5		01/31/20 08:54	594-20-7	
2-Chlorotoluene	< 4.6	ug/L	25.0	4.6	5		01/31/20 08:54	95-49-8	
4-Chlorotoluene	< 3.8	ug/L	12.6	3.8	5		01/31/20 08:54	106-43-4	
Benzene	< 1.2	ug/L	5.0	1.2	5		01/31/20 08:54	71-43-2	
Bromobenzene	< 1.2	ug/L	5.0	1.2	5		01/31/20 08:54	108-86-1	
Bromochloromethane	< 1.8	ug/L	25.0	1.8	5		01/31/20 08:54	74-97-5	
Bromodichloromethane	< 1.8	ug/L	6.1	1.8	5		01/31/20 08:54	75-27-4	
Bromoform	< 19.9	ug/L	66.2	19.9	5		01/31/20 08:54	75-25-2	
Bromomethane	< 4.9	ug/L	25.0	4.9	5		01/31/20 08:54	74-83-9	
Carbon tetrachloride	< 0.83	ug/L	5.0	0.83	5		01/31/20 08:54	56-23-5	
Chlorobenzene	< 3.6	ug/L	11.8	3.6	5		01/31/20 08:54	108-90-7	
Chloroethane	< 6.7	ug/L	25.0	6.7	5		01/31/20 08:54	75-00-3	
Chloroform	< 6.4	ug/L	25.0	6.4	5		01/31/20 08:54	67-66-3	
Chloromethane	< 10.9	ug/L	36.5	10.9	5		01/31/20 08:54	74-87-3	
Dibromochloromethane	< 13.0	ug/L	43.4	13.0	5		01/31/20 08:54	124-48-1	
Dibromomethane	< 4.7	ug/L	15.6	4.7	5		01/31/20 08:54	74-95-3	
Dichlorodifluoromethane	< 2.5	ug/L	25.0	2.5	5		01/31/20 08:54	75-71-8	
Diisopropyl ether	< 9.4	ug/L	31.5	9.4	5		01/31/20 08:54	108-20-3	
Ethylbenzene	< 1.1	ug/L	5.0	1.1	5		01/31/20 08:54	100-41-4	
Hexachloro-1,3-butadiene	< 5.9	ug/L	25.0	5.9	5		01/31/20 08:54	87-68-3	
Isopropylbenzene (Cumene)	< 2.0	ug/L	25.0	2.0	5		01/31/20 08:54	98-82-8	
Methyl-tert-butyl ether	< 6.2	ug/L	20.8	6.2	5		01/31/20 08:54	1634-04-4	
Methylene Chloride	2.9J	ug/L	25.0	2.9	5		01/31/20 08:54	75-09-2	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40202467

Sample: MW-2 **Lab ID: 40202467002** Collected: 01/22/20 12:45 Received: 01/24/20 08:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Naphthalene	<5.9	ug/L	25.0	5.9	5		01/31/20 08:54	91-20-3	
Styrene	<2.3	ug/L	7.8	2.3	5		01/31/20 08:54	100-42-5	
Tetrachloroethene	<1.6	ug/L	5.4	1.6	5		01/31/20 08:54	127-18-4	
Toluene	<0.86	ug/L	25.0	0.86	5		01/31/20 08:54	108-88-3	
Trichloroethene	13.2	ug/L	5.0	1.3	5		01/31/20 08:54	79-01-6	
Trichlorofluoromethane	<1.1	ug/L	5.0	1.1	5		01/31/20 08:54	75-69-4	
Vinyl chloride	27.2	ug/L	5.0	0.87	5		01/31/20 08:54	75-01-4	
cis-1,2-Dichloroethene	669	ug/L	5.0	1.4	5		01/31/20 08:54	156-59-2	
cis-1,3-Dichloropropene	<18.1	ug/L	60.5	18.1	5		01/31/20 08:54	10061-01-5	
m&p-Xylene	<2.3	ug/L	10.0	2.3	5		01/31/20 08:54	179601-23-1	
n-Butylbenzene	<3.5	ug/L	11.8	3.5	5		01/31/20 08:54	104-51-8	
n-Propylbenzene	<4.1	ug/L	25.0	4.1	5		01/31/20 08:54	103-65-1	
o-Xylene	<1.3	ug/L	5.0	1.3	5		01/31/20 08:54	95-47-6	
p-Isopropyltoluene	<4.0	ug/L	13.3	4.0	5		01/31/20 08:54	99-87-6	
sec-Butylbenzene	<4.2	ug/L	25.0	4.2	5		01/31/20 08:54	135-98-8	
tert-Butylbenzene	<1.5	ug/L	5.1	1.5	5		01/31/20 08:54	98-06-6	
trans-1,2-Dichloroethene	<5.5	ug/L	18.2	5.5	5		01/31/20 08:54	156-60-5	
trans-1,3-Dichloropropene	<21.9	ug/L	72.8	21.9	5		01/31/20 08:54	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		5		01/31/20 08:54	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		5		01/31/20 08:54	1868-53-7	
Toluene-d8 (S)	102	%	70-130		5		01/31/20 08:54	2037-26-5	
300.0 IC Anions Analytical Method: EPA 300.0									
Sulfate	13.8	mg/L	10.0	2.2	5		01/27/20 14:09	14808-79-8	
5310C TOC Analytical Method: SM 5310C									
Total Organic Carbon	275	mg/L	50.0	14.9	100		01/30/20 08:19	7440-44-0	

Sample: MW-4 **Lab ID: 40202467003** Collected: 01/22/20 10:01 Received: 01/24/20 08:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Ethane	<1.2	ug/L	5.6	1.2	1		01/29/20 08:20	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		01/29/20 08:20	74-85-1	
Methane	<0.66	ug/L	2.8	0.66	1		01/29/20 08:20	74-82-8	
6010 MET ICP, Dissolved Analytical Method: EPA 6010									
Iron, Dissolved	<29.6	ug/L	100	29.6	1		01/27/20 15:45	7439-89-6	
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		01/31/20 08:32	630-20-6	
1,1,1-Trichloroethane	2.6	ug/L	1.0	0.24	1		01/31/20 08:32	71-55-6	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40202467

Sample: MW-4 **Lab ID: 40202467003** Collected: 01/22/20 10:01 Received: 01/24/20 08:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		01/31/20 08:32	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		01/31/20 08:32	79-00-5	
1,1-Dichloroethane	1.6	ug/L	1.0	0.27	1		01/31/20 08:32	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		01/31/20 08:32	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		01/31/20 08:32	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		01/31/20 08:32	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		01/31/20 08:32	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		01/31/20 08:32	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		01/31/20 08:32	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		01/31/20 08:32	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		01/31/20 08:32	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		01/31/20 08:32	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		01/31/20 08:32	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		01/31/20 08:32	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		01/31/20 08:32	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		01/31/20 08:32	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		01/31/20 08:32	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		01/31/20 08:32	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		01/31/20 08:32	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		01/31/20 08:32	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		01/31/20 08:32	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		01/31/20 08:32	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		01/31/20 08:32	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		01/31/20 08:32	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		01/31/20 08:32	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		01/31/20 08:32	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		01/31/20 08:32	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		01/31/20 08:32	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		01/31/20 08:32	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		01/31/20 08:32	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		01/31/20 08:32	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		01/31/20 08:32	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		01/31/20 08:32	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		01/31/20 08:32	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		01/31/20 08:32	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		01/31/20 08:32	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		01/31/20 08:32	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		01/31/20 08:32	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		01/31/20 08:32	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		01/31/20 08:32	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		01/31/20 08:32	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		01/31/20 08:32	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		01/31/20 08:32	100-42-5	
Tetrachloroethene	2.4	ug/L	1.1	0.33	1		01/31/20 08:32	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		01/31/20 08:32	108-88-3	
Trichloroethene	111	ug/L	1.0	0.26	1		01/31/20 08:32	79-01-6	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40202467

Sample: MW-4 **Lab ID: 40202467003** Collected: 01/22/20 10:01 Received: 01/24/20 08:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		01/31/20 08:32	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		01/31/20 08:32	75-01-4	
cis-1,2-Dichloroethene	4.5	ug/L	1.0	0.27	1		01/31/20 08:32	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		01/31/20 08:32	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		01/31/20 08:32	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		01/31/20 08:32	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		01/31/20 08:32	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		01/31/20 08:32	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		01/31/20 08:32	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		01/31/20 08:32	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		01/31/20 08:32	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		01/31/20 08:32	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		01/31/20 08:32	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		01/31/20 08:32	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		1		01/31/20 08:32	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		01/31/20 08:32	2037-26-5	
300.0 IC Anions Analytical Method: EPA 300.0									
Sulfate	26.9	mg/L	10.0	2.2	5		01/27/20 15:02	14808-79-8	
5310C TOC Analytical Method: SM 5310C									
Total Organic Carbon	2.4	mg/L	1.0	0.30	2		01/30/20 08:39	7440-44-0	

Sample: MW-18R **Lab ID: 40202467004** Collected: 01/22/20 12:03 Received: 01/24/20 08:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Ethane	<1.2	ug/L	5.6	1.2	1		01/29/20 08:27	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		01/29/20 08:27	74-85-1	
Methane	761	ug/L	14.0	3.3	5		01/29/20 09:08	74-82-8	
6010 MET ICP, Dissolved Analytical Method: EPA 6010									
Iron, Dissolved	<29.6	ug/L	100	29.6	1		01/27/20 15:48	7439-89-6	
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<5.4	ug/L	20.0	5.4	20		01/30/20 22:02	630-20-6	
1,1,1-Trichloroethane	<4.9	ug/L	20.0	4.9	20		01/30/20 22:02	71-55-6	
1,1,2,2-Tetrachloroethane	<5.5	ug/L	20.0	5.5	20		01/30/20 22:02	79-34-5	
1,1,2-Trichloroethane	<11.0	ug/L	100	11.0	20		01/30/20 22:02	79-00-5	
1,1-Dichloroethane	<5.5	ug/L	20.0	5.5	20		01/30/20 22:02	75-34-3	
1,1-Dichloroethene	<4.9	ug/L	20.0	4.9	20		01/30/20 22:02	75-35-4	
1,1-Dichloropropene	<10.8	ug/L	36.0	10.8	20		01/30/20 22:02	563-58-6	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40202467

Sample: MW-18R **Lab ID: 40202467004** Collected: 01/22/20 12:03 Received: 01/24/20 08:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,2,3-Trichlorobenzene	<12.5	ug/L	100	12.5	20		01/30/20 22:02	87-61-6	
1,2,3-Trichloropropane	<11.8	ug/L	100	11.8	20		01/30/20 22:02	96-18-4	
1,2,4-Trichlorobenzene	<19.0	ug/L	100	19.0	20		01/30/20 22:02	120-82-1	
1,2,4-Trimethylbenzene	<16.8	ug/L	56.0	16.8	20		01/30/20 22:02	95-63-6	
1,2-Dibromo-3-chloropropane	<35.3	ug/L	118	35.3	20		01/30/20 22:02	96-12-8	
1,2-Dibromoethane (EDB)	<16.6	ug/L	55.3	16.6	20		01/30/20 22:02	106-93-4	
1,2-Dichlorobenzene	<14.1	ug/L	47.0	14.1	20		01/30/20 22:02	95-50-1	
1,2-Dichloroethane	<5.6	ug/L	20.0	5.6	20		01/30/20 22:02	107-06-2	
1,2-Dichloropropane	<5.7	ug/L	20.0	5.7	20		01/30/20 22:02	78-87-5	
1,3,5-Trimethylbenzene	<17.5	ug/L	58.2	17.5	20		01/30/20 22:02	108-67-8	
1,3-Dichlorobenzene	<12.6	ug/L	41.9	12.6	20		01/30/20 22:02	541-73-1	
1,3-Dichloropropane	<16.5	ug/L	55.1	16.5	20		01/30/20 22:02	142-28-9	
1,4-Dichlorobenzene	<18.9	ug/L	62.9	18.9	20		01/30/20 22:02	106-46-7	
2,2-Dichloropropane	<45.3	ug/L	151	45.3	20		01/30/20 22:02	594-20-7	
2-Chlorotoluene	<18.5	ug/L	100	18.5	20		01/30/20 22:02	95-49-8	
4-Chlorotoluene	<15.1	ug/L	50.4	15.1	20		01/30/20 22:02	106-43-4	
Benzene	<4.9	ug/L	20.0	4.9	20		01/30/20 22:02	71-43-2	
Bromobenzene	<4.8	ug/L	20.0	4.8	20		01/30/20 22:02	108-86-1	
Bromochloromethane	<7.2	ug/L	100	7.2	20		01/30/20 22:02	74-97-5	
Bromodichloromethane	<7.3	ug/L	24.2	7.3	20		01/30/20 22:02	75-27-4	
Bromoform	<79.4	ug/L	265	79.4	20		01/30/20 22:02	75-25-2	
Bromomethane	<19.4	ug/L	100	19.4	20		01/30/20 22:02	74-83-9	
Carbon tetrachloride	<3.3	ug/L	20.0	3.3	20		01/30/20 22:02	56-23-5	
Chlorobenzene	<14.2	ug/L	47.4	14.2	20		01/30/20 22:02	108-90-7	
Chloroethane	<26.8	ug/L	100	26.8	20		01/30/20 22:02	75-00-3	
Chloroform	<25.5	ug/L	100	25.5	20		01/30/20 22:02	67-66-3	
Chloromethane	<43.8	ug/L	146	43.8	20		01/30/20 22:02	74-87-3	
Dibromochloromethane	<52.0	ug/L	173	52.0	20		01/30/20 22:02	124-48-1	
Dibromomethane	<18.7	ug/L	62.5	18.7	20		01/30/20 22:02	74-95-3	
Dichlorodifluoromethane	<10	ug/L	100	10	20		01/30/20 22:02	75-71-8	
Diisopropyl ether	<37.8	ug/L	126	37.8	20		01/30/20 22:02	108-20-3	
Ethylbenzene	<4.4	ug/L	20.0	4.4	20		01/30/20 22:02	100-41-4	
Hexachloro-1,3-butadiene	<23.6	ug/L	100	23.6	20		01/30/20 22:02	87-68-3	
Isopropylbenzene (Cumene)	<7.9	ug/L	100	7.9	20		01/30/20 22:02	98-82-8	
Methyl-tert-butyl ether	<24.9	ug/L	83.1	24.9	20		01/30/20 22:02	1634-04-4	
Methylene Chloride	<11.6	ug/L	100	11.6	20		01/30/20 22:02	75-09-2	
Naphthalene	<23.5	ug/L	100	23.5	20		01/30/20 22:02	91-20-3	
Styrene	<9.3	ug/L	31.0	9.3	20		01/30/20 22:02	100-42-5	
Tetrachloroethene	<6.5	ug/L	21.8	6.5	20		01/30/20 22:02	127-18-4	
Toluene	<3.4	ug/L	100	3.4	20		01/30/20 22:02	108-88-3	
Trichloroethene	3530	ug/L	20.0	5.1	20		01/30/20 22:02	79-01-6	
Trichlorofluoromethane	<4.3	ug/L	20.0	4.3	20		01/30/20 22:02	75-69-4	
Vinyl chloride	22.3	ug/L	20.0	3.5	20		01/30/20 22:02	75-01-4	
cis-1,2-Dichloroethene	888	ug/L	20.0	5.4	20		01/30/20 22:02	156-59-2	
cis-1,3-Dichloropropene	<72.6	ug/L	242	72.6	20		01/30/20 22:02	10061-01-5	
m&p-Xylene	<9.3	ug/L	40.0	9.3	20		01/30/20 22:02	179601-23-1	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40202467

Sample: MW-18R **Lab ID: 40202467004** Collected: 01/22/20 12:03 Received: 01/24/20 08:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
n-Butylbenzene	<14.2	ug/L	47.2	14.2	20		01/30/20 22:02	104-51-8	
n-Propylbenzene	<16.2	ug/L	100	16.2	20		01/30/20 22:02	103-65-1	
o-Xylene	<5.2	ug/L	20.0	5.2	20		01/30/20 22:02	95-47-6	
p-Isopropyltoluene	<16.0	ug/L	53.3	16.0	20		01/30/20 22:02	99-87-6	
sec-Butylbenzene	<17.0	ug/L	100	17.0	20		01/30/20 22:02	135-98-8	
tert-Butylbenzene	<6.1	ug/L	20.3	6.1	20		01/30/20 22:02	98-06-6	
trans-1,2-Dichloroethene	40.8J	ug/L	72.7	21.8	20		01/30/20 22:02	156-60-5	
trans-1,3-Dichloropropene	<87.4	ug/L	291	87.4	20		01/30/20 22:02	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	100	%	70-130		20		01/30/20 22:02	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		20		01/30/20 22:02	1868-53-7	
Toluene-d8 (S)	102	%	70-130		20		01/30/20 22:02	2037-26-5	
300.0 IC Anions Analytical Method: EPA 300.0									
Sulfate	75.6	mg/L	10.0	2.2	5		01/27/20 15:15	14808-79-8	
5310C TOC Analytical Method: SM 5310C									
Total Organic Carbon	2.0	mg/L	0.50	0.15	1		01/30/20 09:00	7440-44-0	

Sample: MW-38 **Lab ID: 40202467005** Collected: 01/22/20 11:33 Received: 01/24/20 08:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Ethane	<1.2	ug/L	5.6	1.2	1		01/29/20 08:34	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		01/29/20 08:34	74-85-1	
Methane	<0.66	ug/L	2.8	0.66	1		01/29/20 08:34	74-82-8	
6010 MET ICP, Dissolved Analytical Method: EPA 6010									
Iron, Dissolved	<29.6	ug/L	100	29.6	1		01/27/20 15:50	7439-89-6	
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		01/30/20 20:32	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		01/30/20 20:32	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		01/30/20 20:32	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		01/30/20 20:32	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		01/30/20 20:32	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		01/30/20 20:32	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		01/30/20 20:32	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		01/30/20 20:32	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		01/30/20 20:32	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		01/30/20 20:32	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		01/30/20 20:32	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		01/30/20 20:32	96-12-8	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40202467

Sample: MW-38 **Lab ID: 40202467005** Collected: 01/22/20 11:33 Received: 01/24/20 08:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		01/30/20 20:32	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		01/30/20 20:32	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		01/30/20 20:32	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		01/30/20 20:32	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		01/30/20 20:32	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		01/30/20 20:32	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		01/30/20 20:32	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		01/30/20 20:32	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		01/30/20 20:32	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		01/30/20 20:32	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		01/30/20 20:32	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		01/30/20 20:32	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		01/30/20 20:32	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		01/30/20 20:32	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		01/30/20 20:32	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		01/30/20 20:32	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		01/30/20 20:32	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		01/30/20 20:32	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		01/30/20 20:32	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		01/30/20 20:32	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		01/30/20 20:32	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		01/30/20 20:32	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		01/30/20 20:32	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		01/30/20 20:32	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		01/30/20 20:32	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		01/30/20 20:32	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		01/30/20 20:32	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		01/30/20 20:32	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		01/30/20 20:32	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		01/30/20 20:32	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		01/30/20 20:32	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		01/30/20 20:32	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		01/30/20 20:32	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		01/30/20 20:32	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		01/30/20 20:32	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		01/30/20 20:32	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		01/30/20 20:32	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		01/30/20 20:32	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		01/30/20 20:32	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		01/30/20 20:32	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		01/30/20 20:32	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		01/30/20 20:32	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		01/30/20 20:32	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		01/30/20 20:32	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		01/30/20 20:32	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		01/30/20 20:32	135-98-8	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40202467

Sample: MW-38 **Lab ID: 40202467005** Collected: 01/22/20 11:33 Received: 01/24/20 08:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		01/30/20 20:32	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		01/30/20 20:32	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		01/30/20 20:32	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		01/30/20 20:32	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		01/30/20 20:32	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		01/30/20 20:32	2037-26-5	
300.0 IC Anions Analytical Method: EPA 300.0									
Sulfate	91.2	mg/L	10.0	2.2	5		01/27/20 15:28	14808-79-8	
5310C TOC Analytical Method: SM 5310C									
Total Organic Carbon	1.5	mg/L	0.50	0.15	1		01/30/20 09:21	7440-44-0	

Sample: MW-41 **Lab ID: 40202467006** Collected: 01/22/20 10:32 Received: 01/24/20 08:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Ethane	<1.2	ug/L	5.6	1.2	1		01/29/20 08:41	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		01/29/20 08:41	74-85-1	
Methane	<0.66	ug/L	2.8	0.66	1		01/29/20 08:41	74-82-8	
6010 MET ICP, Dissolved Analytical Method: EPA 6010									
Iron, Dissolved	<29.6	ug/L	100	29.6	1		01/27/20 15:52	7439-89-6	
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		01/30/20 20:54	630-20-6	
1,1,1-Trichloroethane	2.3	ug/L	1.0	0.24	1		01/30/20 20:54	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		01/30/20 20:54	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		01/30/20 20:54	79-00-5	
1,1-Dichloroethane	1.1	ug/L	1.0	0.27	1		01/30/20 20:54	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		01/30/20 20:54	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		01/30/20 20:54	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		01/30/20 20:54	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		01/30/20 20:54	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		01/30/20 20:54	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		01/30/20 20:54	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		01/30/20 20:54	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		01/30/20 20:54	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		01/30/20 20:54	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		01/30/20 20:54	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		01/30/20 20:54	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		01/30/20 20:54	108-67-8	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40202467

Sample: MW-41 **Lab ID: 40202467006** Collected: 01/22/20 10:32 Received: 01/24/20 08:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		01/30/20 20:54	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		01/30/20 20:54	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		01/30/20 20:54	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		01/30/20 20:54	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		01/30/20 20:54	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		01/30/20 20:54	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		01/30/20 20:54	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		01/30/20 20:54	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		01/30/20 20:54	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		01/30/20 20:54	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		01/30/20 20:54	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		01/30/20 20:54	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		01/30/20 20:54	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		01/30/20 20:54	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		01/30/20 20:54	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		01/30/20 20:54	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		01/30/20 20:54	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		01/30/20 20:54	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		01/30/20 20:54	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		01/30/20 20:54	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		01/30/20 20:54	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		01/30/20 20:54	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		01/30/20 20:54	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		01/30/20 20:54	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		01/30/20 20:54	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		01/30/20 20:54	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		01/30/20 20:54	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		01/30/20 20:54	100-42-5	
Tetrachloroethene	1.1J	ug/L	1.1	0.33	1		01/30/20 20:54	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		01/30/20 20:54	108-88-3	
Trichloroethene	77.1	ug/L	1.0	0.26	1		01/30/20 20:54	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		01/30/20 20:54	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		01/30/20 20:54	75-01-4	
cis-1,2-Dichloroethene	1.3	ug/L	1.0	0.27	1		01/30/20 20:54	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		01/30/20 20:54	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		01/30/20 20:54	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		01/30/20 20:54	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		01/30/20 20:54	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		01/30/20 20:54	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		01/30/20 20:54	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		01/30/20 20:54	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		01/30/20 20:54	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		01/30/20 20:54	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		01/30/20 20:54	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		1		01/30/20 20:54	460-00-4	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40202467

Sample: MW-41 **Lab ID: 40202467006** Collected: 01/22/20 10:32 Received: 01/24/20 08:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
<i>Surrogates</i>									
Dibromofluoromethane (S)	105	%	70-130		1		01/30/20 20:54	1868-53-7	
Toluene-d8 (S)	103	%	70-130		1		01/30/20 20:54	2037-26-5	
300.0 IC Anions Analytical Method: EPA 300.0									
Sulfate	33.7	mg/L	10.0	2.2	5		01/27/20 15:41	14808-79-8	
5310C TOC Analytical Method: SM 5310C									
Total Organic Carbon	2.3	mg/L	1.5	0.45	3		01/30/20 09:42	7440-44-0	

Sample: MW-42 **Lab ID: 40202467007** Collected: 01/22/20 11:01 Received: 01/24/20 08:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV Analytical Method: EPA 8015B Modified									
Ethane	<1.2	ug/L	5.6	1.2	1		01/29/20 08:48	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		01/29/20 08:48	74-85-1	
Methane	114	ug/L	2.8	0.66	1		01/29/20 08:48	74-82-8	
6010 MET ICP, Dissolved Analytical Method: EPA 6010									
Iron, Dissolved	51800	ug/L	100	29.6	1		01/27/20 15:55	7439-89-6	
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<1.3	ug/L	5.0	1.3	5		01/31/20 09:17	630-20-6	
1,1,1-Trichloroethane	3.9J	ug/L	5.0	1.2	5		01/31/20 09:17	71-55-6	
1,1,2,2-Tetrachloroethane	<1.4	ug/L	5.0	1.4	5		01/31/20 09:17	79-34-5	
1,1,2-Trichloroethane	<2.8	ug/L	25.0	2.8	5		01/31/20 09:17	79-00-5	
1,1-Dichloroethane	14.1	ug/L	5.0	1.4	5		01/31/20 09:17	75-34-3	
1,1-Dichloroethene	3.5J	ug/L	5.0	1.2	5		01/31/20 09:17	75-35-4	
1,1-Dichloropropene	<2.7	ug/L	9.0	2.7	5		01/31/20 09:17	563-58-6	
1,2,3-Trichlorobenzene	<3.1	ug/L	25.0	3.1	5		01/31/20 09:17	87-61-6	
1,2,3-Trichloropropane	<3.0	ug/L	25.0	3.0	5		01/31/20 09:17	96-18-4	
1,2,4-Trichlorobenzene	<4.8	ug/L	25.0	4.8	5		01/31/20 09:17	120-82-1	
1,2,4-Trimethylbenzene	<4.2	ug/L	14.0	4.2	5		01/31/20 09:17	95-63-6	
1,2-Dibromo-3-chloropropane	<8.8	ug/L	29.4	8.8	5		01/31/20 09:17	96-12-8	
1,2-Dibromoethane (EDB)	<4.1	ug/L	13.8	4.1	5		01/31/20 09:17	106-93-4	
1,2-Dichlorobenzene	<3.5	ug/L	11.8	3.5	5		01/31/20 09:17	95-50-1	
1,2-Dichloroethane	<1.4	ug/L	5.0	1.4	5		01/31/20 09:17	107-06-2	
1,2-Dichloropropane	<1.4	ug/L	5.0	1.4	5		01/31/20 09:17	78-87-5	
1,3,5-Trimethylbenzene	<4.4	ug/L	14.6	4.4	5		01/31/20 09:17	108-67-8	
1,3-Dichlorobenzene	<3.1	ug/L	10.5	3.1	5		01/31/20 09:17	541-73-1	
1,3-Dichloropropane	<4.1	ug/L	13.8	4.1	5		01/31/20 09:17	142-28-9	
1,4-Dichlorobenzene	<4.7	ug/L	15.7	4.7	5		01/31/20 09:17	106-46-7	
2,2-Dichloropropane	<11.3	ug/L	37.8	11.3	5		01/31/20 09:17	594-20-7	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40202467

Sample: MW-42 **Lab ID: 40202467007** Collected: 01/22/20 11:01 Received: 01/24/20 08:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
2-Chlorotoluene	<4.6	ug/L	25.0	4.6	5		01/31/20 09:17	95-49-8	
4-Chlorotoluene	<3.8	ug/L	12.6	3.8	5		01/31/20 09:17	106-43-4	
Benzene	<1.2	ug/L	5.0	1.2	5		01/31/20 09:17	71-43-2	
Bromobenzene	<1.2	ug/L	5.0	1.2	5		01/31/20 09:17	108-86-1	
Bromochloromethane	<1.8	ug/L	25.0	1.8	5		01/31/20 09:17	74-97-5	
Bromodichloromethane	<1.8	ug/L	6.1	1.8	5		01/31/20 09:17	75-27-4	
Bromoform	<19.9	ug/L	66.2	19.9	5		01/31/20 09:17	75-25-2	
Bromomethane	<4.9	ug/L	25.0	4.9	5		01/31/20 09:17	74-83-9	
Carbon tetrachloride	<0.83	ug/L	5.0	0.83	5		01/31/20 09:17	56-23-5	
Chlorobenzene	<3.6	ug/L	11.8	3.6	5		01/31/20 09:17	108-90-7	
Chloroethane	<6.7	ug/L	25.0	6.7	5		01/31/20 09:17	75-00-3	
Chloroform	<6.4	ug/L	25.0	6.4	5		01/31/20 09:17	67-66-3	
Chloromethane	<10.9	ug/L	36.5	10.9	5		01/31/20 09:17	74-87-3	
Dibromochloromethane	<13.0	ug/L	43.4	13.0	5		01/31/20 09:17	124-48-1	
Dibromomethane	<4.7	ug/L	15.6	4.7	5		01/31/20 09:17	74-95-3	
Dichlorodifluoromethane	<2.5	ug/L	25.0	2.5	5		01/31/20 09:17	75-71-8	
Diisopropyl ether	<9.4	ug/L	31.5	9.4	5		01/31/20 09:17	108-20-3	
Ethylbenzene	<1.1	ug/L	5.0	1.1	5		01/31/20 09:17	100-41-4	
Hexachloro-1,3-butadiene	<5.9	ug/L	25.0	5.9	5		01/31/20 09:17	87-68-3	
Isopropylbenzene (Cumene)	<2.0	ug/L	25.0	2.0	5		01/31/20 09:17	98-82-8	
Methyl-tert-butyl ether	<6.2	ug/L	20.8	6.2	5		01/31/20 09:17	1634-04-4	
Methylene Chloride	<2.9	ug/L	25.0	2.9	5		01/31/20 09:17	75-09-2	
Naphthalene	<5.9	ug/L	25.0	5.9	5		01/31/20 09:17	91-20-3	
Styrene	<2.3	ug/L	7.8	2.3	5		01/31/20 09:17	100-42-5	
Tetrachloroethene	<1.6	ug/L	5.4	1.6	5		01/31/20 09:17	127-18-4	
Toluene	<0.86	ug/L	25.0	0.86	5		01/31/20 09:17	108-88-3	
Trichloroethene	342	ug/L	5.0	1.3	5		01/31/20 09:17	79-01-6	
Trichlorofluoromethane	<1.1	ug/L	5.0	1.1	5		01/31/20 09:17	75-69-4	
Vinyl chloride	2.7J	ug/L	5.0	0.87	5		01/31/20 09:17	75-01-4	
cis-1,2-Dichloroethene	609	ug/L	5.0	1.4	5		01/31/20 09:17	156-59-2	
cis-1,3-Dichloropropene	<18.1	ug/L	60.5	18.1	5		01/31/20 09:17	10061-01-5	
m&p-Xylene	<2.3	ug/L	10.0	2.3	5		01/31/20 09:17	179601-23-1	
n-Butylbenzene	<3.5	ug/L	11.8	3.5	5		01/31/20 09:17	104-51-8	
n-Propylbenzene	<4.1	ug/L	25.0	4.1	5		01/31/20 09:17	103-65-1	
o-Xylene	<1.3	ug/L	5.0	1.3	5		01/31/20 09:17	95-47-6	
p-Isopropyltoluene	<4.0	ug/L	13.3	4.0	5		01/31/20 09:17	99-87-6	
sec-Butylbenzene	<4.2	ug/L	25.0	4.2	5		01/31/20 09:17	135-98-8	
tert-Butylbenzene	<1.5	ug/L	5.1	1.5	5		01/31/20 09:17	98-06-6	
trans-1,2-Dichloroethene	<5.5	ug/L	18.2	5.5	5		01/31/20 09:17	156-60-5	
trans-1,3-Dichloropropene	<21.9	ug/L	72.8	21.9	5		01/31/20 09:17	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		5		01/31/20 09:17	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		5		01/31/20 09:17	1868-53-7	
Toluene-d8 (S)	102	%	70-130		5		01/31/20 09:17	2037-26-5	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40202467

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: MW-42 Lab ID: 40202467007 Collected: 01/22/20 11:01 Received: 01/24/20 08:35 Matrix: Water									
Analytical Method: EPA 300.0									
Sulfate	<2.2	mg/L	10.0	2.2	5		01/27/20 15:55	14808-79-8	D3
Analytical Method: SM 5310C									
Total Organic Carbon	229	mg/L	50.0	14.9	100		01/30/20 10:03	7440-44-0	

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Sample: OP-14 Lab ID: 40202467008 Collected: 01/22/20 09:21 Received: 01/24/20 08:35 Matrix: Water									
Analytical Method: EPA 8015B Modified									
Ethane	<1.2	ug/L	5.6	1.2	1		01/29/20 08:55	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		01/29/20 08:55	74-85-1	
Methane	<0.66	ug/L	2.8	0.66	1		01/29/20 08:55	74-82-8	
Analytical Method: EPA 6010									
Iron, Dissolved	159	ug/L	100	29.6	1		01/27/20 15:57	7439-89-6	
Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<1.1	ug/L	4.0	1.1	4		01/30/20 22:47	630-20-6	
1,1,1-Trichloroethane	1.8J	ug/L	4.0	0.98	4		01/30/20 22:47	71-55-6	
1,1,2,2-Tetrachloroethane	<1.1	ug/L	4.0	1.1	4		01/30/20 22:47	79-34-5	
1,1,2-Trichloroethane	<2.2	ug/L	20.0	2.2	4		01/30/20 22:47	79-00-5	
1,1-Dichloroethane	<1.1	ug/L	4.0	1.1	4		01/30/20 22:47	75-34-3	
1,1-Dichloroethene	<0.98	ug/L	4.0	0.98	4		01/30/20 22:47	75-35-4	
1,1-Dichloropropene	<2.2	ug/L	7.2	2.2	4		01/30/20 22:47	563-58-6	
1,2,3-Trichlorobenzene	<2.5	ug/L	20.0	2.5	4		01/30/20 22:47	87-61-6	
1,2,3-Trichloropropane	<2.4	ug/L	20.0	2.4	4		01/30/20 22:47	96-18-4	
1,2,4-Trichlorobenzene	<3.8	ug/L	20.0	3.8	4		01/30/20 22:47	120-82-1	
1,2,4-Trimethylbenzene	<3.4	ug/L	11.2	3.4	4		01/30/20 22:47	95-63-6	
1,2-Dibromo-3-chloropropane	<7.1	ug/L	23.5	7.1	4		01/30/20 22:47	96-12-8	
1,2-Dibromoethane (EDB)	<3.3	ug/L	11.1	3.3	4		01/30/20 22:47	106-93-4	
1,2-Dichlorobenzene	<2.8	ug/L	9.4	2.8	4		01/30/20 22:47	95-50-1	
1,2-Dichloroethane	<1.1	ug/L	4.0	1.1	4		01/30/20 22:47	107-06-2	
1,2-Dichloropropane	<1.1	ug/L	4.0	1.1	4		01/30/20 22:47	78-87-5	
1,3,5-Trimethylbenzene	<3.5	ug/L	11.6	3.5	4		01/30/20 22:47	108-67-8	
1,3-Dichlorobenzene	<2.5	ug/L	8.4	2.5	4		01/30/20 22:47	541-73-1	
1,3-Dichloropropane	<3.3	ug/L	11.0	3.3	4		01/30/20 22:47	142-28-9	
1,4-Dichlorobenzene	<3.8	ug/L	12.6	3.8	4		01/30/20 22:47	106-46-7	
2,2-Dichloropropane	<9.1	ug/L	30.2	9.1	4		01/30/20 22:47	594-20-7	
2-Chlorotoluene	<3.7	ug/L	20.0	3.7	4		01/30/20 22:47	95-49-8	
4-Chlorotoluene	<3.0	ug/L	10.1	3.0	4		01/30/20 22:47	106-43-4	
Benzene	<0.99	ug/L	4.0	0.99	4		01/30/20 22:47	71-43-2	
Bromobenzene	<0.96	ug/L	4.0	0.96	4		01/30/20 22:47	108-86-1	
Bromochloromethane	<1.4	ug/L	20.0	1.4	4		01/30/20 22:47	74-97-5	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40202467

Sample: OP-14 **Lab ID: 40202467008** Collected: 01/22/20 09:21 Received: 01/24/20 08:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Bromodichloromethane	<1.5	ug/L	4.8	1.5	4		01/30/20 22:47	75-27-4	
Bromoform	<15.9	ug/L	53.0	15.9	4		01/30/20 22:47	75-25-2	
Bromomethane	<3.9	ug/L	20.0	3.9	4		01/30/20 22:47	74-83-9	
Carbon tetrachloride	<0.66	ug/L	4.0	0.66	4		01/30/20 22:47	56-23-5	
Chlorobenzene	<2.8	ug/L	9.5	2.8	4		01/30/20 22:47	108-90-7	
Chloroethane	<5.4	ug/L	20.0	5.4	4		01/30/20 22:47	75-00-3	
Chloroform	<5.1	ug/L	20.0	5.1	4		01/30/20 22:47	67-66-3	
Chloromethane	<8.8	ug/L	29.2	8.8	4		01/30/20 22:47	74-87-3	
Dibromochloromethane	<10.4	ug/L	34.7	10.4	4		01/30/20 22:47	124-48-1	
Dibromomethane	<3.7	ug/L	12.5	3.7	4		01/30/20 22:47	74-95-3	
Dichlorodifluoromethane	<2.0	ug/L	20.0	2.0	4		01/30/20 22:47	75-71-8	
Diisopropyl ether	<7.6	ug/L	25.2	7.6	4		01/30/20 22:47	108-20-3	
Ethylbenzene	<0.87	ug/L	4.0	0.87	4		01/30/20 22:47	100-41-4	
Hexachloro-1,3-butadiene	<4.7	ug/L	20.0	4.7	4		01/30/20 22:47	87-68-3	
Isopropylbenzene (Cumene)	<1.6	ug/L	20.0	1.6	4		01/30/20 22:47	98-82-8	
Methyl-tert-butyl ether	<5.0	ug/L	16.6	5.0	4		01/30/20 22:47	1634-04-4	
Methylene Chloride	<2.3	ug/L	20.0	2.3	4		01/30/20 22:47	75-09-2	
Naphthalene	<4.7	ug/L	20.0	4.7	4		01/30/20 22:47	91-20-3	
Styrene	<1.9	ug/L	6.2	1.9	4		01/30/20 22:47	100-42-5	
Tetrachloroethene	5.5	ug/L	4.4	1.3	4		01/30/20 22:47	127-18-4	
Toluene	<0.69	ug/L	20.0	0.69	4		01/30/20 22:47	108-88-3	
Trichloroethene	325	ug/L	4.0	1.0	4		01/30/20 22:47	79-01-6	
Trichlorofluoromethane	<0.86	ug/L	4.0	0.86	4		01/30/20 22:47	75-69-4	
Vinyl chloride	<0.70	ug/L	4.0	0.70	4		01/30/20 22:47	75-01-4	
cis-1,2-Dichloroethene	255	ug/L	4.0	1.1	4		01/30/20 22:47	156-59-2	
cis-1,3-Dichloropropene	<14.5	ug/L	48.4	14.5	4		01/30/20 22:47	10061-01-5	
m&p-Xylene	<1.9	ug/L	8.0	1.9	4		01/30/20 22:47	179601-23-1	
n-Butylbenzene	<2.8	ug/L	9.4	2.8	4		01/30/20 22:47	104-51-8	
n-Propylbenzene	<3.2	ug/L	20.0	3.2	4		01/30/20 22:47	103-65-1	
o-Xylene	<1.0	ug/L	4.0	1.0	4		01/30/20 22:47	95-47-6	
p-Isopropyltoluene	<3.2	ug/L	10.7	3.2	4		01/30/20 22:47	99-87-6	
sec-Butylbenzene	<3.4	ug/L	20.0	3.4	4		01/30/20 22:47	135-98-8	
tert-Butylbenzene	<1.2	ug/L	4.1	1.2	4		01/30/20 22:47	98-06-6	
trans-1,2-Dichloroethene	<4.4	ug/L	14.5	4.4	4		01/30/20 22:47	156-60-5	
trans-1,3-Dichloropropene	<17.5	ug/L	58.3	17.5	4		01/30/20 22:47	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	99	%	70-130		4		01/30/20 22:47	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		4		01/30/20 22:47	1868-53-7	
Toluene-d8 (S)	102	%	70-130		4		01/30/20 22:47	2037-26-5	

300.0 IC Anions

Analytical Method: EPA 300.0

Sulfate	71.3	mg/L	10.0	2.2	5		01/27/20 16:08	14808-79-8	
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5310C TOC

Analytical Method: SM 5310C

Total Organic Carbon	6.9	mg/L	1.5	0.45	3		01/30/20 10:24	7440-44-0	
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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40202467

Sample: DUP-1 **Lab ID: 40202467009** Collected: 01/22/20 00:00 Received: 01/24/20 08:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV		Analytical Method: EPA 8015B Modified							
Ethane	<1.2	ug/L	5.6	1.2	1		01/29/20 09:01	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		01/29/20 09:01	74-85-1	
Methane	681	ug/L	28.0	6.6	10		01/29/20 09:39	74-82-8	
6010 MET ICP, Dissolved		Analytical Method: EPA 6010							
Iron, Dissolved	32.5J	ug/L	100	29.6	1		01/27/20 16:05	7439-89-6	
8260 MSV		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<13.5	ug/L	50.0	13.5	50		01/30/20 23:09	630-20-6	
1,1,1-Trichloroethane	<12.2	ug/L	50.0	12.2	50		01/30/20 23:09	71-55-6	
1,1,1,2-Tetrachloroethane	<13.8	ug/L	50.0	13.8	50		01/30/20 23:09	79-34-5	
1,1,2-Trichloroethane	<27.6	ug/L	250	27.6	50		01/30/20 23:09	79-00-5	
1,1-Dichloroethane	<13.6	ug/L	50.0	13.6	50		01/30/20 23:09	75-34-3	
1,1-Dichloroethene	<12.2	ug/L	50.0	12.2	50		01/30/20 23:09	75-35-4	
1,1-Dichloropropene	<27.0	ug/L	90.0	27.0	50		01/30/20 23:09	563-58-6	
1,2,3-Trichlorobenzene	<31.3	ug/L	250	31.3	50		01/30/20 23:09	87-61-6	
1,2,3-Trichloropropane	<29.5	ug/L	250	29.5	50		01/30/20 23:09	96-18-4	
1,2,4-Trichlorobenzene	<47.6	ug/L	250	47.6	50		01/30/20 23:09	120-82-1	
1,2,4-Trimethylbenzene	<42.0	ug/L	140	42.0	50		01/30/20 23:09	95-63-6	
1,2-Dibromo-3-chloropropane	<88.2	ug/L	294	88.2	50		01/30/20 23:09	96-12-8	
1,2-Dibromoethane (EDB)	<41.5	ug/L	138	41.5	50		01/30/20 23:09	106-93-4	
1,2-Dichlorobenzene	<35.3	ug/L	118	35.3	50		01/30/20 23:09	95-50-1	
1,2-Dichloroethane	<14.0	ug/L	50.0	14.0	50		01/30/20 23:09	107-06-2	
1,2-Dichloropropane	<14.1	ug/L	50.0	14.1	50		01/30/20 23:09	78-87-5	
1,3,5-Trimethylbenzene	<43.7	ug/L	146	43.7	50		01/30/20 23:09	108-67-8	
1,3-Dichlorobenzene	<31.4	ug/L	105	31.4	50		01/30/20 23:09	541-73-1	
1,3-Dichloropropane	<41.3	ug/L	138	41.3	50		01/30/20 23:09	142-28-9	
1,4-Dichlorobenzene	<47.2	ug/L	157	47.2	50		01/30/20 23:09	106-46-7	
2,2-Dichloropropane	<113	ug/L	378	113	50		01/30/20 23:09	594-20-7	
2-Chlorotoluene	<46.3	ug/L	250	46.3	50		01/30/20 23:09	95-49-8	
4-Chlorotoluene	<37.8	ug/L	126	37.8	50		01/30/20 23:09	106-43-4	
Benzene	<12.3	ug/L	50.0	12.3	50		01/30/20 23:09	71-43-2	
Bromobenzene	<12.1	ug/L	50.0	12.1	50		01/30/20 23:09	108-86-1	
Bromochloromethane	<18.1	ug/L	250	18.1	50		01/30/20 23:09	74-97-5	
Bromodichloromethane	<18.2	ug/L	60.6	18.2	50		01/30/20 23:09	75-27-4	
Bromoform	<199	ug/L	662	199	50		01/30/20 23:09	75-25-2	
Bromomethane	<48.6	ug/L	250	48.6	50		01/30/20 23:09	74-83-9	
Carbon tetrachloride	<8.3	ug/L	50.0	8.3	50		01/30/20 23:09	56-23-5	
Chlorobenzene	<35.5	ug/L	118	35.5	50		01/30/20 23:09	108-90-7	
Chloroethane	<67.1	ug/L	250	67.1	50		01/30/20 23:09	75-00-3	
Chloroform	<63.7	ug/L	250	63.7	50		01/30/20 23:09	67-66-3	
Chloromethane	<109	ug/L	365	109	50		01/30/20 23:09	74-87-3	
Dibromochloromethane	<130	ug/L	434	130	50		01/30/20 23:09	124-48-1	
Dibromomethane	<46.8	ug/L	156	46.8	50		01/30/20 23:09	74-95-3	
Dichlorodifluoromethane	<25.0	ug/L	250	25.0	50		01/30/20 23:09	75-71-8	
Diisopropyl ether	<94.4	ug/L	315	94.4	50		01/30/20 23:09	108-20-3	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40202467

Sample: DUP-1 **Lab ID: 40202467009** Collected: 01/22/20 00:00 Received: 01/24/20 08:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
Ethylbenzene	<10.9	ug/L	50.0	10.9	50		01/30/20 23:09	100-41-4	
Hexachloro-1,3-butadiene	<59.1	ug/L	250	59.1	50		01/30/20 23:09	87-68-3	
Isopropylbenzene (Cumene)	<19.6	ug/L	250	19.6	50		01/30/20 23:09	98-82-8	
Methyl-tert-butyl ether	<62.3	ug/L	208	62.3	50		01/30/20 23:09	1634-04-4	
Methylene Chloride	<29.0	ug/L	250	29.0	50		01/30/20 23:09	75-09-2	
Naphthalene	<58.8	ug/L	250	58.8	50		01/30/20 23:09	91-20-3	
Styrene	<23.3	ug/L	77.6	23.3	50		01/30/20 23:09	100-42-5	
Tetrachloroethene	<16.3	ug/L	54.4	16.3	50		01/30/20 23:09	127-18-4	
Toluene	<8.6	ug/L	250	8.6	50		01/30/20 23:09	108-88-3	
Trichloroethene	3350	ug/L	50.0	12.8	50		01/30/20 23:09	79-01-6	
Trichlorofluoromethane	<10.7	ug/L	50.0	10.7	50		01/30/20 23:09	75-69-4	
Vinyl chloride	27.3J	ug/L	50.0	8.7	50		01/30/20 23:09	75-01-4	
cis-1,2-Dichloroethene	883	ug/L	50.0	13.6	50		01/30/20 23:09	156-59-2	
cis-1,3-Dichloropropene	<181	ug/L	605	181	50		01/30/20 23:09	10061-01-5	
m&p-Xylene	<23.3	ug/L	100	23.3	50		01/30/20 23:09	179601-23-1	
n-Butylbenzene	<35.4	ug/L	118	35.4	50		01/30/20 23:09	104-51-8	
n-Propylbenzene	<40.5	ug/L	250	40.5	50		01/30/20 23:09	103-65-1	
o-Xylene	<13.1	ug/L	50.0	13.1	50		01/30/20 23:09	95-47-6	
p-Isopropyltoluene	<40.0	ug/L	133	40.0	50		01/30/20 23:09	99-87-6	
sec-Butylbenzene	<42.4	ug/L	250	42.4	50		01/30/20 23:09	135-98-8	
tert-Butylbenzene	<15.2	ug/L	50.6	15.2	50		01/30/20 23:09	98-06-6	
trans-1,2-Dichloroethene	<54.5	ug/L	182	54.5	50		01/30/20 23:09	156-60-5	
trans-1,3-Dichloropropene	<219	ug/L	728	219	50		01/30/20 23:09	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		50		01/30/20 23:09	460-00-4	
Dibromofluoromethane (S)	105	%	70-130		50		01/30/20 23:09	1868-53-7	
Toluene-d8 (S)	102	%	70-130		50		01/30/20 23:09	2037-26-5	
300.0 IC Anions Analytical Method: EPA 300.0									
Sulfate	76.7	mg/L	10.0	2.2	5		01/27/20 16:21	14808-79-8	
5310C TOC Analytical Method: SM 5310C									
Total Organic Carbon	2.0	mg/L	1.0	0.30	2		01/30/20 10:45	7440-44-0	

Sample: TRIP **Lab ID: 40202467010** Collected: 01/22/20 00:00 Received: 01/24/20 08:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		01/30/20 16:47	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		01/30/20 16:47	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		01/30/20 16:47	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		01/30/20 16:47	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		01/30/20 16:47	75-34-3	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40202467

Sample: TRIP **Lab ID:** 40202467010 Collected: 01/22/20 00:00 Received: 01/24/20 08:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260							
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		01/30/20 16:47	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		01/30/20 16:47	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		01/30/20 16:47	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		01/30/20 16:47	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		01/30/20 16:47	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		01/30/20 16:47	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		01/30/20 16:47	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		01/30/20 16:47	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		01/30/20 16:47	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		01/30/20 16:47	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		01/30/20 16:47	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		01/30/20 16:47	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		01/30/20 16:47	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		01/30/20 16:47	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		01/30/20 16:47	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		01/30/20 16:47	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		01/30/20 16:47	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		01/30/20 16:47	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		01/30/20 16:47	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		01/30/20 16:47	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		01/30/20 16:47	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		01/30/20 16:47	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		01/30/20 16:47	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		01/30/20 16:47	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		01/30/20 16:47	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		01/30/20 16:47	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		01/30/20 16:47	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		01/30/20 16:47	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		01/30/20 16:47	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		01/30/20 16:47	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		01/30/20 16:47	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		01/30/20 16:47	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		01/30/20 16:47	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		01/30/20 16:47	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		01/30/20 16:47	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		01/30/20 16:47	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		01/30/20 16:47	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		01/30/20 16:47	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		01/30/20 16:47	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		01/30/20 16:47	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		01/30/20 16:47	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		01/30/20 16:47	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		01/30/20 16:47	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		01/30/20 16:47	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		01/30/20 16:47	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		01/30/20 16:47	156-59-2	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40202467

Sample: TRIP **Lab ID: 40202467010** Collected: 01/22/20 00:00 Received: 01/24/20 08:35 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		01/30/20 16:47	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		01/30/20 16:47	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		01/30/20 16:47	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		01/30/20 16:47	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		01/30/20 16:47	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		01/30/20 16:47	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		01/30/20 16:47	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		01/30/20 16:47	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		01/30/20 16:47	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		01/30/20 16:47	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	98	%	70-130		1		01/30/20 16:47	460-00-4	
Dibromofluoromethane (S)	104	%	70-130		1		01/30/20 16:47	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		01/30/20 16:47	2037-26-5	

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40202467

QC Batch: 346511 Analysis Method: EPA 8015B Modified
 QC Batch Method: EPA 8015B Modified Analysis Description: Methane, Ethane, Ethene GCV
 Associated Lab Samples: 40202467001, 40202467002, 40202467003, 40202467004, 40202467005, 40202467006, 40202467007,
 40202467008, 40202467009

METHOD BLANK: 2009770 Matrix: Water
 Associated Lab Samples: 40202467001, 40202467002, 40202467003, 40202467004, 40202467005, 40202467006, 40202467007,
 40202467008, 40202467009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	<1.2	5.6	01/29/20 07:34	
Ethene	ug/L	<1.2	5.0	01/29/20 07:34	
Methane	ug/L	<0.66	2.8	01/29/20 07:34	

LABORATORY CONTROL SAMPLE & LCSD: 2009771 2009772

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	53.6	58.8	59.2	110	110	80-120	1	20	
Ethene	ug/L	50	54.4	54.8	109	110	80-120	1	20	
Methane	ug/L	28.6	30.3	30.7	106	108	80-120	2	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2009823 2009824

Parameter	Units	40202467002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Ethane	ug/L	<1.2	53.6	53.6	52.8	57.3	99	107	80-120	8	20	
Ethene	ug/L	<1.2	50	50	49.5	53.2	99	106	80-120	7	20	
Methane	ug/L	1.2J	28.6	28.6	32.4	34.4	109	116	77-122	6	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40202467

QC Batch: 346363 Analysis Method: EPA 6010
QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved
Associated Lab Samples: 40202467001, 40202467002, 40202467003, 40202467004, 40202467005, 40202467006, 40202467007, 40202467008, 40202467009

METHOD BLANK: 2009193 Matrix: Water
Associated Lab Samples: 40202467001, 40202467002, 40202467003, 40202467004, 40202467005, 40202467006, 40202467007, 40202467008, 40202467009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Dissolved	ug/L	<29.6	100	01/27/20 15:26	

LABORATORY CONTROL SAMPLE: 2009194

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	ug/L	5000	4850	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2009195 2009196

Parameter	Units	40202467001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Result							
Iron, Dissolved	ug/L	<29.6	5000	4810	4760	96	95	75-125	1	20		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40202467

QC Batch: 346325 Analysis Method: EPA 8260
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
 Associated Lab Samples: 40202467001, 40202467002, 40202467003, 40202467004, 40202467005, 40202467006, 40202467007,
 40202467008, 40202467009, 40202467010

METHOD BLANK: 2009112 Matrix: Water
 Associated Lab Samples: 40202467001, 40202467002, 40202467003, 40202467004, 40202467005, 40202467006, 40202467007,
 40202467008, 40202467009, 40202467010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	01/30/20 13:02	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	01/30/20 13:02	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	01/30/20 13:02	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	01/30/20 13:02	
1,1-Dichloroethane	ug/L	<0.27	1.0	01/30/20 13:02	
1,1-Dichloroethene	ug/L	<0.24	1.0	01/30/20 13:02	
1,1-Dichloropropene	ug/L	<0.54	1.8	01/30/20 13:02	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	01/30/20 13:02	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	01/30/20 13:02	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	01/30/20 13:02	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	01/30/20 13:02	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	01/30/20 13:02	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	01/30/20 13:02	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	01/30/20 13:02	
1,2-Dichloroethane	ug/L	<0.28	1.0	01/30/20 13:02	
1,2-Dichloropropane	ug/L	<0.28	1.0	01/30/20 13:02	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	01/30/20 13:02	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	01/30/20 13:02	
1,3-Dichloropropane	ug/L	<0.83	2.8	01/30/20 13:02	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	01/30/20 13:02	
2,2-Dichloropropane	ug/L	<2.3	7.6	01/30/20 13:02	
2-Chlorotoluene	ug/L	<0.93	5.0	01/30/20 13:02	
4-Chlorotoluene	ug/L	<0.76	2.5	01/30/20 13:02	
Benzene	ug/L	<0.25	1.0	01/30/20 13:02	
Bromobenzene	ug/L	<0.24	1.0	01/30/20 13:02	
Bromochloromethane	ug/L	<0.36	5.0	01/30/20 13:02	
Bromodichloromethane	ug/L	<0.36	1.2	01/30/20 13:02	
Bromoform	ug/L	<4.0	13.2	01/30/20 13:02	
Bromomethane	ug/L	<0.97	5.0	01/30/20 13:02	
Carbon tetrachloride	ug/L	<0.17	1.0	01/30/20 13:02	
Chlorobenzene	ug/L	<0.71	2.4	01/30/20 13:02	
Chloroethane	ug/L	<1.3	5.0	01/30/20 13:02	
Chloroform	ug/L	<1.3	5.0	01/30/20 13:02	
Chloromethane	ug/L	<2.2	7.3	01/30/20 13:02	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	01/30/20 13:02	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	01/30/20 13:02	
Dibromochloromethane	ug/L	<2.6	8.7	01/30/20 13:02	
Dibromomethane	ug/L	<0.94	3.1	01/30/20 13:02	
Dichlorodifluoromethane	ug/L	<0.50	5.0	01/30/20 13:02	
Diisopropyl ether	ug/L	<1.9	6.3	01/30/20 13:02	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40202467

METHOD BLANK: 2009112 Matrix: Water
Associated Lab Samples: 40202467001, 40202467002, 40202467003, 40202467004, 40202467005, 40202467006, 40202467007, 40202467008, 40202467009, 40202467010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	<0.22	1.0	01/30/20 13:02	
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	01/30/20 13:02	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	01/30/20 13:02	
m&p-Xylene	ug/L	<0.47	2.0	01/30/20 13:02	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	01/30/20 13:02	
Methylene Chloride	ug/L	<0.58	5.0	01/30/20 13:02	
n-Butylbenzene	ug/L	<0.71	2.4	01/30/20 13:02	
n-Propylbenzene	ug/L	<0.81	5.0	01/30/20 13:02	
Naphthalene	ug/L	<1.2	5.0	01/30/20 13:02	
o-Xylene	ug/L	<0.26	1.0	01/30/20 13:02	
p-Isopropyltoluene	ug/L	<0.80	2.7	01/30/20 13:02	
sec-Butylbenzene	ug/L	<0.85	5.0	01/30/20 13:02	
Styrene	ug/L	<0.47	1.6	01/30/20 13:02	
tert-Butylbenzene	ug/L	<0.30	1.0	01/30/20 13:02	
Tetrachloroethene	ug/L	<0.33	1.1	01/30/20 13:02	
Toluene	ug/L	<0.17	5.0	01/30/20 13:02	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	01/30/20 13:02	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	01/30/20 13:02	
Trichloroethene	ug/L	<0.26	1.0	01/30/20 13:02	
Trichlorofluoromethane	ug/L	<0.21	1.0	01/30/20 13:02	
Vinyl chloride	ug/L	<0.17	1.0	01/30/20 13:02	
4-Bromofluorobenzene (S)	%	98	70-130	01/30/20 13:02	
Dibromofluoromethane (S)	%	102	70-130	01/30/20 13:02	
Toluene-d8 (S)	%	102	70-130	01/30/20 13:02	

LABORATORY CONTROL SAMPLE: 2009113

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	49.5	99	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	52.8	106	70-130	
1,1,2-Trichloroethane	ug/L	50	52.5	105	70-130	
1,1-Dichloroethane	ug/L	50	55.7	111	73-150	
1,1-Dichloroethene	ug/L	50	49.9	100	73-138	
1,2,4-Trichlorobenzene	ug/L	50	50.4	101	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	42.6	85	64-129	
1,2-Dibromoethane (EDB)	ug/L	50	48.4	97	70-130	
1,2-Dichlorobenzene	ug/L	50	50.5	101	70-130	
1,2-Dichloroethane	ug/L	50	57.3	115	75-140	
1,2-Dichloropropane	ug/L	50	55.9	112	73-135	
1,3-Dichlorobenzene	ug/L	50	50.4	101	70-130	
1,4-Dichlorobenzene	ug/L	50	50.8	102	70-130	
Benzene	ug/L	50	54.3	109	70-130	
Bromodichloromethane	ug/L	50	51.5	103	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40202467

LABORATORY CONTROL SAMPLE: 2009113

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	50	42.7	85	68-129	
Bromomethane	ug/L	50	44.4	89	18-159	
Carbon tetrachloride	ug/L	50	50.3	101	70-130	
Chlorobenzene	ug/L	50	51.8	104	70-130	
Chloroethane	ug/L	50	49.0	98	53-147	
Chloroform	ug/L	50	52.6	105	74-136	
Chloromethane	ug/L	50	39.8	80	29-115	
cis-1,2-Dichloroethene	ug/L	50	51.1	102	70-130	
cis-1,3-Dichloropropene	ug/L	50	46.5	93	70-130	
Dibromochloromethane	ug/L	50	47.3	95	70-130	
Dichlorodifluoromethane	ug/L	50	50.3	101	10-130	
Ethylbenzene	ug/L	50	52.3	105	80-124	
Isopropylbenzene (Cumene)	ug/L	50	51.7	103	70-130	
m&p-Xylene	ug/L	100	102	102	70-130	
Methyl-tert-butyl ether	ug/L	50	45.5	91	54-137	
Methylene Chloride	ug/L	50	49.4	99	73-138	
o-Xylene	ug/L	50	50.0	100	70-130	
Styrene	ug/L	50	51.6	103	70-130	
Tetrachloroethene	ug/L	50	50.5	101	70-130	
Toluene	ug/L	50	51.2	102	80-126	
trans-1,2-Dichloroethene	ug/L	50	49.3	99	73-145	
trans-1,3-Dichloropropene	ug/L	50	42.2	84	70-130	
Trichloroethene	ug/L	50	54.3	109	70-130	
Trichlorofluoromethane	ug/L	50	59.5	119	76-147	
Vinyl chloride	ug/L	50	46.6	93	51-120	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			105	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2009116 2009117

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40202309002 Result	Spike Conc.	Spike Conc.	Result								
1,1,1-Trichloroethane	ug/L	<0.24	50	50	50.9	51.7	102	103	70-130	2	20		
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	53.4	54.0	107	108	70-130	1	20		
1,1,2-Trichloroethane	ug/L	<0.55	50	50	53.5	54.0	107	108	70-137	1	20		
1,1-Dichloroethane	ug/L	<0.27	50	50	56.4	57.8	113	116	73-153	2	20		
1,1-Dichloroethene	ug/L	<0.24	50	50	50.6	51.6	101	103	73-138	2	20		
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	53.7	53.9	107	108	70-130	0	20		
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	44.6	45.6	89	91	58-129	2	20		
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	49.7	50.1	99	100	70-130	1	20		
1,2-Dichlorobenzene	ug/L	<0.71	50	50	51.9	52.5	104	105	70-130	1	20		
1,2-Dichloroethane	ug/L	0.65J	50	50	58.9	59.7	117	118	75-140	1	20		
1,2-Dichloropropane	ug/L	<0.28	50	50	57.1	58.3	114	117	71-138	2	20		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40202467

Parameter	Units	2009116		2009117		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40202309002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
1,3-Dichlorobenzene	ug/L	<0.63	50	50	52.5	52.7	105	105	70-130	0	20		
1,4-Dichlorobenzene	ug/L	<0.94	50	50	52.8	52.9	106	106	70-130	0	20		
Benzene	ug/L	<0.25	50	50	55.4	56.1	111	112	70-130	1	20		
Bromodichloromethane	ug/L	<0.36	50	50	53.0	54.0	106	108	70-130	2	20		
Bromoform	ug/L	<4.0	50	50	43.9	44.4	88	89	68-129	1	20		
Bromomethane	ug/L	<0.97	50	50	52.4	56.5	105	113	15-170	8	20		
Carbon tetrachloride	ug/L	<0.17	50	50	52.2	53.4	104	107	70-130	2	20		
Chlorobenzene	ug/L	<0.71	50	50	53.0	53.4	106	107	70-130	1	20		
Chloroethane	ug/L	<1.3	50	50	49.7	50.5	99	101	51-148	2	20		
Chloroform	ug/L	<1.3	50	50	54.2	54.7	108	109	74-136	1	20		
Chloromethane	ug/L	<2.2	50	50	41.7	40.7	83	81	23-115	2	20		
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	51.7	53.1	103	106	70-131	3	20		
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	48.2	48.9	96	98	70-130	1	20		
Dibromochloromethane	ug/L	<2.6	50	50	49.5	49.4	99	99	70-130	0	20		
Dichlorodifluoromethane	ug/L	<0.50	50	50	49.2	49.3	98	99	10-132	0	20		
Ethylbenzene	ug/L	<0.22	50	50	53.6	54.3	107	109	80-125	1	20		
Isopropylbenzene (Cumene)	ug/L	<0.39	50	50	52.8	53.4	106	107	70-130	1	20		
m&p-Xylene	ug/L	<0.47	100	100	104	105	104	105	70-130	1	20		
Methyl-tert-butyl ether	ug/L	<1.2	50	50	47.0	47.5	94	95	51-145	1	20		
Methylene Chloride	ug/L	<0.58	50	50	50.3	50.2	101	100	73-140	0	20		
o-Xylene	ug/L	<0.26	50	50	51.5	52.4	103	104	70-130	2	20		
Styrene	ug/L	<0.47	50	50	53.1	53.7	106	107	70-130	1	20		
Tetrachloroethene	ug/L	<0.33	50	50	51.4	52.0	103	104	70-130	1	20		
Toluene	ug/L	<0.17	50	50	52.1	52.8	104	106	80-131	1	20		
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	50.6	51.0	101	102	73-148	1	20		
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	43.4	44.3	87	89	70-130	2	20		
Trichloroethene	ug/L	<0.26	50	50	55.3	56.0	111	112	70-130	1	20		
Trichlorofluoromethane	ug/L	<0.21	50	50	59.7	60.6	119	121	74-147	2	20		
Vinyl chloride	ug/L	<0.17	50	50	48.0	48.2	96	96	41-129	1	20		
4-Bromofluorobenzene (S)	%						100	100	70-130				
Dibromofluoromethane (S)	%						106	106	70-130				
Toluene-d8 (S)	%						100	100	70-130				

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40202467

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-G Pace Analytical Services - Green Bay

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE


Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40202467

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40202467001	MW-1R	EPA 8015B Modified	346511		
40202467002	MW-2	EPA 8015B Modified	346511		
40202467003	MW-4	EPA 8015B Modified	346511		
40202467004	MW-18R	EPA 8015B Modified	346511		
40202467005	MW-38	EPA 8015B Modified	346511		
40202467006	MW-41	EPA 8015B Modified	346511		
40202467007	MW-42	EPA 8015B Modified	346511		
40202467008	OP-14	EPA 8015B Modified	346511		
40202467009	DUP-1	EPA 8015B Modified	346511		
40202467001	MW-1R	EPA 6010	346363		
40202467002	MW-2	EPA 6010	346363		
40202467003	MW-4	EPA 6010	346363		
40202467004	MW-18R	EPA 6010	346363		
40202467005	MW-38	EPA 6010	346363		
40202467006	MW-41	EPA 6010	346363		
40202467007	MW-42	EPA 6010	346363		
40202467008	OP-14	EPA 6010	346363		
40202467009	DUP-1	EPA 6010	346363		
40202467001	MW-1R	EPA 8260	346325		
40202467002	MW-2	EPA 8260	346325		
40202467003	MW-4	EPA 8260	346325		
40202467004	MW-18R	EPA 8260	346325		
40202467005	MW-38	EPA 8260	346325		
40202467006	MW-41	EPA 8260	346325		
40202467007	MW-42	EPA 8260	346325		
40202467008	OP-14	EPA 8260	346325		
40202467009	DUP-1	EPA 8260	346325		
40202467010	TRIP	EPA 8260	346325		
40202467001	MW-1R	EPA 300.0	346345		
40202467002	MW-2	EPA 300.0	346345		
40202467003	MW-4	EPA 300.0	346345		
40202467004	MW-18R	EPA 300.0	346345		
40202467005	MW-38	EPA 300.0	346345		
40202467006	MW-41	EPA 300.0	346345		
40202467007	MW-42	EPA 300.0	346345		
40202467008	OP-14	EPA 300.0	346345		
40202467009	DUP-1	EPA 300.0	346345		
40202467001	MW-1R	SM 5310C	346506		
40202467002	MW-2	SM 5310C	346506		
40202467003	MW-4	SM 5310C	346506		
40202467004	MW-18R	SM 5310C	346506		
40202467005	MW-38	SM 5310C	346506		
40202467006	MW-41	SM 5310C	346506		
40202467007	MW-42	SM 5310C	346506		
40202467008	OP-14	SM 5310C	346506		
40202467009	DUP-1	SM 5310C	346506		

REPORT OF LABORATORY ANALYSIS

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 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 25Apr2018
	Document No.: F-GB-C-031-Rev.07	Issuing Authority: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: 62A
 Courier: CS Logistics Fed Ex Speedee UPS ^{1/27/20 MP}Waltco
 Client Pace Other: _____

Project # _____

WO# : 40202467



40202467

Tracking #: _____
 Custody Seal on Cooler/Box Present: yes no Seals intact: yes no
 Custody Seal on Samples Present: yes no Seals intact: yes no
 Packing Material: Bubble Wrap Bubble Bags None Other _____
 Thermometer Used SR - NA Type of Ice: Blue Dry None Samples on ice, cooling process has begun
 Cooler Temperature Uncorr: 20.5 /Corr: _____
 Temp Blank Present: yes no Biological Tissue is Frozen: yes no

Person examining contents:
 Date: 1/24/20
 Initials: MP

Temp should be above freezing to 6°C.
 Biota Samples may be received at ≤ 0°C.

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time: _____
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>438</u>		

Client Notification/ Resolution: _____ If checked, see attached form for additional comments
 Person Contacted: _____ Date/Time: _____
 Comments/ Resolution: _____

Project Manager Review: 62A Date: 1/27/20
Page 2 of 2
Page 39 of 39

April 24, 2020

Kevin Hedinger
GZA
17975 West Sarah Lane
Suite 100
Brookfield, WI 53045

RE: Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40206463

Dear Kevin Hedinger:

Enclosed are the analytical results for sample(s) received by the laboratory on April 18, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Green Bay

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Christopher Hyska
christopher.hyska@pacelabs.com
(920)469-2436
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40206463

Pace Analytical Services Green Bay

1241 Bellevue Street, Green Bay, WI 54302

Florida/NELAP Certification #: E87948

Illinois Certification #: 200050

Kentucky UST Certification #: 82

Louisiana Certification #: 04168

Minnesota Certification #: 055-999-334

New York Certification #: 12064

North Dakota Certification #: R-150

Virginia VELAP ID: 460263

South Carolina Certification #: 83006001

Texas Certification #: T104704529-14-1

Wisconsin Certification #: 405132750

Wisconsin DATCP Certification #: 105-444

USDA Soil Permit #: P330-16-00157

Federal Fish & Wildlife Permit #: LE51774A-0

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40206463

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40206463001	MW-2	Water	04/16/20 08:28	04/18/20 08:00
40206463002	MW-1R	Water	04/16/20 09:00	04/18/20 08:00
40206463003	MW-18R	Water	04/16/20 09:50	04/18/20 08:00
40206463004	DUP-1	Water	04/16/20 00:00	04/18/20 08:00
40206463005	MW-38	Water	04/16/20 10:22	04/18/20 08:00
40206463006	OP-14	Water	04/16/20 10:51	04/18/20 08:00
40206463007	MW-41	Water	04/16/20 11:47	04/18/20 08:00
40206463008	MW-42	Water	04/16/20 12:18	04/18/20 08:00
40206463009	TRIP	Water	04/16/20 00:00	04/18/20 08:00
40206463010	MW-4	Water	04/16/20 11:19	04/18/20 08:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40206463

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40206463001	MW-2	EPA 8015B Modified	ALD	3	PASI-G
		EPA 6010	TXW	1	PASI-G
		EPA 8260	HNW	64	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40206463002	MW-1R	EPA 8015B Modified	ALD	3	PASI-G
		EPA 6010	TXW	1	PASI-G
		EPA 8260	HNW	64	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40206463003	MW-18R	EPA 8015B Modified	ALD	3	PASI-G
		EPA 6010	TXW	1	PASI-G
		EPA 8260	HNW	64	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40206463004	DUP-1	EPA 8015B Modified	ALD	3	PASI-G
		EPA 6010	TXW	1	PASI-G
		EPA 8260	HNW	64	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40206463005	MW-38	EPA 8015B Modified	ALD	3	PASI-G
		EPA 6010	TXW	1	PASI-G
		EPA 8260	HNW	64	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40206463006	OP-14	EPA 8015B Modified	ALD	3	PASI-G
		EPA 6010	TXW	1	PASI-G
		EPA 8260	HNW	64	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40206463007	MW-41	EPA 8015B Modified	ALD	3	PASI-G
		EPA 6010	TXW	1	PASI-G
		EPA 8260	HNW	64	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40206463008	MW-42	EPA 8015B Modified	ALD	3	PASI-G
		EPA 6010	TXW	1	PASI-G

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40206463

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 8260	HNW	64	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40206463009	TRIP	EPA 8260	HNW	64	PASI-G
40206463010	MW-4	EPA 8015B Modified	ALD	3	PASI-G
		EPA 6010	TXW	1	PASI-G
		EPA 8260	HNW	64	PASI-G
		EPA 300.0	HMB	1	PASI-G
		SM 5310C	TJJ	1	PASI-G

PASI-G = Pace Analytical Services - Green Bay

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40206463

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
40206463001	MW-2					
EPA 8015B Modified	Methane	489	ug/L	7.0	04/21/20 12:41	
EPA 6010	Iron, Dissolved	4020	ug/L	100	04/24/20 00:31	
EPA 8260	1,1-Dichloroethane	5.3J	ug/L	10.0	04/24/20 10:48	
EPA 8260	Trichloroethene	9.2J	ug/L	10.0	04/24/20 10:48	
EPA 8260	Vinyl chloride	13.7	ug/L	10.0	04/24/20 10:48	
EPA 8260	cis-1,2-Dichloroethene	627	ug/L	10.0	04/24/20 10:48	
EPA 300.0	Sulfate	17.0	mg/L	2.0	04/21/20 12:53	
SM 5310C	Total Organic Carbon	99.6	mg/L	15.0	04/20/20 03:55	
40206463002	MW-1R					
EPA 8260	1,1,1-Trichloroethane	0.50J	ug/L	1.0	04/24/20 07:48	
EPA 8260	1,1-Dichloroethane	1.9	ug/L	1.0	04/24/20 07:48	
EPA 8260	Trichloroethene	0.89J	ug/L	1.0	04/24/20 10:03	
EPA 8260	cis-1,2-Dichloroethene	0.34J	ug/L	1.0	04/24/20 10:03	
EPA 300.0	Sulfate	323	mg/L	40.0	04/20/20 19:31	
SM 5310C	Total Organic Carbon	6.3	mg/L	3.0	04/20/20 04:16	
40206463003	MW-18R					
EPA 8015B Modified	Methane	625	ug/L	11.2	04/21/20 13:09	
EPA 8260	1,1-Dichloroethane	6.5J	ug/L	10.0	04/24/20 10:25	
EPA 8260	1,1-Dichloroethene	2.9J	ug/L	10.0	04/24/20 10:25	
EPA 8260	Trichloroethene	820	ug/L	10.0	04/24/20 10:25	
EPA 8260	Vinyl chloride	44.0	ug/L	10.0	04/24/20 10:25	
EPA 8260	cis-1,2-Dichloroethene	461	ug/L	10.0	04/24/20 10:25	
EPA 8260	trans-1,2-Dichloroethene	8.0J	ug/L	15.5	04/24/20 10:25	
EPA 300.0	Sulfate	84.9	mg/L	10.0	04/20/20 19:45	
SM 5310C	Total Organic Carbon	2.3	mg/L	0.50	04/20/20 04:37	
40206463004	DUP-1					
EPA 8015B Modified	Methane	111	ug/L	2.8	04/21/20 11:10	
EPA 6010	Iron, Dissolved	34000	ug/L	100	04/24/20 00:44	
EPA 8260	1,1-Dichloroethane	6.1J	ug/L	10.0	04/23/20 09:59	
EPA 8260	Trichloroethene	704	ug/L	10.0	04/23/20 09:59	
EPA 8260	cis-1,2-Dichloroethene	454	ug/L	10.0	04/23/20 09:59	
EPA 300.0	Sulfate	5.7J	mg/L	10.0	04/20/20 20:00	D3
SM 5310C	Total Organic Carbon	109	mg/L	15.0	04/20/20 04:58	
40206463005	MW-38					
EPA 300.0	Sulfate	78.9	mg/L	10.0	04/20/20 20:14	
SM 5310C	Total Organic Carbon	1.3	mg/L	0.50	04/20/20 05:19	
40206463006	OP-14					
EPA 6010	Iron, Dissolved	154	ug/L	100	04/24/20 00:53	
EPA 8260	1,1,1-Trichloroethane	1.7J	ug/L	4.0	04/23/20 10:22	
EPA 8260	Tetrachloroethene	4.4	ug/L	4.4	04/23/20 10:22	
EPA 8260	Trichloroethene	243	ug/L	4.0	04/23/20 10:22	
EPA 8260	cis-1,2-Dichloroethene	221	ug/L	4.0	04/23/20 10:22	
EPA 300.0	Sulfate	75.2	mg/L	10.0	04/20/20 20:28	
SM 5310C	Total Organic Carbon	4.8	mg/L	0.50	04/20/20 05:40	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40206463

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
40206463007	MW-41					
EPA 6010	Iron, Dissolved	44.4J	ug/L	100	04/24/20 00:56	
EPA 8260	1,1,1-Trichloroethane	1.7J	ug/L	2.0	04/23/20 10:44	
EPA 8260	1,1-Dichloroethane	1.7J	ug/L	2.0	04/23/20 10:44	
EPA 8260	Tetrachloroethene	1.1J	ug/L	2.2	04/23/20 10:44	
EPA 8260	Trichloroethene	157	ug/L	2.0	04/23/20 10:44	
EPA 8260	cis-1,2-Dichloroethene	332	ug/L	2.0	04/23/20 10:44	
EPA 300.0	Sulfate	33.5	mg/L	10.0	04/20/20 20:43	
SM 5310C	Total Organic Carbon	3.2	mg/L	1.0	04/20/20 06:01	
40206463008	MW-42					
EPA 8015B Modified	Methane	196	ug/L	2.8	04/21/20 11:38	
EPA 6010	Iron, Dissolved	35600	ug/L	100	04/24/20 00:58	
EPA 8260	1,1,1-Trichloroethane	1.8J	ug/L	5.0	04/23/20 08:29	
EPA 8260	1,1-Dichloroethane	6.0	ug/L	5.0	04/23/20 08:29	
EPA 8260	1,1-Dichloroethene	2.4J	ug/L	5.0	04/23/20 08:29	
EPA 8260	Trichloroethene	567	ug/L	5.0	04/23/20 08:29	
EPA 8260	Vinyl chloride	1.7J	ug/L	5.0	04/23/20 08:29	
EPA 8260	cis-1,2-Dichloroethene	441	ug/L	5.0	04/23/20 08:29	
EPA 300.0	Sulfate	5.3J	mg/L	10.0	04/20/20 20:57	D3
SM 5310C	Total Organic Carbon	113	mg/L	30.0	04/20/20 06:21	
40206463010	MW-4					
EPA 8260	1,1,1-Trichloroethane	2.8	ug/L	2.5	04/22/20 15:49	
EPA 8260	1,1-Dichloroethane	1.1J	ug/L	2.5	04/22/20 15:49	
EPA 8260	1,1-Dichloroethene	1.0J	ug/L	2.5	04/22/20 15:49	
EPA 8260	Tetrachloroethene	2.7J	ug/L	2.7	04/22/20 15:49	
EPA 8260	Trichloroethene	161	ug/L	2.5	04/22/20 15:49	
EPA 8260	cis-1,2-Dichloroethene	178	ug/L	2.5	04/22/20 15:49	
EPA 300.0	Sulfate	31.8	mg/L	10.0	04/20/20 21:11	
SM 5310C	Total Organic Carbon	2.7	mg/L	0.50	04/20/20 07:03	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40206463

Sample: MW-2 **Lab ID: 40206463001** Collected: 04/16/20 08:28 Received: 04/18/20 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV									
Analytical Method: EPA 8015B Modified									
Pace Analytical Services - Green Bay									
Ethane	<1.2	ug/L	5.6	1.2	1		04/21/20 10:26	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		04/21/20 10:26	74-85-1	
Methane	489	ug/L	7.0	1.7	2.5		04/21/20 12:41	74-82-8	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010									
Pace Analytical Services - Green Bay									
Iron, Dissolved	4020	ug/L	100	29.6	1		04/24/20 00:31	7439-89-6	
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<2.7	ug/L	10.0	2.7	10		04/24/20 10:48	630-20-6	
1,1,1-Trichloroethane	<2.4	ug/L	10.0	2.4	10		04/24/20 10:48	71-55-6	
1,1,2,2-Tetrachloroethane	<2.8	ug/L	10.0	2.8	10		04/24/20 10:48	79-34-5	
1,1,2-Trichloroethane	<5.5	ug/L	50.0	5.5	10		04/24/20 10:48	79-00-5	
1,1-Dichloroethane	5.3J	ug/L	10.0	2.7	10		04/24/20 10:48	75-34-3	
1,1-Dichloroethene	<2.4	ug/L	10.0	2.4	10		04/24/20 10:48	75-35-4	
1,1-Dichloropropene	<5.4	ug/L	18.0	5.4	10		04/24/20 10:48	563-58-6	
1,2,3-Trichlorobenzene	<22.1	ug/L	73.7	22.1	10		04/24/20 10:48	87-61-6	
1,2,3-Trichloropropane	<5.9	ug/L	50.0	5.9	10		04/24/20 10:48	96-18-4	
1,2,4-Trichlorobenzene	<9.5	ug/L	50.0	9.5	10		04/24/20 10:48	120-82-1	
1,2,4-Trimethylbenzene	<8.4	ug/L	28.0	8.4	10		04/24/20 10:48	95-63-6	
1,2-Dibromo-3-chloropropane	<17.6	ug/L	58.8	17.6	10		04/24/20 10:48	96-12-8	
1,2-Dibromoethane (EDB)	<8.3	ug/L	27.6	8.3	10		04/24/20 10:48	106-93-4	
1,2-Dichlorobenzene	<7.1	ug/L	23.5	7.1	10		04/24/20 10:48	95-50-1	
1,2-Dichloroethane	<2.8	ug/L	10.0	2.8	10		04/24/20 10:48	107-06-2	
1,2-Dichloropropane	<2.8	ug/L	10.0	2.8	10		04/24/20 10:48	78-87-5	
1,3,5-Trimethylbenzene	<8.7	ug/L	29.1	8.7	10		04/24/20 10:48	108-67-8	
1,3-Dichlorobenzene	<6.3	ug/L	20.9	6.3	10		04/24/20 10:48	541-73-1	
1,3-Dichloropropane	<8.3	ug/L	27.5	8.3	10		04/24/20 10:48	142-28-9	
1,4-Dichlorobenzene	<9.4	ug/L	31.5	9.4	10		04/24/20 10:48	106-46-7	
2,2-Dichloropropane	<22.7	ug/L	75.5	22.7	10		04/24/20 10:48	594-20-7	
2-Chlorotoluene	<9.3	ug/L	50.0	9.3	10		04/24/20 10:48	95-49-8	
4-Chlorotoluene	<7.6	ug/L	25.2	7.6	10		04/24/20 10:48	106-43-4	
Benzene	<2.5	ug/L	10.0	2.5	10		04/24/20 10:48	71-43-2	
Bromobenzene	<2.4	ug/L	10.0	2.4	10		04/24/20 10:48	108-86-1	
Bromochloromethane	<3.6	ug/L	50.0	3.6	10		04/24/20 10:48	74-97-5	
Bromodichloromethane	<3.6	ug/L	12.1	3.6	10		04/24/20 10:48	75-27-4	
Bromoform	<39.7	ug/L	132	39.7	10		04/24/20 10:48	75-25-2	
Bromomethane	<9.7	ug/L	50.0	9.7	10		04/24/20 10:48	74-83-9	
Carbon tetrachloride	<10.8	ug/L	35.9	10.8	10		04/24/20 10:48	56-23-5	
Chlorobenzene	<7.1	ug/L	23.7	7.1	10		04/24/20 10:48	108-90-7	
Chloroethane	<13.4	ug/L	50.0	13.4	10		04/24/20 10:48	75-00-3	
Chloroform	<12.7	ug/L	50.0	12.7	10		04/24/20 10:48	67-66-3	
Chloromethane	<21.9	ug/L	73.0	21.9	10		04/24/20 10:48	74-87-3	
Dibromochloromethane	<26.0	ug/L	86.7	26.0	10		04/24/20 10:48	124-48-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40206463

Sample: MW-2 **Lab ID: 40206463001** Collected: 04/16/20 08:28 Received: 04/18/20 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Dibromomethane	<9.4	ug/L	31.2	9.4	10		04/24/20 10:48	74-95-3	
Dichlorodifluoromethane	<5.0	ug/L	50.0	5.0	10		04/24/20 10:48	75-71-8	
Diisopropyl ether	<18.9	ug/L	62.9	18.9	10		04/24/20 10:48	108-20-3	
Ethylbenzene	<3.2	ug/L	10.6	3.2	10		04/24/20 10:48	100-41-4	
Hexachloro-1,3-butadiene	<14.6	ug/L	48.8	14.6	10		04/24/20 10:48	87-68-3	
Isopropylbenzene (Cumene)	<16.9	ug/L	56.2	16.9	10		04/24/20 10:48	98-82-8	
Methyl-tert-butyl ether	<12.5	ug/L	41.5	12.5	10		04/24/20 10:48	1634-04-4	
Methylene Chloride	<5.8	ug/L	50.0	5.8	10		04/24/20 10:48	75-09-2	
Naphthalene	<11.8	ug/L	50.0	11.8	10		04/24/20 10:48	91-20-3	
Styrene	<30.1	ug/L	100	30.1	10		04/24/20 10:48	100-42-5	
Tetrachloroethene	<3.3	ug/L	10.9	3.3	10		04/24/20 10:48	127-18-4	
Toluene	<2.7	ug/L	9.0	2.7	10		04/24/20 10:48	108-88-3	
Trichloroethene	9.2J	ug/L	10.0	2.6	10		04/24/20 10:48	79-01-6	
Trichlorofluoromethane	<2.1	ug/L	10.0	2.1	10		04/24/20 10:48	75-69-4	
Vinyl chloride	13.7	ug/L	10.0	1.7	10		04/24/20 10:48	75-01-4	
cis-1,2-Dichloroethene	627	ug/L	10.0	2.7	10		04/24/20 10:48	156-59-2	
cis-1,3-Dichloropropene	<36.3	ug/L	121	36.3	10		04/24/20 10:48	10061-01-5	
m&p-Xylene	<4.7	ug/L	20.0	4.7	10		04/24/20 10:48	179601-23-1	
n-Butylbenzene	<7.1	ug/L	23.6	7.1	10		04/24/20 10:48	104-51-8	
n-Propylbenzene	<8.1	ug/L	50.0	8.1	10		04/24/20 10:48	103-65-1	
o-Xylene	<2.6	ug/L	10.0	2.6	10		04/24/20 10:48	95-47-6	
p-Isopropyltoluene	<8.0	ug/L	26.7	8.0	10		04/24/20 10:48	99-87-6	
sec-Butylbenzene	<8.5	ug/L	50.0	8.5	10		04/24/20 10:48	135-98-8	
tert-Butylbenzene	<3.0	ug/L	10.1	3.0	10		04/24/20 10:48	98-06-6	
trans-1,2-Dichloroethene	<4.6	ug/L	15.5	4.6	10		04/24/20 10:48	156-60-5	
trans-1,3-Dichloropropene	<43.7	ug/L	146	43.7	10		04/24/20 10:48	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		10		04/24/20 10:48	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		10		04/24/20 10:48	1868-53-7	
Toluene-d8 (S)	102	%	70-130		10		04/24/20 10:48	2037-26-5	
300.0 IC Anions									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Sulfate	17.0	mg/L	2.0	0.44	1		04/21/20 12:53	14808-79-8	
5310C TOC									
Analytical Method: SM 5310C									
Pace Analytical Services - Green Bay									
Total Organic Carbon	99.6	mg/L	15.0	4.5	30		04/20/20 03:55	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40206463

Sample: MW-1R **Lab ID: 40206463002** Collected: 04/16/20 09:00 Received: 04/18/20 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV									
Analytical Method: EPA 8015B Modified									
Pace Analytical Services - Green Bay									
Ethane	<1.2	ug/L	5.6	1.2	1		04/21/20 12:28	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		04/21/20 12:28	74-85-1	
Methane	<0.66	ug/L	2.8	0.66	1		04/21/20 12:28	74-82-8	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010									
Pace Analytical Services - Green Bay									
Iron, Dissolved	<29.6	ug/L	100	29.6	1		04/24/20 00:39	7439-89-6	
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		04/24/20 07:48	630-20-6	
1,1,1-Trichloroethane	0.50J	ug/L	1.0	0.24	1		04/24/20 07:48	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		04/24/20 07:48	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		04/24/20 07:48	79-00-5	
1,1-Dichloroethane	1.9	ug/L	1.0	0.27	1		04/24/20 07:48	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		04/24/20 07:48	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		04/24/20 07:48	563-58-6	
1,2,3-Trichlorobenzene	<2.2	ug/L	7.4	2.2	1		04/24/20 07:48	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		04/24/20 07:48	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		04/24/20 07:48	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		04/24/20 07:48	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		04/24/20 07:48	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		04/24/20 07:48	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		04/24/20 07:48	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		04/24/20 07:48	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		04/24/20 07:48	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		04/24/20 07:48	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		04/24/20 07:48	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		04/24/20 07:48	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		04/24/20 07:48	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		04/24/20 07:48	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		04/24/20 07:48	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		04/24/20 07:48	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		04/24/20 07:48	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		04/24/20 07:48	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		04/24/20 07:48	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		04/24/20 07:48	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		04/24/20 07:48	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		04/24/20 07:48	74-83-9	
Carbon tetrachloride	<1.1	ug/L	3.6	1.1	1		04/24/20 07:48	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		04/24/20 07:48	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		04/24/20 07:48	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		04/24/20 07:48	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		04/24/20 07:48	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		04/24/20 07:48	124-48-1	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40206463

Sample: MW-1R **Lab ID: 40206463002** Collected: 04/16/20 09:00 Received: 04/18/20 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Dibromomethane	<0.94	ug/L	3.1	0.94	1		04/24/20 07:48	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		04/24/20 07:48	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		04/24/20 07:48	108-20-3	
Ethylbenzene	<0.32	ug/L	1.1	0.32	1		04/24/20 07:48	100-41-4	
Hexachloro-1,3-butadiene	<1.5	ug/L	4.9	1.5	1		04/24/20 07:48	87-68-3	
Isopropylbenzene (Cumene)	<1.7	ug/L	5.6	1.7	1		04/24/20 07:48	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		04/24/20 07:48	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		04/24/20 07:48	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		04/24/20 07:48	91-20-3	
Styrene	<3.0	ug/L	10.0	3.0	1		04/24/20 07:48	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		04/24/20 10:03	127-18-4	
Toluene	<0.27	ug/L	0.90	0.27	1		04/24/20 07:48	108-88-3	
Trichloroethene	0.89J	ug/L	1.0	0.26	1		04/24/20 10:03	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		04/24/20 07:48	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		04/24/20 07:48	75-01-4	
cis-1,2-Dichloroethene	0.34J	ug/L	1.0	0.27	1		04/24/20 10:03	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		04/24/20 07:48	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		04/24/20 07:48	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		04/24/20 07:48	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		04/24/20 07:48	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		04/24/20 07:48	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		04/24/20 07:48	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		04/24/20 07:48	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		04/24/20 07:48	98-06-6	
trans-1,2-Dichloroethene	<0.46	ug/L	1.5	0.46	1		04/24/20 07:48	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		04/24/20 07:48	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		04/24/20 10:03	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		1		04/24/20 10:03	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		04/24/20 10:03	2037-26-5	
300.0 IC Anions									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Sulfate	323	mg/L	40.0	8.9	20		04/20/20 19:31	14808-79-8	
5310C TOC									
Analytical Method: SM 5310C									
Pace Analytical Services - Green Bay									
Total Organic Carbon	6.3	mg/L	3.0	0.89	6		04/20/20 04:16	7440-44-0	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40206463

Sample: MW-18R **Lab ID: 40206463003** Collected: 04/16/20 09:50 Received: 04/18/20 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV									
Analytical Method: EPA 8015B Modified									
Pace Analytical Services - Green Bay									
Ethane	<1.2	ug/L	5.6	1.2	1		04/21/20 11:03	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		04/21/20 11:03	74-85-1	
Methane	625	ug/L	11.2	2.7	4		04/21/20 13:09	74-82-8	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010									
Pace Analytical Services - Green Bay									
Iron, Dissolved	<29.6	ug/L	100	29.6	1		04/24/20 00:41	7439-89-6	
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<2.7	ug/L	10.0	2.7	10		04/24/20 10:25	630-20-6	
1,1,1-Trichloroethane	<2.4	ug/L	10.0	2.4	10		04/24/20 10:25	71-55-6	
1,1,2,2-Tetrachloroethane	<2.8	ug/L	10.0	2.8	10		04/24/20 10:25	79-34-5	
1,1,2-Trichloroethane	<5.5	ug/L	50.0	5.5	10		04/24/20 10:25	79-00-5	
1,1-Dichloroethane	6.5J	ug/L	10.0	2.7	10		04/24/20 10:25	75-34-3	
1,1-Dichloroethene	2.9J	ug/L	10.0	2.4	10		04/24/20 10:25	75-35-4	
1,1-Dichloropropene	<5.4	ug/L	18.0	5.4	10		04/24/20 10:25	563-58-6	
1,2,3-Trichlorobenzene	<22.1	ug/L	73.7	22.1	10		04/24/20 10:25	87-61-6	
1,2,3-Trichloropropane	<5.9	ug/L	50.0	5.9	10		04/24/20 10:25	96-18-4	
1,2,4-Trichlorobenzene	<9.5	ug/L	50.0	9.5	10		04/24/20 10:25	120-82-1	
1,2,4-Trimethylbenzene	<8.4	ug/L	28.0	8.4	10		04/24/20 10:25	95-63-6	
1,2-Dibromo-3-chloropropane	<17.6	ug/L	58.8	17.6	10		04/24/20 10:25	96-12-8	
1,2-Dibromoethane (EDB)	<8.3	ug/L	27.6	8.3	10		04/24/20 10:25	106-93-4	
1,2-Dichlorobenzene	<7.1	ug/L	23.5	7.1	10		04/24/20 10:25	95-50-1	
1,2-Dichloroethane	<2.8	ug/L	10.0	2.8	10		04/24/20 10:25	107-06-2	
1,2-Dichloropropane	<2.8	ug/L	10.0	2.8	10		04/24/20 10:25	78-87-5	
1,3,5-Trimethylbenzene	<8.7	ug/L	29.1	8.7	10		04/24/20 10:25	108-67-8	
1,3-Dichlorobenzene	<6.3	ug/L	20.9	6.3	10		04/24/20 10:25	541-73-1	
1,3-Dichloropropane	<8.3	ug/L	27.5	8.3	10		04/24/20 10:25	142-28-9	
1,4-Dichlorobenzene	<9.4	ug/L	31.5	9.4	10		04/24/20 10:25	106-46-7	
2,2-Dichloropropane	<22.7	ug/L	75.5	22.7	10		04/24/20 10:25	594-20-7	
2-Chlorotoluene	<9.3	ug/L	50.0	9.3	10		04/24/20 10:25	95-49-8	
4-Chlorotoluene	<7.6	ug/L	25.2	7.6	10		04/24/20 10:25	106-43-4	
Benzene	<2.5	ug/L	10.0	2.5	10		04/24/20 10:25	71-43-2	
Bromobenzene	<2.4	ug/L	10.0	2.4	10		04/24/20 10:25	108-86-1	
Bromochloromethane	<3.6	ug/L	50.0	3.6	10		04/24/20 10:25	74-97-5	
Bromodichloromethane	<3.6	ug/L	12.1	3.6	10		04/24/20 10:25	75-27-4	
Bromoform	<39.7	ug/L	132	39.7	10		04/24/20 10:25	75-25-2	
Bromomethane	<9.7	ug/L	50.0	9.7	10		04/24/20 10:25	74-83-9	
Carbon tetrachloride	<10.8	ug/L	35.9	10.8	10		04/24/20 10:25	56-23-5	
Chlorobenzene	<7.1	ug/L	23.7	7.1	10		04/24/20 10:25	108-90-7	
Chloroethane	<13.4	ug/L	50.0	13.4	10		04/24/20 10:25	75-00-3	
Chloroform	<12.7	ug/L	50.0	12.7	10		04/24/20 10:25	67-66-3	
Chloromethane	<21.9	ug/L	73.0	21.9	10		04/24/20 10:25	74-87-3	
Dibromochloromethane	<26.0	ug/L	86.7	26.0	10		04/24/20 10:25	124-48-1	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40206463

Sample: MW-18R **Lab ID: 40206463003** Collected: 04/16/20 09:50 Received: 04/18/20 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Dibromomethane	<9.4	ug/L	31.2	9.4	10		04/24/20 10:25	74-95-3	
Dichlorodifluoromethane	<5.0	ug/L	50.0	5.0	10		04/24/20 10:25	75-71-8	
Diisopropyl ether	<18.9	ug/L	62.9	18.9	10		04/24/20 10:25	108-20-3	
Ethylbenzene	<3.2	ug/L	10.6	3.2	10		04/24/20 10:25	100-41-4	
Hexachloro-1,3-butadiene	<14.6	ug/L	48.8	14.6	10		04/24/20 10:25	87-68-3	
Isopropylbenzene (Cumene)	<16.9	ug/L	56.2	16.9	10		04/24/20 10:25	98-82-8	
Methyl-tert-butyl ether	<12.5	ug/L	41.5	12.5	10		04/24/20 10:25	1634-04-4	
Methylene Chloride	<5.8	ug/L	50.0	5.8	10		04/24/20 10:25	75-09-2	
Naphthalene	<11.8	ug/L	50.0	11.8	10		04/24/20 10:25	91-20-3	
Styrene	<30.1	ug/L	100	30.1	10		04/24/20 10:25	100-42-5	
Tetrachloroethene	<3.3	ug/L	10.9	3.3	10		04/24/20 10:25	127-18-4	
Toluene	<2.7	ug/L	9.0	2.7	10		04/24/20 10:25	108-88-3	
Trichloroethene	820	ug/L	10.0	2.6	10		04/24/20 10:25	79-01-6	
Trichlorofluoromethane	<2.1	ug/L	10.0	2.1	10		04/24/20 10:25	75-69-4	
Vinyl chloride	44.0	ug/L	10.0	1.7	10		04/24/20 10:25	75-01-4	
cis-1,2-Dichloroethene	461	ug/L	10.0	2.7	10		04/24/20 10:25	156-59-2	
cis-1,3-Dichloropropene	<36.3	ug/L	121	36.3	10		04/24/20 10:25	10061-01-5	
m&p-Xylene	<4.7	ug/L	20.0	4.7	10		04/24/20 10:25	179601-23-1	
n-Butylbenzene	<7.1	ug/L	23.6	7.1	10		04/24/20 10:25	104-51-8	
n-Propylbenzene	<8.1	ug/L	50.0	8.1	10		04/24/20 10:25	103-65-1	
o-Xylene	<2.6	ug/L	10.0	2.6	10		04/24/20 10:25	95-47-6	
p-Isopropyltoluene	<8.0	ug/L	26.7	8.0	10		04/24/20 10:25	99-87-6	
sec-Butylbenzene	<8.5	ug/L	50.0	8.5	10		04/24/20 10:25	135-98-8	
tert-Butylbenzene	<3.0	ug/L	10.1	3.0	10		04/24/20 10:25	98-06-6	
trans-1,2-Dichloroethene	8.0J	ug/L	15.5	4.6	10		04/24/20 10:25	156-60-5	
trans-1,3-Dichloropropene	<43.7	ug/L	146	43.7	10		04/24/20 10:25	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		10		04/24/20 10:25	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		10		04/24/20 10:25	1868-53-7	
Toluene-d8 (S)	102	%	70-130		10		04/24/20 10:25	2037-26-5	
300.0 IC Anions									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Sulfate	84.9	mg/L	10.0	2.2	5		04/20/20 19:45	14808-79-8	
5310C TOC									
Analytical Method: SM 5310C									
Pace Analytical Services - Green Bay									
Total Organic Carbon	2.3	mg/L	0.50	0.15	1		04/20/20 04:37	7440-44-0	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40206463

Sample: DUP-1 **Lab ID:** 40206463004 Collected: 04/16/20 00:00 Received: 04/18/20 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV									
Analytical Method: EPA 8015B Modified									
Pace Analytical Services - Green Bay									
Ethane	<1.2	ug/L	5.6	1.2	1		04/21/20 11:10	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		04/21/20 11:10	74-85-1	
Methane	111	ug/L	2.8	0.66	1		04/21/20 11:10	74-82-8	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010									
Pace Analytical Services - Green Bay									
Iron, Dissolved	34000	ug/L	100	29.6	1		04/24/20 00:44	7439-89-6	
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<2.7	ug/L	10.0	2.7	10		04/23/20 09:59	630-20-6	
1,1,1-Trichloroethane	<2.4	ug/L	10.0	2.4	10		04/23/20 09:59	71-55-6	
1,1,2,2-Tetrachloroethane	<2.8	ug/L	10.0	2.8	10		04/23/20 09:59	79-34-5	
1,1,2-Trichloroethane	<5.5	ug/L	50.0	5.5	10		04/23/20 09:59	79-00-5	
1,1-Dichloroethane	6.1J	ug/L	10.0	2.7	10		04/23/20 09:59	75-34-3	
1,1-Dichloroethene	<2.4	ug/L	10.0	2.4	10		04/23/20 09:59	75-35-4	
1,1-Dichloropropene	<5.4	ug/L	18.0	5.4	10		04/23/20 09:59	563-58-6	
1,2,3-Trichlorobenzene	<22.1	ug/L	73.7	22.1	10		04/23/20 09:59	87-61-6	
1,2,3-Trichloropropane	<5.9	ug/L	50.0	5.9	10		04/23/20 09:59	96-18-4	
1,2,4-Trichlorobenzene	<9.5	ug/L	50.0	9.5	10		04/23/20 09:59	120-82-1	
1,2,4-Trimethylbenzene	<8.4	ug/L	28.0	8.4	10		04/23/20 09:59	95-63-6	
1,2-Dibromo-3-chloropropane	<17.6	ug/L	58.8	17.6	10		04/23/20 09:59	96-12-8	
1,2-Dibromoethane (EDB)	<8.3	ug/L	27.6	8.3	10		04/23/20 09:59	106-93-4	
1,2-Dichlorobenzene	<7.1	ug/L	23.5	7.1	10		04/23/20 09:59	95-50-1	
1,2-Dichloroethane	<2.8	ug/L	10.0	2.8	10		04/23/20 09:59	107-06-2	
1,2-Dichloropropane	<2.8	ug/L	10.0	2.8	10		04/23/20 09:59	78-87-5	
1,3,5-Trimethylbenzene	<8.7	ug/L	29.1	8.7	10		04/23/20 09:59	108-67-8	
1,3-Dichlorobenzene	<6.3	ug/L	20.9	6.3	10		04/23/20 09:59	541-73-1	
1,3-Dichloropropane	<8.3	ug/L	27.5	8.3	10		04/23/20 09:59	142-28-9	
1,4-Dichlorobenzene	<9.4	ug/L	31.5	9.4	10		04/23/20 09:59	106-46-7	
2,2-Dichloropropane	<22.7	ug/L	75.5	22.7	10		04/23/20 09:59	594-20-7	
2-Chlorotoluene	<9.3	ug/L	50.0	9.3	10		04/23/20 09:59	95-49-8	
4-Chlorotoluene	<7.6	ug/L	25.2	7.6	10		04/23/20 09:59	106-43-4	
Benzene	<2.5	ug/L	10.0	2.5	10		04/23/20 09:59	71-43-2	
Bromobenzene	<2.4	ug/L	10.0	2.4	10		04/23/20 09:59	108-86-1	
Bromochloromethane	<3.6	ug/L	50.0	3.6	10		04/23/20 09:59	74-97-5	
Bromodichloromethane	<3.6	ug/L	12.1	3.6	10		04/23/20 09:59	75-27-4	
Bromoform	<39.7	ug/L	132	39.7	10		04/23/20 09:59	75-25-2	
Bromomethane	<9.7	ug/L	50.0	9.7	10		04/23/20 09:59	74-83-9	
Carbon tetrachloride	<10.8	ug/L	35.9	10.8	10		04/23/20 09:59	56-23-5	
Chlorobenzene	<7.1	ug/L	23.7	7.1	10		04/23/20 09:59	108-90-7	
Chloroethane	<13.4	ug/L	50.0	13.4	10		04/23/20 09:59	75-00-3	
Chloroform	<12.7	ug/L	50.0	12.7	10		04/23/20 09:59	67-66-3	
Chloromethane	<21.9	ug/L	73.0	21.9	10		04/23/20 09:59	74-87-3	
Dibromochloromethane	<26.0	ug/L	86.7	26.0	10		04/23/20 09:59	124-48-1	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40206463

Sample: DUP-1 **Lab ID:** 40206463004 Collected: 04/16/20 00:00 Received: 04/18/20 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Dibromomethane	<9.4	ug/L	31.2	9.4	10		04/23/20 09:59	74-95-3	
Dichlorodifluoromethane	<5.0	ug/L	50.0	5.0	10		04/23/20 09:59	75-71-8	
Diisopropyl ether	<18.9	ug/L	62.9	18.9	10		04/23/20 09:59	108-20-3	
Ethylbenzene	<3.2	ug/L	10.6	3.2	10		04/23/20 09:59	100-41-4	
Hexachloro-1,3-butadiene	<14.6	ug/L	48.8	14.6	10		04/23/20 09:59	87-68-3	
Isopropylbenzene (Cumene)	<16.9	ug/L	56.2	16.9	10		04/23/20 09:59	98-82-8	
Methyl-tert-butyl ether	<12.5	ug/L	41.5	12.5	10		04/23/20 09:59	1634-04-4	
Methylene Chloride	<5.8	ug/L	50.0	5.8	10		04/23/20 09:59	75-09-2	
Naphthalene	<11.8	ug/L	50.0	11.8	10		04/23/20 09:59	91-20-3	
Styrene	<30.1	ug/L	100	30.1	10		04/23/20 09:59	100-42-5	
Tetrachloroethene	<3.3	ug/L	10.9	3.3	10		04/23/20 09:59	127-18-4	
Toluene	<2.7	ug/L	9.0	2.7	10		04/23/20 09:59	108-88-3	
Trichloroethene	704	ug/L	10.0	2.6	10		04/23/20 09:59	79-01-6	
Trichlorofluoromethane	<2.1	ug/L	10.0	2.1	10		04/23/20 09:59	75-69-4	
Vinyl chloride	<1.7	ug/L	10.0	1.7	10		04/23/20 09:59	75-01-4	
cis-1,2-Dichloroethene	454	ug/L	10.0	2.7	10		04/23/20 09:59	156-59-2	
cis-1,3-Dichloropropene	<36.3	ug/L	121	36.3	10		04/23/20 09:59	10061-01-5	
m&p-Xylene	<4.7	ug/L	20.0	4.7	10		04/23/20 09:59	179601-23-1	
n-Butylbenzene	<7.1	ug/L	23.6	7.1	10		04/23/20 09:59	104-51-8	
n-Propylbenzene	<8.1	ug/L	50.0	8.1	10		04/23/20 09:59	103-65-1	
o-Xylene	<2.6	ug/L	10.0	2.6	10		04/23/20 09:59	95-47-6	
p-Isopropyltoluene	<8.0	ug/L	26.7	8.0	10		04/23/20 09:59	99-87-6	
sec-Butylbenzene	<8.5	ug/L	50.0	8.5	10		04/23/20 09:59	135-98-8	
tert-Butylbenzene	<3.0	ug/L	10.1	3.0	10		04/23/20 09:59	98-06-6	
trans-1,2-Dichloroethene	<4.6	ug/L	15.5	4.6	10		04/23/20 09:59	156-60-5	
trans-1,3-Dichloropropene	<43.7	ug/L	146	43.7	10		04/23/20 09:59	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		10		04/23/20 09:59	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		10		04/23/20 09:59	1868-53-7	
Toluene-d8 (S)	101	%	70-130		10		04/23/20 09:59	2037-26-5	
300.0 IC Anions									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Sulfate	5.7J	mg/L	10.0	2.2	5		04/20/20 20:00	14808-79-8	D3
5310C TOC									
Analytical Method: SM 5310C									
Pace Analytical Services - Green Bay									
Total Organic Carbon	109	mg/L	15.0	4.5	30		04/20/20 04:58	7440-44-0	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40206463

Sample: MW-38 **Lab ID: 40206463005** Collected: 04/16/20 10:22 Received: 04/18/20 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV									
Analytical Method: EPA 8015B Modified									
Pace Analytical Services - Green Bay									
Ethane	<1.2	ug/L	5.6	1.2	1		04/21/20 11:17	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		04/21/20 11:17	74-85-1	
Methane	<0.66	ug/L	2.8	0.66	1		04/21/20 11:17	74-82-8	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010									
Pace Analytical Services - Green Bay									
Iron, Dissolved	<29.6	ug/L	100	29.6	1		04/24/20 00:46	7439-89-6	
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		04/23/20 07:45	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		04/23/20 07:45	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		04/23/20 07:45	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		04/23/20 07:45	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		04/23/20 07:45	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		04/23/20 07:45	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		04/23/20 07:45	563-58-6	
1,2,3-Trichlorobenzene	<2.2	ug/L	7.4	2.2	1		04/23/20 07:45	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		04/23/20 07:45	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		04/23/20 07:45	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		04/23/20 07:45	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		04/23/20 07:45	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		04/23/20 07:45	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		04/23/20 07:45	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		04/23/20 07:45	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		04/23/20 07:45	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		04/23/20 07:45	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		04/23/20 07:45	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		04/23/20 07:45	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		04/23/20 07:45	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		04/23/20 07:45	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		04/23/20 07:45	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		04/23/20 07:45	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		04/23/20 07:45	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		04/23/20 07:45	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		04/23/20 07:45	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		04/23/20 07:45	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		04/23/20 07:45	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		04/23/20 07:45	74-83-9	
Carbon tetrachloride	<1.1	ug/L	3.6	1.1	1		04/23/20 07:45	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		04/23/20 07:45	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		04/23/20 07:45	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		04/23/20 07:45	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		04/23/20 07:45	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		04/23/20 07:45	124-48-1	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40206463

Sample: MW-38 **Lab ID: 40206463005** Collected: 04/16/20 10:22 Received: 04/18/20 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Dibromomethane	<0.94	ug/L	3.1	0.94	1		04/23/20 07:45	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		04/23/20 07:45	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		04/23/20 07:45	108-20-3	
Ethylbenzene	<0.32	ug/L	1.1	0.32	1		04/23/20 07:45	100-41-4	
Hexachloro-1,3-butadiene	<1.5	ug/L	4.9	1.5	1		04/23/20 07:45	87-68-3	
Isopropylbenzene (Cumene)	<1.7	ug/L	5.6	1.7	1		04/23/20 07:45	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		04/23/20 07:45	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		04/23/20 07:45	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		04/23/20 07:45	91-20-3	
Styrene	<3.0	ug/L	10.0	3.0	1		04/23/20 07:45	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		04/23/20 07:45	127-18-4	
Toluene	<0.27	ug/L	0.90	0.27	1		04/23/20 07:45	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		04/23/20 07:45	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		04/23/20 07:45	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		04/23/20 07:45	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		04/23/20 07:45	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		04/23/20 07:45	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		04/23/20 07:45	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		04/23/20 07:45	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		04/23/20 07:45	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		04/23/20 07:45	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		04/23/20 07:45	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		04/23/20 07:45	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		04/23/20 07:45	98-06-6	
trans-1,2-Dichloroethene	<0.46	ug/L	1.5	0.46	1		04/23/20 07:45	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		04/23/20 07:45	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		04/23/20 07:45	460-00-4	
Dibromofluoromethane (S)	106	%	70-130		1		04/23/20 07:45	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		04/23/20 07:45	2037-26-5	
300.0 IC Anions									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Sulfate	78.9	mg/L	10.0	2.2	5		04/20/20 20:14	14808-79-8	
5310C TOC									
Analytical Method: SM 5310C									
Pace Analytical Services - Green Bay									
Total Organic Carbon	1.3	mg/L	0.50	0.15	1		04/20/20 05:19	7440-44-0	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40206463

Sample: OP-14 **Lab ID: 40206463006** Collected: 04/16/20 10:51 Received: 04/18/20 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV									
Analytical Method: EPA 8015B Modified									
Pace Analytical Services - Green Bay									
Ethane	<1.2	ug/L	5.6	1.2	1		04/21/20 11:24	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		04/21/20 11:24	74-85-1	
Methane	<0.66	ug/L	2.8	0.66	1		04/21/20 11:24	74-82-8	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010									
Pace Analytical Services - Green Bay									
Iron, Dissolved	154	ug/L	100	29.6	1		04/24/20 00:53	7439-89-6	
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<1.1	ug/L	4.0	1.1	4		04/23/20 10:22	630-20-6	
1,1,1-Trichloroethane	1.7J	ug/L	4.0	0.98	4		04/23/20 10:22	71-55-6	
1,1,2,2-Tetrachloroethane	<1.1	ug/L	4.0	1.1	4		04/23/20 10:22	79-34-5	
1,1,2-Trichloroethane	<2.2	ug/L	20.0	2.2	4		04/23/20 10:22	79-00-5	
1,1-Dichloroethane	<1.1	ug/L	4.0	1.1	4		04/23/20 10:22	75-34-3	
1,1-Dichloroethene	<0.98	ug/L	4.0	0.98	4		04/23/20 10:22	75-35-4	
1,1-Dichloropropene	<2.2	ug/L	7.2	2.2	4		04/23/20 10:22	563-58-6	
1,2,3-Trichlorobenzene	<8.8	ug/L	29.5	8.8	4		04/23/20 10:22	87-61-6	
1,2,3-Trichloropropane	<2.4	ug/L	20.0	2.4	4		04/23/20 10:22	96-18-4	
1,2,4-Trichlorobenzene	<3.8	ug/L	20.0	3.8	4		04/23/20 10:22	120-82-1	
1,2,4-Trimethylbenzene	<3.4	ug/L	11.2	3.4	4		04/23/20 10:22	95-63-6	
1,2-Dibromo-3-chloropropane	<7.1	ug/L	23.5	7.1	4		04/23/20 10:22	96-12-8	
1,2-Dibromoethane (EDB)	<3.3	ug/L	11.1	3.3	4		04/23/20 10:22	106-93-4	
1,2-Dichlorobenzene	<2.8	ug/L	9.4	2.8	4		04/23/20 10:22	95-50-1	
1,2-Dichloroethane	<1.1	ug/L	4.0	1.1	4		04/23/20 10:22	107-06-2	
1,2-Dichloropropane	<1.1	ug/L	4.0	1.1	4		04/23/20 10:22	78-87-5	
1,3,5-Trimethylbenzene	<3.5	ug/L	11.6	3.5	4		04/23/20 10:22	108-67-8	
1,3-Dichlorobenzene	<2.5	ug/L	8.4	2.5	4		04/23/20 10:22	541-73-1	
1,3-Dichloropropane	<3.3	ug/L	11.0	3.3	4		04/23/20 10:22	142-28-9	
1,4-Dichlorobenzene	<3.8	ug/L	12.6	3.8	4		04/23/20 10:22	106-46-7	
2,2-Dichloropropane	<9.1	ug/L	30.2	9.1	4		04/23/20 10:22	594-20-7	
2-Chlorotoluene	<3.7	ug/L	20.0	3.7	4		04/23/20 10:22	95-49-8	
4-Chlorotoluene	<3.0	ug/L	10.1	3.0	4		04/23/20 10:22	106-43-4	
Benzene	<0.99	ug/L	4.0	0.99	4		04/23/20 10:22	71-43-2	
Bromobenzene	<0.96	ug/L	4.0	0.96	4		04/23/20 10:22	108-86-1	
Bromochloromethane	<1.4	ug/L	20.0	1.4	4		04/23/20 10:22	74-97-5	
Bromodichloromethane	<1.5	ug/L	4.8	1.5	4		04/23/20 10:22	75-27-4	
Bromoform	<15.9	ug/L	53.0	15.9	4		04/23/20 10:22	75-25-2	
Bromomethane	<3.9	ug/L	20.0	3.9	4		04/23/20 10:22	74-83-9	
Carbon tetrachloride	<4.3	ug/L	14.4	4.3	4		04/23/20 10:22	56-23-5	
Chlorobenzene	<2.8	ug/L	9.5	2.8	4		04/23/20 10:22	108-90-7	
Chloroethane	<5.4	ug/L	20.0	5.4	4		04/23/20 10:22	75-00-3	
Chloroform	<5.1	ug/L	20.0	5.1	4		04/23/20 10:22	67-66-3	
Chloromethane	<8.8	ug/L	29.2	8.8	4		04/23/20 10:22	74-87-3	
Dibromochloromethane	<10.4	ug/L	34.7	10.4	4		04/23/20 10:22	124-48-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40206463

Sample: OP-14 **Lab ID: 40206463006** Collected: 04/16/20 10:51 Received: 04/18/20 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Dibromomethane	<3.7	ug/L	12.5	3.7	4		04/23/20 10:22	74-95-3	
Dichlorodifluoromethane	<2.0	ug/L	20.0	2.0	4		04/23/20 10:22	75-71-8	
Diisopropyl ether	<7.6	ug/L	25.2	7.6	4		04/23/20 10:22	108-20-3	
Ethylbenzene	<1.3	ug/L	4.2	1.3	4		04/23/20 10:22	100-41-4	
Hexachloro-1,3-butadiene	<5.9	ug/L	19.5	5.9	4		04/23/20 10:22	87-68-3	
Isopropylbenzene (Cumene)	<6.7	ug/L	22.5	6.7	4		04/23/20 10:22	98-82-8	
Methyl-tert-butyl ether	<5.0	ug/L	16.6	5.0	4		04/23/20 10:22	1634-04-4	
Methylene Chloride	<2.3	ug/L	20.0	2.3	4		04/23/20 10:22	75-09-2	
Naphthalene	<4.7	ug/L	20.0	4.7	4		04/23/20 10:22	91-20-3	
Styrene	<12.0	ug/L	40.1	12.0	4		04/23/20 10:22	100-42-5	
Tetrachloroethene	4.4	ug/L	4.4	1.3	4		04/23/20 10:22	127-18-4	
Toluene	<1.1	ug/L	3.6	1.1	4		04/23/20 10:22	108-88-3	
Trichloroethene	243	ug/L	4.0	1.0	4		04/23/20 10:22	79-01-6	
Trichlorofluoromethane	<0.86	ug/L	4.0	0.86	4		04/23/20 10:22	75-69-4	
Vinyl chloride	<0.70	ug/L	4.0	0.70	4		04/23/20 10:22	75-01-4	
cis-1,2-Dichloroethene	221	ug/L	4.0	1.1	4		04/23/20 10:22	156-59-2	
cis-1,3-Dichloropropene	<14.5	ug/L	48.4	14.5	4		04/23/20 10:22	10061-01-5	
m&p-Xylene	<1.9	ug/L	8.0	1.9	4		04/23/20 10:22	179601-23-1	
n-Butylbenzene	<2.8	ug/L	9.4	2.8	4		04/23/20 10:22	104-51-8	
n-Propylbenzene	<3.2	ug/L	20.0	3.2	4		04/23/20 10:22	103-65-1	
o-Xylene	<1.0	ug/L	4.0	1.0	4		04/23/20 10:22	95-47-6	
p-Isopropyltoluene	<3.2	ug/L	10.7	3.2	4		04/23/20 10:22	99-87-6	
sec-Butylbenzene	<3.4	ug/L	20.0	3.4	4		04/23/20 10:22	135-98-8	
tert-Butylbenzene	<1.2	ug/L	4.1	1.2	4		04/23/20 10:22	98-06-6	
trans-1,2-Dichloroethene	<1.9	ug/L	6.2	1.9	4		04/23/20 10:22	156-60-5	
trans-1,3-Dichloropropene	<17.5	ug/L	58.3	17.5	4		04/23/20 10:22	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		4		04/23/20 10:22	460-00-4	
Dibromofluoromethane (S)	108	%	70-130		4		04/23/20 10:22	1868-53-7	
Toluene-d8 (S)	101	%	70-130		4		04/23/20 10:22	2037-26-5	
300.0 IC Anions									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Sulfate	75.2	mg/L	10.0	2.2	5		04/20/20 20:28	14808-79-8	
5310C TOC									
Analytical Method: SM 5310C									
Pace Analytical Services - Green Bay									
Total Organic Carbon	4.8	mg/L	0.50	0.15	1		04/20/20 05:40	7440-44-0	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40206463

Sample: MW-41 **Lab ID: 40206463007** Collected: 04/16/20 11:47 Received: 04/18/20 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV									
Analytical Method: EPA 8015B Modified Pace Analytical Services - Green Bay									
Ethane	<1.2	ug/L	5.6	1.2	1		04/21/20 11:31	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		04/21/20 11:31	74-85-1	
Methane	<0.66	ug/L	2.8	0.66	1		04/21/20 11:31	74-82-8	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010 Pace Analytical Services - Green Bay									
Iron, Dissolved	44.4J	ug/L	100	29.6	1		04/24/20 00:56	7439-89-6	
8260 MSV									
Analytical Method: EPA 8260 Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.54	ug/L	2.0	0.54	2		04/23/20 10:44	630-20-6	
1,1,1-Trichloroethane	1.7J	ug/L	2.0	0.49	2		04/23/20 10:44	71-55-6	
1,1,2,2-Tetrachloroethane	<0.55	ug/L	2.0	0.55	2		04/23/20 10:44	79-34-5	
1,1,2-Trichloroethane	<1.1	ug/L	10.0	1.1	2		04/23/20 10:44	79-00-5	
1,1-Dichloroethane	<0.55	ug/L	2.0	0.55	2		04/23/20 10:44	75-34-3	
1,1-Dichloroethene	1.7J	ug/L	2.0	0.49	2		04/23/20 10:44	75-35-4	
1,1-Dichloropropene	<1.1	ug/L	3.6	1.1	2		04/23/20 10:44	563-58-6	
1,2,3-Trichlorobenzene	<4.4	ug/L	14.7	4.4	2		04/23/20 10:44	87-61-6	
1,2,3-Trichloropropane	<1.2	ug/L	10.0	1.2	2		04/23/20 10:44	96-18-4	
1,2,4-Trichlorobenzene	<1.9	ug/L	10.0	1.9	2		04/23/20 10:44	120-82-1	
1,2,4-Trimethylbenzene	<1.7	ug/L	5.6	1.7	2		04/23/20 10:44	95-63-6	
1,2-Dibromo-3-chloropropane	<3.5	ug/L	11.8	3.5	2		04/23/20 10:44	96-12-8	
1,2-Dibromoethane (EDB)	<1.7	ug/L	5.5	1.7	2		04/23/20 10:44	106-93-4	
1,2-Dichlorobenzene	<1.4	ug/L	4.7	1.4	2		04/23/20 10:44	95-50-1	
1,2-Dichloroethane	<0.56	ug/L	2.0	0.56	2		04/23/20 10:44	107-06-2	
1,2-Dichloropropane	<0.57	ug/L	2.0	0.57	2		04/23/20 10:44	78-87-5	
1,3,5-Trimethylbenzene	<1.7	ug/L	5.8	1.7	2		04/23/20 10:44	108-67-8	
1,3-Dichlorobenzene	<1.3	ug/L	4.2	1.3	2		04/23/20 10:44	541-73-1	
1,3-Dichloropropane	<1.7	ug/L	5.5	1.7	2		04/23/20 10:44	142-28-9	
1,4-Dichlorobenzene	<1.9	ug/L	6.3	1.9	2		04/23/20 10:44	106-46-7	
2,2-Dichloropropane	<4.5	ug/L	15.1	4.5	2		04/23/20 10:44	594-20-7	
2-Chlorotoluene	<1.9	ug/L	10.0	1.9	2		04/23/20 10:44	95-49-8	
4-Chlorotoluene	<1.5	ug/L	5.0	1.5	2		04/23/20 10:44	106-43-4	
Benzene	<0.49	ug/L	2.0	0.49	2		04/23/20 10:44	71-43-2	
Bromobenzene	<0.48	ug/L	2.0	0.48	2		04/23/20 10:44	108-86-1	
Bromochloromethane	<0.72	ug/L	10.0	0.72	2		04/23/20 10:44	74-97-5	
Bromodichloromethane	<0.73	ug/L	2.4	0.73	2		04/23/20 10:44	75-27-4	
Bromoform	<7.9	ug/L	26.5	7.9	2		04/23/20 10:44	75-25-2	
Bromomethane	<1.9	ug/L	10.0	1.9	2		04/23/20 10:44	74-83-9	
Carbon tetrachloride	<2.2	ug/L	7.2	2.2	2		04/23/20 10:44	56-23-5	
Chlorobenzene	<1.4	ug/L	4.7	1.4	2		04/23/20 10:44	108-90-7	
Chloroethane	<2.7	ug/L	10.0	2.7	2		04/23/20 10:44	75-00-3	
Chloroform	<2.5	ug/L	10.0	2.5	2		04/23/20 10:44	67-66-3	
Chloromethane	<4.4	ug/L	14.6	4.4	2		04/23/20 10:44	74-87-3	
Dibromochloromethane	<5.2	ug/L	17.3	5.2	2		04/23/20 10:44	124-48-1	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40206463

Sample: MW-41 **Lab ID: 40206463007** Collected: 04/16/20 11:47 Received: 04/18/20 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Dibromomethane	<1.9	ug/L	6.2	1.9	2		04/23/20 10:44	74-95-3	
Dichlorodifluoromethane	<1.0	ug/L	10.0	1.0	2		04/23/20 10:44	75-71-8	
Diisopropyl ether	<3.8	ug/L	12.6	3.8	2		04/23/20 10:44	108-20-3	
Ethylbenzene	<0.64	ug/L	2.1	0.64	2		04/23/20 10:44	100-41-4	
Hexachloro-1,3-butadiene	<2.9	ug/L	9.8	2.9	2		04/23/20 10:44	87-68-3	
Isopropylbenzene (Cumene)	<3.4	ug/L	11.2	3.4	2		04/23/20 10:44	98-82-8	
Methyl-tert-butyl ether	<2.5	ug/L	8.3	2.5	2		04/23/20 10:44	1634-04-4	
Methylene Chloride	<1.2	ug/L	10.0	1.2	2		04/23/20 10:44	75-09-2	
Naphthalene	<2.4	ug/L	10.0	2.4	2		04/23/20 10:44	91-20-3	
Styrene	<6.0	ug/L	20.1	6.0	2		04/23/20 10:44	100-42-5	
Tetrachloroethene	1.1J	ug/L	2.2	0.65	2		04/23/20 10:44	127-18-4	
Toluene	<0.54	ug/L	1.8	0.54	2		04/23/20 10:44	108-88-3	
Trichloroethene	157	ug/L	2.0	0.51	2		04/23/20 10:44	79-01-6	
Trichlorofluoromethane	<0.43	ug/L	2.0	0.43	2		04/23/20 10:44	75-69-4	
Vinyl chloride	<0.35	ug/L	2.0	0.35	2		04/23/20 10:44	75-01-4	
cis-1,2-Dichloroethene	332	ug/L	2.0	0.54	2		04/23/20 10:44	156-59-2	
cis-1,3-Dichloropropene	<7.3	ug/L	24.2	7.3	2		04/23/20 10:44	10061-01-5	
m&p-Xylene	<0.93	ug/L	4.0	0.93	2		04/23/20 10:44	179601-23-1	
n-Butylbenzene	<1.4	ug/L	4.7	1.4	2		04/23/20 10:44	104-51-8	
n-Propylbenzene	<1.6	ug/L	10.0	1.6	2		04/23/20 10:44	103-65-1	
o-Xylene	<0.52	ug/L	2.0	0.52	2		04/23/20 10:44	95-47-6	
p-Isopropyltoluene	<1.6	ug/L	5.3	1.6	2		04/23/20 10:44	99-87-6	
sec-Butylbenzene	<1.7	ug/L	10.0	1.7	2		04/23/20 10:44	135-98-8	
tert-Butylbenzene	<0.61	ug/L	2.0	0.61	2		04/23/20 10:44	98-06-6	
trans-1,2-Dichloroethene	<0.93	ug/L	3.1	0.93	2		04/23/20 10:44	156-60-5	
trans-1,3-Dichloropropene	<8.7	ug/L	29.1	8.7	2		04/23/20 10:44	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		2		04/23/20 10:44	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		2		04/23/20 10:44	1868-53-7	
Toluene-d8 (S)	102	%	70-130		2		04/23/20 10:44	2037-26-5	
300.0 IC Anions									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Sulfate	33.5	mg/L	10.0	2.2	5		04/20/20 20:43	14808-79-8	
5310C TOC									
Analytical Method: SM 5310C									
Pace Analytical Services - Green Bay									
Total Organic Carbon	3.2	mg/L	1.0	0.30	2		04/20/20 06:01	7440-44-0	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40206463

Sample: MW-42 **Lab ID: 40206463008** Collected: 04/16/20 12:18 Received: 04/18/20 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV									
Analytical Method: EPA 8015B Modified									
Pace Analytical Services - Green Bay									
Ethane	<1.2	ug/L	5.6	1.2	1		04/21/20 11:38	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		04/21/20 11:38	74-85-1	
Methane	196	ug/L	2.8	0.66	1		04/21/20 11:38	74-82-8	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010									
Pace Analytical Services - Green Bay									
Iron, Dissolved	35600	ug/L	100	29.6	1		04/24/20 00:58	7439-89-6	
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<1.3	ug/L	5.0	1.3	5		04/23/20 08:29	630-20-6	
1,1,1-Trichloroethane	1.8J	ug/L	5.0	1.2	5		04/23/20 08:29	71-55-6	
1,1,2,2-Tetrachloroethane	<1.4	ug/L	5.0	1.4	5		04/23/20 08:29	79-34-5	
1,1,2-Trichloroethane	<2.8	ug/L	25.0	2.8	5		04/23/20 08:29	79-00-5	
1,1-Dichloroethane	6.0	ug/L	5.0	1.4	5		04/23/20 08:29	75-34-3	
1,1-Dichloroethene	2.4J	ug/L	5.0	1.2	5		04/23/20 08:29	75-35-4	
1,1-Dichloropropene	<2.7	ug/L	9.0	2.7	5		04/23/20 08:29	563-58-6	
1,2,3-Trichlorobenzene	<11.1	ug/L	36.8	11.1	5		04/23/20 08:29	87-61-6	
1,2,3-Trichloropropane	<3.0	ug/L	25.0	3.0	5		04/23/20 08:29	96-18-4	
1,2,4-Trichlorobenzene	<4.8	ug/L	25.0	4.8	5		04/23/20 08:29	120-82-1	
1,2,4-Trimethylbenzene	<4.2	ug/L	14.0	4.2	5		04/23/20 08:29	95-63-6	
1,2-Dibromo-3-chloropropane	<8.8	ug/L	29.4	8.8	5		04/23/20 08:29	96-12-8	
1,2-Dibromoethane (EDB)	<4.1	ug/L	13.8	4.1	5		04/23/20 08:29	106-93-4	
1,2-Dichlorobenzene	<3.5	ug/L	11.8	3.5	5		04/23/20 08:29	95-50-1	
1,2-Dichloroethane	<1.4	ug/L	5.0	1.4	5		04/23/20 08:29	107-06-2	
1,2-Dichloropropane	<1.4	ug/L	5.0	1.4	5		04/23/20 08:29	78-87-5	
1,3,5-Trimethylbenzene	<4.4	ug/L	14.6	4.4	5		04/23/20 08:29	108-67-8	
1,3-Dichlorobenzene	<3.1	ug/L	10.5	3.1	5		04/23/20 08:29	541-73-1	
1,3-Dichloropropane	<4.1	ug/L	13.8	4.1	5		04/23/20 08:29	142-28-9	
1,4-Dichlorobenzene	<4.7	ug/L	15.7	4.7	5		04/23/20 08:29	106-46-7	
2,2-Dichloropropane	<11.3	ug/L	37.8	11.3	5		04/23/20 08:29	594-20-7	
2-Chlorotoluene	<4.6	ug/L	25.0	4.6	5		04/23/20 08:29	95-49-8	
4-Chlorotoluene	<3.8	ug/L	12.6	3.8	5		04/23/20 08:29	106-43-4	
Benzene	<1.2	ug/L	5.0	1.2	5		04/23/20 08:29	71-43-2	
Bromobenzene	<1.2	ug/L	5.0	1.2	5		04/23/20 08:29	108-86-1	
Bromochloromethane	<1.8	ug/L	25.0	1.8	5		04/23/20 08:29	74-97-5	
Bromodichloromethane	<1.8	ug/L	6.1	1.8	5		04/23/20 08:29	75-27-4	
Bromoform	<19.9	ug/L	66.2	19.9	5		04/23/20 08:29	75-25-2	
Bromomethane	<4.9	ug/L	25.0	4.9	5		04/23/20 08:29	74-83-9	
Carbon tetrachloride	<5.4	ug/L	17.9	5.4	5		04/23/20 08:29	56-23-5	
Chlorobenzene	<3.6	ug/L	11.8	3.6	5		04/23/20 08:29	108-90-7	
Chloroethane	<6.7	ug/L	25.0	6.7	5		04/23/20 08:29	75-00-3	
Chloroform	<6.4	ug/L	25.0	6.4	5		04/23/20 08:29	67-66-3	
Chloromethane	<10.9	ug/L	36.5	10.9	5		04/23/20 08:29	74-87-3	
Dibromochloromethane	<13.0	ug/L	43.4	13.0	5		04/23/20 08:29	124-48-1	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40206463

Sample: MW-42 **Lab ID: 40206463008** Collected: 04/16/20 12:18 Received: 04/18/20 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Dibromomethane	<4.7	ug/L	15.6	4.7	5		04/23/20 08:29	74-95-3	
Dichlorodifluoromethane	<2.5	ug/L	25.0	2.5	5		04/23/20 08:29	75-71-8	
Diisopropyl ether	<9.4	ug/L	31.5	9.4	5		04/23/20 08:29	108-20-3	
Ethylbenzene	<1.6	ug/L	5.3	1.6	5		04/23/20 08:29	100-41-4	
Hexachloro-1,3-butadiene	<7.3	ug/L	24.4	7.3	5		04/23/20 08:29	87-68-3	
Isopropylbenzene (Cumene)	<8.4	ug/L	28.1	8.4	5		04/23/20 08:29	98-82-8	
Methyl-tert-butyl ether	<6.2	ug/L	20.8	6.2	5		04/23/20 08:29	1634-04-4	
Methylene Chloride	<2.9	ug/L	25.0	2.9	5		04/23/20 08:29	75-09-2	
Naphthalene	<5.9	ug/L	25.0	5.9	5		04/23/20 08:29	91-20-3	
Styrene	<15.0	ug/L	50.2	15.0	5		04/23/20 08:29	100-42-5	
Tetrachloroethene	<1.6	ug/L	5.4	1.6	5		04/23/20 08:29	127-18-4	
Toluene	<1.3	ug/L	4.5	1.3	5		04/23/20 08:29	108-88-3	
Trichloroethene	567	ug/L	5.0	1.3	5		04/23/20 08:29	79-01-6	
Trichlorofluoromethane	<1.1	ug/L	5.0	1.1	5		04/23/20 08:29	75-69-4	
Vinyl chloride	1.7J	ug/L	5.0	0.87	5		04/23/20 08:29	75-01-4	
cis-1,2-Dichloroethene	441	ug/L	5.0	1.4	5		04/23/20 08:29	156-59-2	
cis-1,3-Dichloropropene	<18.1	ug/L	60.5	18.1	5		04/23/20 08:29	10061-01-5	
m&p-Xylene	<2.3	ug/L	10.0	2.3	5		04/23/20 08:29	179601-23-1	
n-Butylbenzene	<3.5	ug/L	11.8	3.5	5		04/23/20 08:29	104-51-8	
n-Propylbenzene	<4.1	ug/L	25.0	4.1	5		04/23/20 08:29	103-65-1	
o-Xylene	<1.3	ug/L	5.0	1.3	5		04/23/20 08:29	95-47-6	
p-Isopropyltoluene	<4.0	ug/L	13.3	4.0	5		04/23/20 08:29	99-87-6	
sec-Butylbenzene	<4.2	ug/L	25.0	4.2	5		04/23/20 08:29	135-98-8	
tert-Butylbenzene	<1.5	ug/L	5.1	1.5	5		04/23/20 08:29	98-06-6	
trans-1,2-Dichloroethene	<2.3	ug/L	7.7	2.3	5		04/23/20 08:29	156-60-5	
trans-1,3-Dichloropropene	<21.9	ug/L	72.8	21.9	5		04/23/20 08:29	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	96	%	70-130		5		04/23/20 08:29	460-00-4	
Dibromofluoromethane (S)	107	%	70-130		5		04/23/20 08:29	1868-53-7	
Toluene-d8 (S)	100	%	70-130		5		04/23/20 08:29	2037-26-5	
300.0 IC Anions									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Sulfate	5.3J	mg/L	10.0	2.2	5		04/20/20 20:57	14808-79-8	D3
5310C TOC									
Analytical Method: SM 5310C									
Pace Analytical Services - Green Bay									
Total Organic Carbon	113	mg/L	30.0	8.9	60		04/20/20 06:21	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40206463

Sample: TRIP **Lab ID: 40206463009** Collected: 04/16/20 00:00 Received: 04/18/20 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		04/22/20 12:27	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		04/22/20 12:27	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		04/22/20 12:27	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		04/22/20 12:27	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		04/22/20 12:27	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		04/22/20 12:27	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		04/22/20 12:27	563-58-6	
1,2,3-Trichlorobenzene	<2.2	ug/L	7.4	2.2	1		04/22/20 12:27	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		04/22/20 12:27	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		04/22/20 12:27	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		04/22/20 12:27	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		04/22/20 12:27	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		04/22/20 12:27	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		04/22/20 12:27	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		04/22/20 12:27	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		04/22/20 12:27	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		04/22/20 12:27	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		04/22/20 12:27	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		04/22/20 12:27	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		04/22/20 12:27	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		04/22/20 12:27	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		04/22/20 12:27	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		04/22/20 12:27	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		04/22/20 12:27	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		04/22/20 12:27	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		04/22/20 12:27	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		04/22/20 12:27	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		04/22/20 12:27	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		04/22/20 12:27	74-83-9	
Carbon tetrachloride	<1.1	ug/L	3.6	1.1	1		04/22/20 12:27	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		04/22/20 12:27	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		04/22/20 12:27	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		04/22/20 12:27	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		04/22/20 12:27	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		04/22/20 12:27	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		04/22/20 12:27	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		04/22/20 12:27	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		04/22/20 12:27	108-20-3	
Ethylbenzene	<0.32	ug/L	1.1	0.32	1		04/22/20 12:27	100-41-4	
Hexachloro-1,3-butadiene	<1.5	ug/L	4.9	1.5	1		04/22/20 12:27	87-68-3	
Isopropylbenzene (Cumene)	<1.7	ug/L	5.6	1.7	1		04/22/20 12:27	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		04/22/20 12:27	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		04/22/20 12:27	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		04/22/20 12:27	91-20-3	
Styrene	<3.0	ug/L	10.0	3.0	1		04/22/20 12:27	100-42-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40206463

Sample: TRIP **Lab ID: 40206463009** Collected: 04/16/20 00:00 Received: 04/18/20 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		04/22/20 12:27	127-18-4	
Toluene	<0.27	ug/L	0.90	0.27	1		04/22/20 12:27	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		04/22/20 12:27	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		04/22/20 12:27	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		04/22/20 12:27	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		04/22/20 12:27	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		04/22/20 12:27	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		04/22/20 12:27	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		04/22/20 12:27	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		04/22/20 12:27	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		04/22/20 12:27	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		04/22/20 12:27	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		04/22/20 12:27	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		04/22/20 12:27	98-06-6	
trans-1,2-Dichloroethene	<0.46	ug/L	1.5	0.46	1		04/22/20 12:27	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		04/22/20 12:27	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		1		04/22/20 12:27	460-00-4	HS
Dibromofluoromethane (S)	108	%	70-130		1		04/22/20 12:27	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		04/22/20 12:27	2037-26-5	

Sample: MW-4 **Lab ID: 40206463010** Collected: 04/16/20 11:19 Received: 04/18/20 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
Methane, Ethane, Ethene GCV									
Analytical Method: EPA 8015B Modified									
Pace Analytical Services - Green Bay									
Ethane	<1.2	ug/L	5.6	1.2	1		04/21/20 11:45	74-84-0	
Ethene	<1.2	ug/L	5.0	1.2	1		04/21/20 11:45	74-85-1	
Methane	<0.66	ug/L	2.8	0.66	1		04/21/20 11:45	74-82-8	
6010 MET ICP, Dissolved									
Analytical Method: EPA 6010									
Pace Analytical Services - Green Bay									
Iron, Dissolved	<29.6	ug/L	100	29.6	1		04/24/20 01:00	7439-89-6	
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1,1,2-Tetrachloroethane	<0.67	ug/L	2.5	0.67	2.5		04/22/20 15:49	630-20-6	
1,1,1-Trichloroethane	2.8	ug/L	2.5	0.61	2.5		04/22/20 15:49	71-55-6	
1,1,2,2-Tetrachloroethane	<0.69	ug/L	2.5	0.69	2.5		04/22/20 15:49	79-34-5	
1,1,2-Trichloroethane	<1.4	ug/L	12.5	1.4	2.5		04/22/20 15:49	79-00-5	
1,1-Dichloroethane	1.1J	ug/L	2.5	0.68	2.5		04/22/20 15:49	75-34-3	
1,1-Dichloroethene	1.0J	ug/L	2.5	0.61	2.5		04/22/20 15:49	75-35-4	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40206463

Sample: MW-4 Lab ID: 40206463010 Collected: 04/16/20 11:19 Received: 04/18/20 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
1,1-Dichloropropene	<1.4	ug/L	4.5	1.4	2.5		04/22/20 15:49	563-58-6	
1,2,3-Trichlorobenzene	<5.5	ug/L	18.4	5.5	2.5		04/22/20 15:49	87-61-6	
1,2,3-Trichloropropane	<1.5	ug/L	12.5	1.5	2.5		04/22/20 15:49	96-18-4	
1,2,4-Trichlorobenzene	<2.4	ug/L	12.5	2.4	2.5		04/22/20 15:49	120-82-1	
1,2,4-Trimethylbenzene	<2.1	ug/L	7.0	2.1	2.5		04/22/20 15:49	95-63-6	
1,2-Dibromo-3-chloropropane	<4.4	ug/L	14.7	4.4	2.5		04/22/20 15:49	96-12-8	
1,2-Dibromoethane (EDB)	<2.1	ug/L	6.9	2.1	2.5		04/22/20 15:49	106-93-4	
1,2-Dichlorobenzene	<1.8	ug/L	5.9	1.8	2.5		04/22/20 15:49	95-50-1	
1,2-Dichloroethane	<0.70	ug/L	2.5	0.70	2.5		04/22/20 15:49	107-06-2	
1,2-Dichloropropane	<0.71	ug/L	2.5	0.71	2.5		04/22/20 15:49	78-87-5	
1,3,5-Trimethylbenzene	<2.2	ug/L	7.3	2.2	2.5		04/22/20 15:49	108-67-8	
1,3-Dichlorobenzene	<1.6	ug/L	5.2	1.6	2.5		04/22/20 15:49	541-73-1	
1,3-Dichloropropane	<2.1	ug/L	6.9	2.1	2.5		04/22/20 15:49	142-28-9	
1,4-Dichlorobenzene	<2.4	ug/L	7.9	2.4	2.5		04/22/20 15:49	106-46-7	
2,2-Dichloropropane	<5.7	ug/L	18.9	5.7	2.5		04/22/20 15:49	594-20-7	
2-Chlorotoluene	<2.3	ug/L	12.5	2.3	2.5		04/22/20 15:49	95-49-8	
4-Chlorotoluene	<1.9	ug/L	6.3	1.9	2.5		04/22/20 15:49	106-43-4	
Benzene	<0.62	ug/L	2.5	0.62	2.5		04/22/20 15:49	71-43-2	
Bromobenzene	<0.60	ug/L	2.5	0.60	2.5		04/22/20 15:49	108-86-1	
Bromochloromethane	<0.91	ug/L	12.5	0.91	2.5		04/22/20 15:49	74-97-5	
Bromodichloromethane	<0.91	ug/L	3.0	0.91	2.5		04/22/20 15:49	75-27-4	
Bromoform	<9.9	ug/L	33.1	9.9	2.5		04/22/20 15:49	75-25-2	
Bromomethane	<2.4	ug/L	12.5	2.4	2.5		04/22/20 15:49	74-83-9	
Carbon tetrachloride	<2.7	ug/L	9.0	2.7	2.5		04/22/20 15:49	56-23-5	
Chlorobenzene	<1.8	ug/L	5.9	1.8	2.5		04/22/20 15:49	108-90-7	
Chloroethane	<3.4	ug/L	12.5	3.4	2.5		04/22/20 15:49	75-00-3	
Chloroform	<3.2	ug/L	12.5	3.2	2.5		04/22/20 15:49	67-66-3	
Chloromethane	<5.5	ug/L	18.2	5.5	2.5		04/22/20 15:49	74-87-3	
Dibromochloromethane	<6.5	ug/L	21.7	6.5	2.5		04/22/20 15:49	124-48-1	
Dibromomethane	<2.3	ug/L	7.8	2.3	2.5		04/22/20 15:49	74-95-3	
Dichlorodifluoromethane	<1.2	ug/L	12.5	1.2	2.5		04/22/20 15:49	75-71-8	
Diisopropyl ether	<4.7	ug/L	15.7	4.7	2.5		04/22/20 15:49	108-20-3	
Ethylbenzene	<0.80	ug/L	2.7	0.80	2.5		04/22/20 15:49	100-41-4	
Hexachloro-1,3-butadiene	<3.7	ug/L	12.2	3.7	2.5		04/22/20 15:49	87-68-3	
Isopropylbenzene (Cumene)	<4.2	ug/L	14.0	4.2	2.5		04/22/20 15:49	98-82-8	
Methyl-tert-butyl ether	<3.1	ug/L	10.4	3.1	2.5		04/22/20 15:49	1634-04-4	
Methylene Chloride	<1.5	ug/L	12.5	1.5	2.5		04/22/20 15:49	75-09-2	
Naphthalene	<2.9	ug/L	12.5	2.9	2.5		04/22/20 15:49	91-20-3	
Styrene	<7.5	ug/L	25.1	7.5	2.5		04/22/20 15:49	100-42-5	
Tetrachloroethene	2.7J	ug/L	2.7	0.82	2.5		04/22/20 15:49	127-18-4	
Toluene	<0.67	ug/L	2.2	0.67	2.5		04/22/20 15:49	108-88-3	
Trichloroethene	161	ug/L	2.5	0.64	2.5		04/22/20 15:49	79-01-6	
Trichlorofluoromethane	<0.54	ug/L	2.5	0.54	2.5		04/22/20 15:49	75-69-4	
Vinyl chloride	<0.44	ug/L	2.5	0.44	2.5		04/22/20 15:49	75-01-4	
cis-1,2-Dichloroethene	178	ug/L	2.5	0.68	2.5		04/22/20 15:49	156-59-2	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40206463

Sample: MW-4 **Lab ID: 40206463010** Collected: 04/16/20 11:19 Received: 04/18/20 08:00 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV									
Analytical Method: EPA 8260									
Pace Analytical Services - Green Bay									
cis-1,3-Dichloropropene	<9.1	ug/L	30.2	9.1	2.5		04/22/20 15:49	10061-01-5	
m&p-Xylene	<1.2	ug/L	5.0	1.2	2.5		04/22/20 15:49	179601-23-1	
n-Butylbenzene	<1.8	ug/L	5.9	1.8	2.5		04/22/20 15:49	104-51-8	
n-Propylbenzene	<2.0	ug/L	12.5	2.0	2.5		04/22/20 15:49	103-65-1	
o-Xylene	<0.65	ug/L	2.5	0.65	2.5		04/22/20 15:49	95-47-6	
p-Isopropyltoluene	<2.0	ug/L	6.7	2.0	2.5		04/22/20 15:49	99-87-6	
sec-Butylbenzene	<2.1	ug/L	12.5	2.1	2.5		04/22/20 15:49	135-98-8	
tert-Butylbenzene	<0.76	ug/L	2.5	0.76	2.5		04/22/20 15:49	98-06-6	
trans-1,2-Dichloroethene	<1.2	ug/L	3.9	1.2	2.5		04/22/20 15:49	156-60-5	
trans-1,3-Dichloropropene	<10.9	ug/L	36.4	10.9	2.5		04/22/20 15:49	10061-02-6	
Surrogates									
4-Bromofluorobenzene (S)	97	%	70-130		2.5		04/22/20 15:49	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		2.5		04/22/20 15:49	1868-53-7	
Toluene-d8 (S)	102	%	70-130		2.5		04/22/20 15:49	2037-26-5	
300.0 IC Anions									
Analytical Method: EPA 300.0									
Pace Analytical Services - Green Bay									
Sulfate	31.8	mg/L	10.0	2.2	5		04/20/20 21:11	14808-79-8	
5310C TOC									
Analytical Method: SM 5310C									
Pace Analytical Services - Green Bay									
Total Organic Carbon	2.7	mg/L	0.50	0.15	1		04/20/20 07:03	7440-44-0	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40206463

QC Batch:	353014	Analysis Method:	EPA 8015B Modified
QC Batch Method:	EPA 8015B Modified	Analysis Description:	Methane, Ethane, Ethene GCV
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40206463001, 40206463002, 40206463003, 40206463004, 40206463005, 40206463006, 40206463007, 40206463008, 40206463010

METHOD BLANK: 2043676 Matrix: Water
Associated Lab Samples: 40206463001, 40206463002, 40206463003, 40206463004, 40206463005, 40206463006, 40206463007, 40206463008, 40206463010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	<1.2	5.6	04/21/20 08:41	
Ethene	ug/L	<1.2	5.0	04/21/20 08:41	
Methane	ug/L	<0.66	2.8	04/21/20 08:41	

LABORATORY CONTROL SAMPLE & LCSD: 2043677 2043678

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	53.6	55.9	55.4	104	103	80-120	1	20	
Ethene	ug/L	50	51.6	51.3	103	103	80-120	1	20	
Methane	ug/L	28.6	28.6	28.4	100	100	79-120	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2043910 2043911

Parameter	Units	40206092003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Ethane	ug/L	<1.2	53.6	53.6	54.7	55.8	102	104	79-120	2	20	
Ethene	ug/L	<1.2	50	50	50.8	51.5	102	103	79-120	1	20	
Methane	ug/L	51.4	28.6	28.6	80.3	77.0	101	90	10-200	4	20	

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40206463

QC Batch:	353306	Analysis Method:	EPA 6010
QC Batch Method:	EPA 6010	Analysis Description:	ICP Metals, Trace, Dissolved
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40206463001, 40206463002, 40206463003, 40206463004, 40206463005, 40206463006, 40206463007, 40206463008, 40206463010

METHOD BLANK: 2045401 Matrix: Water
Associated Lab Samples: 40206463001, 40206463002, 40206463003, 40206463004, 40206463005, 40206463006, 40206463007, 40206463008, 40206463010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Dissolved	ug/L	<29.6	100	04/24/20 00:26	

LABORATORY CONTROL SAMPLE: 2045402

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	ug/L	5000	5090	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2045403 2045404

Parameter	Units	40206463001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Iron, Dissolved	ug/L	4020	5000	5000	8780	8910	95	98	75-125	1	20	

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40206463

QC Batch: 352947 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40206463008, 40206463009, 40206463010

METHOD BLANK: 2043392 Matrix: Water
Associated Lab Samples: 40206463008, 40206463009, 40206463010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	04/22/20 06:51	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	04/22/20 06:51	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	04/22/20 06:51	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	04/22/20 06:51	
1,1-Dichloroethane	ug/L	<0.27	1.0	04/22/20 06:51	
1,1-Dichloroethene	ug/L	<0.24	1.0	04/22/20 06:51	
1,1-Dichloropropene	ug/L	<0.54	1.8	04/22/20 06:51	
1,2,3-Trichlorobenzene	ug/L	<2.2	7.4	04/22/20 06:51	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	04/22/20 06:51	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	04/22/20 06:51	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	04/22/20 06:51	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	04/22/20 06:51	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	04/22/20 06:51	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	04/22/20 06:51	
1,2-Dichloroethane	ug/L	<0.28	1.0	04/22/20 06:51	
1,2-Dichloropropane	ug/L	<0.28	1.0	04/22/20 06:51	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	04/22/20 06:51	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	04/22/20 06:51	
1,3-Dichloropropane	ug/L	<0.83	2.8	04/22/20 06:51	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	04/22/20 06:51	
2,2-Dichloropropane	ug/L	<2.3	7.6	04/22/20 06:51	
2-Chlorotoluene	ug/L	<0.93	5.0	04/22/20 06:51	
4-Chlorotoluene	ug/L	<0.76	2.5	04/22/20 06:51	
Benzene	ug/L	<0.25	1.0	04/22/20 06:51	
Bromobenzene	ug/L	<0.24	1.0	04/22/20 06:51	
Bromochloromethane	ug/L	<0.36	5.0	04/22/20 06:51	
Bromodichloromethane	ug/L	<0.36	1.2	04/22/20 06:51	
Bromoform	ug/L	<4.0	13.2	04/22/20 06:51	
Bromomethane	ug/L	<0.97	5.0	04/22/20 06:51	
Carbon tetrachloride	ug/L	<1.1	3.6	04/22/20 06:51	
Chlorobenzene	ug/L	<0.71	2.4	04/22/20 06:51	
Chloroethane	ug/L	<1.3	5.0	04/22/20 06:51	
Chloroform	ug/L	<1.3	5.0	04/22/20 06:51	
Chloromethane	ug/L	<2.2	7.3	04/22/20 06:51	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	04/22/20 06:51	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	04/22/20 06:51	
Dibromochloromethane	ug/L	<2.6	8.7	04/22/20 06:51	
Dibromomethane	ug/L	<0.94	3.1	04/22/20 06:51	
Dichlorodifluoromethane	ug/L	<0.50	5.0	04/22/20 06:51	
Diisopropyl ether	ug/L	<1.9	6.3	04/22/20 06:51	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40206463

METHOD BLANK: 2043392 Matrix: Water
Associated Lab Samples: 40206463008, 40206463009, 40206463010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	<0.32	1.1	04/22/20 06:51	
Hexachloro-1,3-butadiene	ug/L	<1.5	4.9	04/22/20 06:51	
Isopropylbenzene (Cumene)	ug/L	<1.7	5.6	04/22/20 06:51	
m&p-Xylene	ug/L	<0.47	2.0	04/22/20 06:51	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	04/22/20 06:51	
Methylene Chloride	ug/L	<0.58	5.0	04/22/20 06:51	
n-Butylbenzene	ug/L	<0.71	2.4	04/22/20 06:51	
n-Propylbenzene	ug/L	<0.81	5.0	04/22/20 06:51	
Naphthalene	ug/L	<1.2	5.0	04/22/20 06:51	
o-Xylene	ug/L	<0.26	1.0	04/22/20 06:51	
p-Isopropyltoluene	ug/L	<0.80	2.7	04/22/20 06:51	
sec-Butylbenzene	ug/L	<0.85	5.0	04/22/20 06:51	
Styrene	ug/L	<3.0	10.0	04/22/20 06:51	
tert-Butylbenzene	ug/L	<0.30	1.0	04/22/20 06:51	
Tetrachloroethene	ug/L	<0.33	1.1	04/22/20 06:51	
Toluene	ug/L	<0.27	0.90	04/22/20 06:51	
trans-1,2-Dichloroethene	ug/L	<0.46	1.5	04/22/20 06:51	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	04/22/20 06:51	
Trichloroethene	ug/L	<0.26	1.0	04/22/20 06:51	
Trichlorofluoromethane	ug/L	<0.21	1.0	04/22/20 06:51	
Vinyl chloride	ug/L	<0.17	1.0	04/22/20 06:51	
4-Bromofluorobenzene (S)	%	96	70-130	04/22/20 06:51	
Dibromofluoromethane (S)	%	105	70-130	04/22/20 06:51	
Toluene-d8 (S)	%	101	70-130	04/22/20 06:51	

LABORATORY CONTROL SAMPLE: 2043393

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	47.8	96	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	54.8	110	64-131	
1,1,2-Trichloroethane	ug/L	50	53.3	107	70-130	
1,1-Dichloroethane	ug/L	50	54.0	108	69-163	
1,1-Dichloroethene	ug/L	50	43.6	87	77-123	
1,2,4-Trichlorobenzene	ug/L	50	42.5	85	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	42.9	86	63-130	
1,2-Dibromoethane (EDB)	ug/L	50	50.2	100	70-130	
1,2-Dichlorobenzene	ug/L	50	49.3	99	70-130	
1,2-Dichloroethane	ug/L	50	58.3	117	78-142	
1,2-Dichloropropane	ug/L	50	56.3	113	86-134	
1,3-Dichlorobenzene	ug/L	50	48.7	97	70-130	
1,4-Dichlorobenzene	ug/L	50	49.4	99	70-130	
Benzene	ug/L	50	50.5	101	70-130	
Bromodichloromethane	ug/L	50	52.7	105	70-130	
Bromoform	ug/L	50	45.1	90	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40206463

LABORATORY CONTROL SAMPLE: 2043393

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/L	50	27.6	55	39-129	
Carbon tetrachloride	ug/L	50	50.3	101	70-132	
Chlorobenzene	ug/L	50	50.9	102	70-130	
Chloroethane	ug/L	50	44.7	89	66-140	
Chloroform	ug/L	50	52.0	104	75-132	
Chloromethane	ug/L	50	38.3	77	32-143	
cis-1,2-Dichloroethene	ug/L	50	48.9	98	70-130	
cis-1,3-Dichloropropene	ug/L	50	44.8	90	70-130	
Dibromochloromethane	ug/L	50	53.5	107	70-130	
Dichlorodifluoromethane	ug/L	50	33.2	66	10-141	
Ethylbenzene	ug/L	50	49.6	99	80-120	
Isopropylbenzene (Cumene)	ug/L	50	47.4	95	70-130	
m&p-Xylene	ug/L	100	98.7	99	70-130	
Methyl-tert-butyl ether	ug/L	50	44.4	89	61-129	
Methylene Chloride	ug/L	50	44.6	89	70-130	
o-Xylene	ug/L	50	48.0	96	70-130	
Styrene	ug/L	50	50.5	101	70-130	
Tetrachloroethene	ug/L	50	48.2	96	70-130	
Toluene	ug/L	50	49.8	100	80-120	
trans-1,2-Dichloroethene	ug/L	50	45.5	91	70-130	
trans-1,3-Dichloropropene	ug/L	50	42.0	84	69-130	
Trichloroethene	ug/L	50	52.5	105	70-130	
Trichlorofluoromethane	ug/L	50	53.7	107	75-145	
Vinyl chloride	ug/L	50	37.9	76	51-140	
4-Bromofluorobenzene (S)	%			99	70-130	
Dibromofluoromethane (S)	%			108	70-130	
Toluene-d8 (S)	%			99	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40206463

QC Batch: 353031 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV
Laboratory: Pace Analytical Services - Green Bay
Associated Lab Samples: 40206463001, 40206463002, 40206463003, 40206463004, 40206463005, 40206463006, 40206463007

METHOD BLANK: 2043747 Matrix: Water
Associated Lab Samples: 40206463001, 40206463002, 40206463003, 40206463004, 40206463005, 40206463006, 40206463007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	04/22/20 17:07	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	04/22/20 17:07	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	04/22/20 17:07	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	04/22/20 17:07	
1,1-Dichloroethane	ug/L	<0.27	1.0	04/22/20 17:07	
1,1-Dichloroethene	ug/L	<0.24	1.0	04/22/20 17:07	
1,1-Dichloropropene	ug/L	<0.54	1.8	04/22/20 17:07	
1,2,3-Trichlorobenzene	ug/L	<2.2	7.4	04/22/20 17:07	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	04/22/20 17:07	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	04/22/20 17:07	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	04/22/20 17:07	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	04/22/20 17:07	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	04/22/20 17:07	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	04/22/20 17:07	
1,2-Dichloroethane	ug/L	<0.28	1.0	04/22/20 17:07	
1,2-Dichloropropane	ug/L	<0.28	1.0	04/22/20 17:07	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	04/22/20 17:07	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	04/22/20 17:07	
1,3-Dichloropropane	ug/L	<0.83	2.8	04/22/20 17:07	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	04/22/20 17:07	
2,2-Dichloropropane	ug/L	<2.3	7.6	04/22/20 17:07	
2-Chlorotoluene	ug/L	<0.93	5.0	04/22/20 17:07	
4-Chlorotoluene	ug/L	<0.76	2.5	04/22/20 17:07	
Benzene	ug/L	<0.25	1.0	04/22/20 17:07	
Bromobenzene	ug/L	<0.24	1.0	04/22/20 17:07	
Bromochloromethane	ug/L	<0.36	5.0	04/22/20 17:07	
Bromodichloromethane	ug/L	<0.36	1.2	04/22/20 17:07	
Bromoform	ug/L	<4.0	13.2	04/22/20 17:07	
Bromomethane	ug/L	<0.97	5.0	04/22/20 17:07	
Carbon tetrachloride	ug/L	<1.1	3.6	04/22/20 17:07	
Chlorobenzene	ug/L	<0.71	2.4	04/22/20 17:07	
Chloroethane	ug/L	<1.3	5.0	04/22/20 17:07	
Chloroform	ug/L	<1.3	5.0	04/22/20 17:07	
Chloromethane	ug/L	<2.2	7.3	04/22/20 17:07	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	04/22/20 17:07	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	04/22/20 17:07	
Dibromochloromethane	ug/L	<2.6	8.7	04/22/20 17:07	
Dibromomethane	ug/L	<0.94	3.1	04/22/20 17:07	
Dichlorodifluoromethane	ug/L	<0.50	5.0	04/22/20 17:07	
Diisopropyl ether	ug/L	<1.9	6.3	04/22/20 17:07	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40206463

METHOD BLANK: 2043747

Matrix: Water

Associated Lab Samples: 40206463001, 40206463002, 40206463003, 40206463004, 40206463005, 40206463006, 40206463007

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	<0.32	1.1	04/22/20 17:07	
Hexachloro-1,3-butadiene	ug/L	<1.5	4.9	04/22/20 17:07	
Isopropylbenzene (Cumene)	ug/L	<1.7	5.6	04/22/20 17:07	
m&p-Xylene	ug/L	<0.47	2.0	04/22/20 17:07	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	04/22/20 17:07	
Methylene Chloride	ug/L	<0.58	5.0	04/22/20 17:07	
n-Butylbenzene	ug/L	<0.71	2.4	04/22/20 17:07	
n-Propylbenzene	ug/L	<0.81	5.0	04/22/20 17:07	
Naphthalene	ug/L	<1.2	5.0	04/22/20 17:07	
o-Xylene	ug/L	<0.26	1.0	04/22/20 17:07	
p-Isopropyltoluene	ug/L	<0.80	2.7	04/22/20 17:07	
sec-Butylbenzene	ug/L	<0.85	5.0	04/22/20 17:07	
Styrene	ug/L	<3.0	10.0	04/22/20 17:07	
tert-Butylbenzene	ug/L	<0.30	1.0	04/22/20 17:07	
Tetrachloroethene	ug/L	<0.33	1.1	04/22/20 17:07	
Toluene	ug/L	<0.27	0.90	04/22/20 17:07	
trans-1,2-Dichloroethene	ug/L	<0.46	1.5	04/22/20 17:07	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	04/22/20 17:07	
Trichloroethene	ug/L	<0.26	1.0	04/22/20 17:07	
Trichlorofluoromethane	ug/L	<0.21	1.0	04/22/20 17:07	
Vinyl chloride	ug/L	<0.17	1.0	04/22/20 17:07	
4-Bromofluorobenzene (S)	%	95	70-130	04/22/20 17:07	
Dibromofluoromethane (S)	%	108	70-130	04/22/20 17:07	
Toluene-d8 (S)	%	101	70-130	04/22/20 17:07	

LABORATORY CONTROL SAMPLE: 2043748

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	49.1	98	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	57.7	115	64-131	
1,1,2-Trichloroethane	ug/L	50	56.0	112	70-130	
1,1-Dichloroethane	ug/L	50	56.5	113	69-163	
1,1-Dichloroethene	ug/L	50	44.6	89	77-123	
1,2,4-Trichlorobenzene	ug/L	50	41.3	83	68-130	
1,2-Dibromo-3-chloropropane	ug/L	50	44.4	89	63-130	
1,2-Dibromoethane (EDB)	ug/L	50	52.2	104	70-130	
1,2-Dichlorobenzene	ug/L	50	50.0	100	70-130	
1,2-Dichloroethane	ug/L	50	61.1	122	78-142	
1,2-Dichloropropane	ug/L	50	59.1	118	86-134	
1,3-Dichlorobenzene	ug/L	50	48.7	97	70-130	
1,4-Dichlorobenzene	ug/L	50	49.5	99	70-130	
Benzene	ug/L	50	52.3	105	70-130	
Bromodichloromethane	ug/L	50	55.9	112	70-130	
Bromoform	ug/L	50	46.9	94	70-130	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40206463

LABORATORY CONTROL SAMPLE: 2043748

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromomethane	ug/L	50	29.4	59	39-129	
Carbon tetrachloride	ug/L	50	51.3	103	70-132	
Chlorobenzene	ug/L	50	52.0	104	70-130	
Chloroethane	ug/L	50	47.2	94	66-140	
Chloroform	ug/L	50	54.1	108	75-132	
Chloromethane	ug/L	50	43.2	86	32-143	
cis-1,2-Dichloroethene	ug/L	50	50.0	100	70-130	
cis-1,3-Dichloropropene	ug/L	50	46.1	92	70-130	
Dibromochloromethane	ug/L	50	56.3	113	70-130	
Dichlorodifluoromethane	ug/L	50	33.6	67	10-141	
Ethylbenzene	ug/L	50	50.4	101	80-120	
Isopropylbenzene (Cumene)	ug/L	50	47.6	95	70-130	
m&p-Xylene	ug/L	100	100	100	70-130	
Methyl-tert-butyl ether	ug/L	50	46.2	92	61-129	
Methylene Chloride	ug/L	50	47.3	95	70-130	
o-Xylene	ug/L	50	49.3	99	70-130	
Styrene	ug/L	50	51.8	104	70-130	
Tetrachloroethene	ug/L	50	47.1	94	70-130	
Toluene	ug/L	50	50.5	101	80-120	
trans-1,2-Dichloroethene	ug/L	50	47.0	94	70-130	
trans-1,3-Dichloropropene	ug/L	50	42.6	85	69-130	
Trichloroethene	ug/L	50	53.2	106	70-130	
Trichlorofluoromethane	ug/L	50	55.5	111	75-145	
Vinyl chloride	ug/L	50	39.7	79	51-140	
4-Bromofluorobenzene (S)	%			98	70-130	
Dibromofluoromethane (S)	%			109	70-130	
Toluene-d8 (S)	%			99	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2043780 2043781

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40206463005 Result	Spike Conc.	Spike Conc.	Conc.								
1,1,1-Trichloroethane	ug/L	<0.24	50	50	50.2	51.6	100	103	70-130	3	20		
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	54.5	55.2	109	110	64-137	1	20		
1,1,2-Trichloroethane	ug/L	<0.55	50	50	53.1	54.7	106	109	70-137	3	20		
1,1-Dichloroethane	ug/L	<0.27	50	50	56.1	57.0	112	114	69-163	2	20		
1,1-Dichloroethene	ug/L	<0.24	50	50	46.1	46.6	92	93	77-129	1	20		
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	42.6	45.2	85	90	68-130	6	20		
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	42.5	43.4	85	87	60-130	2	20		
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	49.5	51.2	99	102	70-130	3	20		
1,2-Dichlorobenzene	ug/L	<0.71	50	50	48.8	50.6	98	101	70-130	4	20		
1,2-Dichloroethane	ug/L	<0.28	50	50	58.6	59.7	117	119	78-145	2	20		
1,2-Dichloropropane	ug/L	<0.28	50	50	57.6	58.8	115	118	86-135	2	20		
1,3-Dichlorobenzene	ug/L	<0.63	50	50	48.2	50.1	96	100	70-130	4	20		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40206463

Parameter	Units	2043780		2043781		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40206463005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
1,4-Dichlorobenzene	ug/L	<0.94	50	50	49.2	50.8	98	102	70-130	3	20		
Benzene	ug/L	<0.25	50	50	52.4	53.2	105	106	70-136	1	20		
Bromodichloromethane	ug/L	<0.36	50	50	53.9	55.1	108	110	70-130	2	20		
Bromoform	ug/L	<4.0	50	50	45.1	46.0	90	92	69-130	2	20		
Bromomethane	ug/L	<0.97	50	50	33.9	39.0	68	78	39-138	14	20		
Carbon tetrachloride	ug/L	<1.1	50	50	53.7	55.0	107	110	70-142	2	20		
Chlorobenzene	ug/L	<0.71	50	50	51.1	52.5	102	105	70-130	3	20		
Chloroethane	ug/L	<1.3	50	50	47.0	48.1	94	96	61-149	2	20		
Chloroform	ug/L	<1.3	50	50	54.0	54.0	108	108	75-133	0	20		
Chloromethane	ug/L	<2.2	50	50	42.1	41.0	84	82	32-143	3	20		
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	50.1	51.0	100	102	70-130	2	20		
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	44.9	46.0	90	92	70-130	2	20		
Dibromochloromethane	ug/L	<2.6	50	50	53.9	55.7	108	111	70-130	3	20		
Dichlorodifluoromethane	ug/L	<0.50	50	50	31.6	32.0	63	64	10-141	1	20		
Ethylbenzene	ug/L	<0.32	50	50	50.5	52.3	101	105	80-120	3	20		
Isopropylbenzene (Cumene)	ug/L	<1.7	50	50	47.9	49.3	96	99	70-130	3	20		
m&p-Xylene	ug/L	<0.47	100	100	99.3	102	99	102	70-130	3	20		
Methyl-tert-butyl ether	ug/L	<1.2	50	50	44.3	44.6	89	89	61-136	1	20		
Methylene Chloride	ug/L	<0.58	50	50	46.3	47.1	93	94	68-137	2	20		
o-Xylene	ug/L	<0.26	50	50	48.4	50.0	97	100	70-130	3	20		
Styrene	ug/L	<3.0	50	50	49.9	51.9	100	104	70-130	4	20		
Tetrachloroethene	ug/L	<0.33	50	50	49.4	50.4	99	101	70-130	2	20		
Toluene	ug/L	<0.27	50	50	50.4	51.9	101	104	80-120	3	20		
trans-1,2-Dichloroethene	ug/L	<0.46	50	50	48.0	48.6	96	97	70-130	1	20		
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	41.7	43.2	83	86	69-130	4	20		
Trichloroethene	ug/L	<0.26	50	50	53.3	54.9	107	110	70-130	3	20		
Trichlorofluoromethane	ug/L	<0.21	50	50	56.3	57.2	113	114	74-157	1	20		
Vinyl chloride	ug/L	<0.17	50	50	40.5	41.3	81	83	51-140	2	20		
4-Bromofluorobenzene (S)	%						99	100	70-130				
Dibromofluoromethane (S)	%						110	109	70-130				
Toluene-d8 (S)	%						100	100	70-130				

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40206463

QC Batch:	352919	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40206463001, 40206463002, 40206463003, 40206463004, 40206463005, 40206463006, 40206463007, 40206463008, 40206463010

METHOD BLANK: 2043325 Matrix: Water

Associated Lab Samples: 40206463001, 40206463002, 40206463003, 40206463004, 40206463005, 40206463006, 40206463007, 40206463008, 40206463010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	<0.44	2.0	04/20/20 17:36	

LABORATORY CONTROL SAMPLE: 2043326

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	20	19.9	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2043327 2043328

Parameter	Units	40206463001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Sulfate	mg/L	17.0	20	20	38.3	38.1	107	106	90-110	1	15	

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QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40206463

QC Batch:	352865	Analysis Method:	SM 5310C
QC Batch Method:	SM 5310C	Analysis Description:	5310C Total Organic Carbon
		Laboratory:	Pace Analytical Services - Green Bay

Associated Lab Samples: 40206463001, 40206463002, 40206463003, 40206463004, 40206463005, 40206463006, 40206463007, 40206463008, 40206463010

METHOD BLANK: 2043146 Matrix: Water
Associated Lab Samples: 40206463001, 40206463002, 40206463003, 40206463004, 40206463005, 40206463006, 40206463007, 40206463008, 40206463010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<0.15	0.50	04/20/20 03:13	

LABORATORY CONTROL SAMPLE: 2043147

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	2.5	2.5	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2043148 2043149

Parameter	Units	10514997002 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Total Organic Carbon	mg/L	0.50	1	1	1.5	1.5	104	104	80-120	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2043150 2043151

Parameter	Units	10515000001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Total Organic Carbon	mg/L	1.6	1	1	2.6	2.7	100	106	80-120	2	10	

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QUALIFIERS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40206463

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above LOD.

J - Estimated concentration at or above the LOD and below the LOQ.

LOD - Limit of Detection adjusted for dilution factor, percent moisture, initial weight and final volume.

LOQ - Limit of Quantitation adjusted for dilution factor, percent moisture, initial weight and final volume.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected at or above the adjusted LOD.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

HS Results are from sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 20.0155935.01 TRENT TUBE
Pace Project No.: 40206463

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40206463001	MW-2	EPA 8015B Modified	353014		
40206463002	MW-1R	EPA 8015B Modified	353014		
40206463003	MW-18R	EPA 8015B Modified	353014		
40206463004	DUP-1	EPA 8015B Modified	353014		
40206463005	MW-38	EPA 8015B Modified	353014		
40206463006	OP-14	EPA 8015B Modified	353014		
40206463007	MW-41	EPA 8015B Modified	353014		
40206463008	MW-42	EPA 8015B Modified	353014		
40206463010	MW-4	EPA 8015B Modified	353014		
40206463001	MW-2	EPA 6010	353306		
40206463002	MW-1R	EPA 6010	353306		
40206463003	MW-18R	EPA 6010	353306		
40206463004	DUP-1	EPA 6010	353306		
40206463005	MW-38	EPA 6010	353306		
40206463006	OP-14	EPA 6010	353306		
40206463007	MW-41	EPA 6010	353306		
40206463008	MW-42	EPA 6010	353306		
40206463010	MW-4	EPA 6010	353306		
40206463001	MW-2	EPA 8260	353031		
40206463002	MW-1R	EPA 8260	353031		
40206463003	MW-18R	EPA 8260	353031		
40206463004	DUP-1	EPA 8260	353031		
40206463005	MW-38	EPA 8260	353031		
40206463006	OP-14	EPA 8260	353031		
40206463007	MW-41	EPA 8260	353031		
40206463008	MW-42	EPA 8260	352947		
40206463009	TRIP	EPA 8260	352947		
40206463010	MW-4	EPA 8260	352947		
40206463001	MW-2	EPA 300.0	352919		
40206463002	MW-1R	EPA 300.0	352919		
40206463003	MW-18R	EPA 300.0	352919		
40206463004	DUP-1	EPA 300.0	352919		
40206463005	MW-38	EPA 300.0	352919		
40206463006	OP-14	EPA 300.0	352919		
40206463007	MW-41	EPA 300.0	352919		
40206463008	MW-42	EPA 300.0	352919		
40206463010	MW-4	EPA 300.0	352919		
40206463001	MW-2	SM 5310C	352865		
40206463002	MW-1R	SM 5310C	352865		
40206463003	MW-18R	SM 5310C	352865		
40206463004	DUP-1	SM 5310C	352865		
40206463005	MW-38	SM 5310C	352865		
40206463006	OP-14	SM 5310C	352865		
40206463007	MW-41	SM 5310C	352865		
40206463008	MW-42	SM 5310C	352865		
40206463010	MW-4	SM 5310C	352865		

REPORT OF LABORATORY ANALYSIS

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 1241 Bellevue Street, Green Bay, WI 54302	Document Name: Sample Condition Upon Receipt (SCUR)	Document Revised: 26Mar2020
	Document No.: ENV-FRM-GBAY-0014-Rev.00	Author: Pace Green Bay Quality Office

Sample Condition Upon Receipt Form (SCUR)

Client Name: GZA GeoEnvironmental

Project #: **WO# : 40206463**

Courier: CS Logistics Fed Ex Speedee UPS Walco
 Client Pace Other: _____



Tracking #: 235041720

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Custody Seal on Samples Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used SR-n/a Type of Ice: Wet Blue Dry None

Samples on ice, cooling process has begun

Cooler Temperature Uncorr: RUE / Corr: LoI

Temp Blank Present: yes no

Biological Tissue is Frozen: yes no

Person examining contents:

Date: 4-18-20 / Initials: MLR

Temp should be above freezing to 6°C.

Biota Samples may be received at ≤ 0°C if shipped on Dry Ice.

Labeled By Initials: MLR

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	2. PO #; invoice to phone; test for TB MCH 4-18-20
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	5.
- VOA Samples frozen upon receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No	Date/Time:
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume:		8.
For Analysis: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No MS/MSD: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
-Pace IR Containers Used:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	10.
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. 002 AB45 - time 9:20, 003 BP3U - date is 4/14, 006 (1) V69H - time 1751, 009 - no
-Includes date/time/ID/Analysis Matrix: <u>W</u>		
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13. time on V69H. 010 (1) V69H - unable to read pull date MCH 4-18-20
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased): <u>441</u>		

Client Notification/ Resolution:

If checked, see attached form for additional comments

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

PM Review is documented electronically in LIMs. By releasing the project, the PM acknowledges they have reviewed the sample logir