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September 19, 2019  
File No. 20.0155935.01

Mr. Michael Schmoller, Hydrogeologist  
Wisconsin Department of Natural Resources  
Remediation and Redevelopment Program  
3911 Fish Hatchery Road  
Fitchburg, Wisconsin 53711

Re: Groundwater Remediation Scope of Work and  
Temporary Exemption Request for Groundwater Remedial Action  
Former Trent Tube Plant No. 1  
2188 Church Street  
East Troy, Wisconsin  
BRRTS #02-65-245827

Dear Mr. Schmoller:

GZA GeoEnvironmental, Inc. (GZA), on behalf of EnPro Holdings, Inc. (EnPro), is submitting this letter report to the Wisconsin Department of Natural Resources (WDNR) for enhanced reductive dechlorination (ERD) groundwater remediation scope of work and information necessary to meet the permitting requirements for the injection of electron donor at 2188 Church Street in East Troy, Wisconsin ("Site"), as shown on Figure 1. As the proposed ERD groundwater remediation involves injection of materials into the waters of the State (i.e., groundwater), this process requires a temporary exemption under Chapter NR 140.28(5) and a variance from Chapter NR 812.05 of the Wisconsin Administrative Code (Wis. Adm. Code).

A check in the amount of \$700 (other technical assistance category) is included with the copy submitted to the Environmental Program Associate, Ms. Wendy Weihemuller to cover the WDNR review fee. Limitations to this document are provided in Attachment 1.

## INTRODUCTION

The Trent Tube Plant No.1 site (Trent Tube) formerly operated as a manufacturer of stainless steel tubes and utilized chlorinated hydrocarbons in the manufacturing process for degreasing parts. Figure 2 shows the Site layout and former features of the manufacturing operations. As soil and groundwater samples from the Site were determined to be affected by chlorinated hydrocarbons during investigation activities, an environmental case was opened by the WDNR and BRRTS No. 02-65-245827 was assigned to the Site. Subsequent Site investigation activities during multiple investigation events have delineated the extent of chlorinated hydrocarbons in groundwater at the Site. In 1999, a Groundwater Extraction Treatment System (GETS) was installed to provide hydraulic control of the groundwater plume from entering Honey Creek, which is adjacent to the south side of the Site.

The GETS includes 26 recovery wells that pump groundwater to two remediation buildings located near Honey Creek. The groundwater is treated by the remediation system using a six-stage air diffuser and three 1,000-pound granular-activated carbon canisters prior to discharge of the treated water to Honey Creek in accordance with the general Wisconsin Pollution Discharge Elimination System (WPDES) permit. The GETS has operated since 1999, and is anticipated to



continue to operate until such time as an alternative groundwater remedy can be implemented to demonstrate that the operation of the GETS is no longer necessary.

In addition, groundwater monitoring and analytical testing have been performed in the monitoring well network across the Site from at least 1999 to present. The results of the groundwater monitoring have identified the primary contaminants of concern to be trichloroethene (TCE) and its breakdown products (cis-1,2-dichloroethene [DCE] and vinyl chloride). The results of the groundwater sampling have shown detections of other chlorinated hydrocarbons in the groundwater, including 1,1,1-TCE; 1,1,2-TCE; 1,1-dichloroethane (1,1-DCA); 1,2-DCA; 1,1-DCE; and tetrachloroethene (PCE) at concentrations that exceed the respective preventive action limit (PALs) and/or enforcement standards (ESs). The areal extent of the other chlorinated hydrocarbon constituents is within limited areas that coincide with TCE-affected groundwater. In those areas, the TCE concentration is generally higher. Therefore, the remediation of the Site will focus on TCE and its breakdown products, with the other chlorinated hydrocarbon concentrations being remediated and monitored as the remediation progresses.

Currently, the Site is a vacant parcel with limited improvements. There are two remediation buildings and a pole barn near the center of the Site along Honey Creek and another pole barn in the northeast corner of the Site. The aboveground portions of the former manufacturing buildings on the western portion of the Site have been demolished. However, the subsurface features of the buildings remain on-Site. The concrete floors in some, but not all, portions of the former building have been removed.

There is a former flume structure that crosses the Site from the mill pond on the west side of Highway 120 to approximately the east side of the former building. This flume was abandoned during demolition activities by exposing the flume structure at a location on-Site and plugging the pipe with concrete. The flume structure remains in place for at least the portion of the flume that is on the west half of the Site.

There is an Area of Consolidation (AOC) near the center of the property, east of the former building, that was approved by the WDNR. The AOC was constructed over a former impoundment that was used during the early period of the operations at the Site. The AOC contains material from the Site and Honey Creek that was placed in a bermed area and covered with a geotextile fabric and clean cap soils. The AOC is approximately 6 to 8 feet above grade on the east side and meets the existing grade on the west side. Soil samples were collected from the AOC in June 2019, to evaluate the concentrations in and conditions of the soils. The results indicate the presence of chlorinated hydrocarbons (PCE, TCE, cis-1,2-DCE, and vinyl chloride) and naphthalene in the soils. The primary contaminant in the AOC soil samples is TCE; it was detected in the samples collected from the AOC. The TCE soil concentrations exceed the soil to groundwater residual contaminant level (RCL); however, the monitoring wells in the AOC do not contain concentrations of TCE that exceed the PAL and/or ES. The groundwater in the AOC does not require additional active remediation.

### **BASELINE GROUNDWATER SAMPLING**

From June 18 to 21, 2019, groundwater samples were collected from the monitoring wells, recovery wells, and observation points at the Site using low-flow purging and sampling techniques. During the low-flow purging process, field measurements of pH, conductivity, temperature, oxidation-reduction potential (ORP), and dissolved oxygen (DO) were recorded at regular intervals to determine when purging was complete, and a representative sample could be collected. The locations of the Site monitoring wells, recovery wells, and observation points are shown on Figure 2. A summary of the field parameters is shown on Table 1. The samples were submitted to Pace Analytical Services, LLC of Green Bay, Wisconsin for analysis of volatile organic compounds (VOCs), general inorganic parameters, and total organic carbon (TOC).

Based on the June 2019 groundwater sampling results, there are two areas of TCE-affected groundwater that exceed the ES. One area is localized in the northern portion of the Site around MW-17R. The other area is located in the southern portion of the former building, extending to the east along Honey Creek. Table 2 presents a summary of the groundwater



analytical results for the June 2019 sampling event. Attachment 2 includes the laboratory analytical results. Figures 3, 4, and 5 show the distribution of TCE, cis-1,2-DCE, and vinyl chloride in the groundwater, respectively.

The inorganic parameters provide geochemical evidence as to the possibility of enhancing the geochemical conditions to reduce the chlorinated hydrocarbon concentrations through a microbial process. An evaluation of the inorganic parameter analysis indicates that TOC concentrations ranged from 1.9 to 6.7 milligrams per liter (mg/l), which is less than the optimal range of greater than 20 mg/l. This suggests that TOC is a limiting factor in the reductive dechlorination process and that the addition of a carbon-based food source for dechlorinating bacteria is necessary to encourage biological reduction of TCE. The groundwater was not analyzed to determine the presence of dehalococcoides spp. As the results of the groundwater samples indicate that daughter products from the degradation of TCE are present in the groundwater at concentrations exceeding the ES in some portions of the Site, therefore, it was concluded that in those areas there is a microbial population present that can be stimulated with the addition of a carbon source to enhance the reductive dechlorination of TCE. The area near MW-2 on the western portion of the Site does not have daughter products present. Therefore, bioaugmentation along with the addition of an electron donor (vegetable oil) is proposed.

Other important factors to evaluate include pH, alkalinity, and temperature. The pH measured during the low-flow purging was near neutral (6.7 - 8.07). This is important because the microbial population are active in neutral conditions. The average concentration of alkalinity was 403 mg/L. Alkalinity measures the natural capacity of the aquifer to buffer the effects on pH from the fermentation of the electron donor which will produce hydrogen that can influence the pH. The groundwater temperature was approximately 11 to 12 degrees Celsius (°C). This temperature is sufficient to maintain the microbial population. Finally, based on in-situ aquifer testing of monitoring wells, the soils at the Site were estimated to have a saturated hydraulic conductivity in the range of  $1.96 \times 10^{-3}$  to  $4.21 \times 10^{-2}$  centimeters per second (cm/sec). Hydraulic conductivity is used to calculate the groundwater velocity to determine if there is sufficient groundwater flow to allow migration of the electron donor through the subsurface. The groundwater velocity is not a measure of contaminant migration because it is retarded by other subsurface factors and is only an estimate of the groundwater flow. In-situ aquifer testing data and calculations are provided in Attachment 3.

#### **SITE CONDITION SUMMARY**

1. In general, the relevant subsurface conditions consist of interbedded, cohesive clayey layers and granular layers. The granular layers consist of poorly-graded, fine sand to well-graded sand with varying amounts of silt. Bedrock was not encountered during drilling at this Site and is estimated to be at a depth of 100 to 150 feet below ground surface (bgs).
2. Groundwater was measured at a depth ranging from 6 to 8 feet bgs with shallower depths to groundwater encountered along Honey Creek. Groundwater flow at the Site is south/southeast toward Honey Creek, at an average hydraulic gradient of 0.025 feet per foot (ft/ft). The groundwater flow direction measured during the June 2019 sampling event is shown on Figure 6.
3. The saturated soils have estimated hydraulic conductivity in the range of  $1.96 \times 10^{-3}$  to  $4.21 \times 10^{-2}$  cm/sec with a geometric mean of  $1.08 \times 10^{-2}$  cm/sec. The horizontal groundwater flow velocity is estimated at approximately 800 feet per year.
4. TCE is the primary chlorinated hydrocarbon detected in groundwater and most recently has been detected at concentrations ranging from approximately 5,000 micrograms per liter ( $\mu\text{g/l}$ ) in MW-18R and MW-42 to 16,000  $\mu\text{g/l}$  in MW-2. These monitoring wells are located in the southern portion of the former building on the west side of the Site in an area that was reportedly used as a vapor degreasing area. Concentrations of degradation products cis-1,2-DCE and vinyl chloride were also detected in the groundwater sample from MW-18R, but not in MW-42 or MW-2. Based on soil samples collected during the investigation across the Site, there are areas of the Site that exceed the soil to groundwater pathway, as shown on Figure 7. On this figure, the highest concentrations in the soil are in the areas designated as exceeding the direct contact RCL. In these areas, the concentrations also exceed the soil to groundwater



RCL. Based on a review of the shallow soil samples results it does not appear that TCE leaching from the shallow soils will affect the effectiveness of the ERD injection program.

5. The TCE-equivalent mass calculated from the June 2019 groundwater analytical results indicate approximately 49 pounds of TCE-equivalent mass in the groundwater or approximately 4 gallons of TCE distributed throughout the groundwater plume.
6. Given that the GETS has operated for approximately 20 years and the groundwater concentrations have stabilized over that time period, the remedial goals are to create an environment that will facilitate biodegradation of the primary area of impacted groundwater and that will effectively reduce the residual chlorinated hydrocarbon mass in groundwater.

Based on the Site soil and groundwater conditions, applicable remedial technologies and the remediation goal, an ERD remedial action was selected for implementation at the Site. Conditions detrimental to an ERD remedial option (very low pH conditions, poor soil and groundwater buffering capacity, and low groundwater temperature) do not, and are not expected to exist at the Site based on analytical testing and related experience.

#### **PROPOSED GROUNDWATER REMEDIATION SCOPE OF WORK**

An ERD groundwater remedial action pilot test is proposed to be implemented to demonstrate that ERD is a viable remedial alternative for the Site. The pilot test will be implemented in an area of the Site that appears to have limited indications of dechlorination under natural conditions. The pilot test will utilize commercially-available electron donor products that can provide a longer-term solution so that the effectiveness can be evaluated for the design of a full-scale ERD implementation at the Site.

The ERD pilot test consisting of the injection of electron donor through direct push borings drilled along transects oriented perpendicular to groundwater flow is proposed for an area approximately 120 feet by 130 feet in the southwest corner of the Site. The injection points are proposed in the area with the highest TCE concentration in groundwater and an area where there is limited evidence of degradation due to the absence of TCE daughter products. The success of electron donor injections in this area would be an indication that this process could be implemented across the remainder of the groundwater plume to reduce the chlorinated hydrocarbon concentrations.

The electron donor proposed for use at the Site is emulsified vegetable oil (EVO) supplied by RNAS Remediation Products under the product name Newman Zone<sup>®</sup> 55. The Newman Zone<sup>®</sup> 55 safety data sheets (SDSs) are provided as Attachment 4. The EVO product proposed will allow the establishment of longer term suitable groundwater geochemical conditions that will facilitate ERD due to the ability of the emulsified oil to adsorb to the aquifer matrix and release electron donor over an extended time period compared to other soluble products such as sodium lactate.

The concentration of biota was not measured at this Site, but based on the limited evidence of dechlorination, bioaugmentation is also being proposed to facilitate a quicker ERD response and avoid the delay that typically occurs as the appropriate biota is established in response to the addition of the electron donor. Bioaugmentation will consist of adding commercially-available active biological cultures to enhance already present, naturally-occurring microbes provided by RNAS under the product name SDC-9 and TCA-20 and is expected to reduce the time period under which substantial TCE degradation will be observed. Each 1,000 gallons of treated groundwater used for dilution water will be treated with Newman Zone OS<sup>™</sup> to remove DO and render the dilution water anaerobic prior to addition of the culture to the injection solution. The SDSs for Newman Zone OS<sup>™</sup>, SDC-9, and TCA-20 are provided as Attachment 4.

The proposed design elements include the following:

- Injections are proposed to occur in borings drilled on a 20-foot spacing along three transects oriented perpendicular to groundwater flow, with the transects offset and separated by approximately 20 feet. The transects are proposed



to consist of four transect with seven injection locations each (28 total) spaced at approximately 20 feet on center and spaced 20 feet between transects. The proposed injection transects are shown on Figure 8.

- The injections are proposed to occur over an approximately 10-foot vertical treatment interval from the water table at a depth of approximately 7 feet to a depth of 17 feet. The injection over this 10-foot interval is anticipated to occur within three separate intervals.
- The proposed 10-foot interval for electron donor injections is based on the ability to deliver electron donor in direct push borings (to the depth of treatment). The lithology at the Site, which consists of sandy materials overlying silt, creates a difference in hydraulic conductivity and creates a horizontal flow dominated regime. There is an approximate 99% reduction in TCE concentrations between nearby monitoring wells MW-4 and MW-4A which are screened at 10 to 20 feet bgs and 44 to 49 feet bgs, respectively. The combination of this reduction and the limited downward vertical hydraulic gradient measured at the Site indicates little, if any, downward migration of electron donor.
- The injections will occur at pressures of up to 30 pounds per square inch (psi) with the injection rates anticipated to be up to 5 gallons per minute (gpm) at a single injection location.
- Approximately 12,600 pounds (approximately 1,500 gallons) of EVO will be diluted with approximately 15,000 gallons of groundwater treated with approximately 125 pounds (15 gallons) of Newman Zone OS™, and 15 liters of a mixture culture of SDC-9 and TCA-20. The total volume of injection fluid will be approximately 16,600 gallons. This injection fluid will be distributed through 28 injection points at three different intervals within the injection point. A total of approximately 535 gallons of electron donor solution will be injected at each of the 28 proposed injection locations.
- Since the injection volume in total is estimated at less than 5% of the groundwater volume within the estimated area of impact, the injections are not expected to result in measurable movement of impacted groundwater.

#### **PROPOSED GROUNDWATER MONITORING PLAN**

As presented in Table 3, groundwater samples will be collected from existing monitoring wells proximal to and downgradient of the injection area for geochemical parameters, chlorinated volatile organic compounds (cVOCs), and aquifer conditions in advance of and following the injection activities to evaluate the performance and progress of the groundwater remediation.

As shown on Table 3, samples from monitoring wells will be analyzed for cVOCs, dissolved gases (methane, ethane, and ethene), TOC, dissolved iron, and sulfate. During low-flow purging, field instruments will be used to measure other field parameters including temperature, specific conductance, pH, DO, and ORP. The field parameters, including DO, ORP, and organic carbon concentration, will be used to evaluate whether suitable geochemical conditions are being created in the aquifer by the remedial materials to support anaerobic biological degradation of TCE.

In addition to groundwater sample collection, occasional water levels will be measured in the groundwater monitoring well network to assess the horizontal gradient, vertical gradient, and direction of groundwater flow.

#### **DISCHARGE MANAGEMENT PLAN**

A discharge management plan, as required under the NOI provided in Attachment 5 that includes the information specified in Section 3 of the July 1, 2018 WPDES Permit No. WI-0046566-07-0 for *Contaminated Groundwater From Remedial Action Operations*, is provided below. A summary of the WDNR-requested information is provided below in *italics* and the response follows.

1. *A detailed site map.* A Site layout is provided as Figure 2. The Site is within a municipal water service area. There is record of one potable well located approximately 400 feet north (upgradient) of the northern Site property boundary.



Based on the well record, the well was installed in 1983 for residential use and is 92 feet deep, completed in limestone bedrock. In addition, the Village of East Troy has a municipal water supply system. In accordance with Ordinance 475-3 (connection to public water supply; private wells), a property owner is required to connect to the municipal system within one year of the public water supply becoming accessible. The Village does allow the use of private water wells in areas where no public water supply is available. Based on the distance of this well from the northern property boundary of the Site, the depth of the well, and the requirements of the Village of East Troy ordinance, this well is not considered to be affected by the activities at the Site.

2. *A general description of the suspected sources of groundwater pollution at the site.* The source of TCE contamination on the Site is from the former vapor degreasing operations that were performed on-Site during the steel tube manufacturing process. This process is no longer being performed on-Site and is not an expected activity for future land use.
3. *Final plans and specifications for the proposed treatment system (if necessary).* A treatment system is not part of the groundwater remediation plan.
4. *General description of planned operation and maintenance.* As the injections will be performed in small-diameter borings that will be abandoned upon completion of the injection, operation and maintenance of a system will not occur. Proposed sampling locations and routine monitoring and analysis are provided in the Proposed Groundwater Monitoring Plan presented above.
5. *A listing of all required local, state and federal permits, licenses and approvals to construct and implement the remedial or interim action. Please include the s. NR 140.28(5), Wis. Adm Code, temporary exemption request and approval for the injection or infiltration of a substance or remedial material (if necessary).* A WPDES permit is required for the injections. The NOI is provided in Attachment 5. The NR 140.28(5) temporary exemption is also required for performing subsurface injections. This request is provided in the following section.
6. *Description of erosion and sediment control practices.* The discharge will occur below the ground surface through small-diameter borings without the installation of equipment or disturbance of the surface. The Site is currently covered by concrete, gravel, grass, and trees. The only surface disturbances planned are the drilling of the small-diameter injection borings. Erosion and sediment controls are not required.
7. *A summary of analytical results detected at the site for the substances listed in Table 2 of Section 5.3. The summary shall include results from any volatile organic compounds and polycyclic aromatic hydrocarbons compounds scans.* Summary tables for VOCs are provided in Table 2 for groundwater and Table 4 for soil.
8. *A summary of the substance or remedial material to be used for the purpose of restoring contaminated soil or groundwater (if necessary). Please include the material safety sheets for each substance or material and the sampling location of the discharge.* The SDSs of the proposed remedial materials to be injected are provided in Attachment 4.
9. *Monitoring exemption request for sampling for certain contaminants regulated by this permit. The applicant must demonstrate that the contaminants will not be present in the effluent discharge. The initial sample analysis results must not exceed 20% of any permit discharge limitations and certify that there is no abrupt chance that a permit limit will be exceeded through the treatment system.* The injection plan consists of collecting treated groundwater from the on-Site groundwater extraction treatment system, mixing it with the remedial materials, and injecting the mixture into the groundwater for in-situ treatment of contaminated groundwater. It is not expected that the injection program will result in the discharge of contaminants in the effluent discharge.
10. *Alternative sampling location request for monitoring groundwater discharges at a new or existing groundwater monitoring system downgradient of infiltration system to demonstrate compliance with this permit. Applicants must demonstrate that the groundwater monitoring system is downgradient of infiltration and that a representative sample*



*of the discharge will be collected.* The Proposed Groundwater Monitoring Plan presented above includes sampling of downgradient monitoring wells and analysis for constituents of concern.

11. *Applicants must demonstrate that there is no reasonable potential to exceed water quality standards listed in to chs. NR 102, NR 104, NR 105, NR 106, NR 207, and NR 217 Wis. Adm. Code, for pollutants not directly limited by this permit, or that there is no reasonable potential to exceed groundwater quality standards listed in Ch. NR 140, Wis. Adm. Code, for pollutants not directly limited by this permit.* Exceedance of groundwater quality standards are inherent in the ERD remedial method. The exceedances are generally considered acceptable temporary side effects of the method in order to remediate recalcitrant chlorinated hydrocarbons. An injection exemption request is provided below.

## **WPDES PERMIT APPLICATION**

Issuance of an injection permit (WPDES) by the WDNR is required before the injection can proceed. A WPDES permit application is provided as Attachment 5. Additional details for the proposed electron donor injection and monitoring are provided in the WPDES permit application.

## **EXEMPTION REQUEST**

Wis. Adm. Code Chapter NR 140.28(5) identifies prerequisites and criteria for granting a temporary exemption when infiltration or injection is utilized for a remedial action. The following sections provide information required by Paragraphs NR 140.28(5)(c) and (d).

### **NR 140.28(5)(c) – Exemption Prerequisites**

This section addresses the exemption prerequisites listed in Paragraphs 1 through 6 of NR 140.28(5)(c):

1. Reasonable Period of Time: This prerequisite requires the remedial action to achieve the applicable response objectives required by NR 140.24(2) (compliance with PALs) or NR 140.26(2) (compliance with ESs) within a reasonable period of time. The remedial strategy being implemented at the Site should produce a significant reduction in cVOC mass, as will be determined by periodically monitoring dissolved constituent concentrations following the injection program and observing the contaminant mass and concentration trends.
2. Minimization of Injected Remedial Material: The electron donor consisting of EVO and bioaugmentation products is designed to spread through groundwater flow to locations downgradient of each specific injection location and adsorb to the aquifer matrix. Following injection, the remedial material begins to be used by the ERD process and at some distance downgradient of the injection points, the remedial material is completely adsorbed. The adsorbed organic carbon establishes suitable geochemical conditions over the extent of the organic carbon distribution in the aquifer. The volume of injected remedial material is calculated based on the Site-specific conditions identified during the Site investigation and the properties of the remedial materials. These calculations are intended to minimize the volume of remedial material necessary to complete the remedial process.
3. Impacts to Public Health or Welfare: The affected groundwater intended for treatment is within the boundaries of the Site, which is fenced to restrict access to the public. The remedial material, prepared with treated groundwater from the Site, food-grade organic carbon, and biota for bioaugmentation, does not represent a threat to public health or welfare. The reductive dechlorination of TCE may form detectable cVOC daughter products; however, further degradation will occur as the daughter products in turn degrade to ethene, carbon dioxide, and water. A Site-specific health and safety plan will be prepared to address exposure during the implementation process.
4. Presence of Floating Non-Aqueous Phase Liquid: This prerequisite is not applicable. Light non-aqueous phase liquid (LNAPL) was not observed during the investigation in the area of the injections.



5. Expansion of Groundwater Contamination: Because the anticipated volume of injection solution is a small percentage of the volume of groundwater underlying the injection area (approximately 0.5%), measurable expansion of the impacted groundwater will not occur. The affected groundwater volume in the injection area is estimated to be approximately 750,000 gallons of groundwater and the total volume of remedial material mixture that is estimated for injection is 4,000 gallons.

Monitoring well water levels will be measured during the injections and groundwater monitoring events to evaluate Site groundwater flow patterns and confirm that substantial changes do not occur during injection events.

6. Other Permits and Licenses: A variance from the WDNR under Section NR 812.05 is required and is addressed below. The application for a WPDES permit is provided as Attachment 5.

#### **NR 140.28(5)(d) - Remedial Action Design, Operation and Monitoring Criteria**

This section addresses the design, operation and monitoring criteria listed in Paragraphs 1 through 5 of NR 140.28(5)(d):

1. Design, Operation and Monitoring Procedures: The injection procedures described above were established to comply with NR 140.28(5)(c) and (d).

The groundwater monitoring program described above will be implemented to evaluate the progress of remediation and groundwater system parameters. VOC results will provide an indication of the rate of biodegradation, changes in the dissolved plume and constituent concentration relative to Chapter NR 140 ESs. Water level data will be used to evaluate the remedial process' effect, if any, on groundwater flow. Field indicator parameters, as described above, will be used to confirm that geochemical conditions within the aquifer are suitable for anaerobic biological degradation of TCE.

Reporting of the monitoring well results will be conducted in accordance with Chapter NR 724 of the Wis. Adm. Code. A completed WDNR Form 4400-194 (R 11/14) will be submitted to the WDNR on a semiannual basis as long as groundwater remediation continues.

2. Pre-Treatment of Contaminated Groundwater: The injections will utilize a mixture of treated groundwater from the Site and electron donor with bioaugmentation. Because the water will be derived following the on-Site treatment process, pre-treatment of the dilution water with Newman Zone OS™ will be conducted to reduce oxygen levels.
3. Remedial Material Proposed for Injection: A solution of treated groundwater and electron donor with bioaugmentation will be used as the remedial material at the Site. The SDSs for the electron donor with bioaugmentation are provided in Attachments 4.
4. Volume and Rate of Injection: Approximately 4,000 gallons of the proposed dilute remedial material will be equally distributed among 13 direct push borings through direct injection at rates of up to 5 gpm and pressures of up to 30 psi.
5. Locations of Injection: Figure 8 illustrates the proposed injection transect locations.





## VARIANCE REQUEST

### NR 812.05 – Disposal of Pollutants; Injection Prohibition

Based on NR 812.05, "...the use of any well, drillhole or water system for the placement of any waste, surface or subsurface water or any substance, as defined in s. 160.01 (8), Stats., underground is prohibited unless...the placement is a department-approved activity necessary for...the remediation of contaminated soil, groundwater or an aquifer."

Because the injection of electron donor solution at the Site is a department-approved activity necessary for the remediation of contaminated groundwater, a variance under NR 812.05 is requested for this process.

We appreciate your timely review of this information to allow for this project to proceed as scheduled. If you have any questions or comments, please feel free to contact the undersigned at (262) 754-2560.

Very truly yours,

**GZA GeoEnvironmental, Inc.**

A handwritten signature in blue ink, appearing to read "Kevin M. Hedinger".

Kevin M. Hedinger  
Senior Hydrogeologist

A handwritten signature in blue ink, appearing to read "James F. Drought".

James F. Drought, P.H.  
Principal Hydrogeologist

J:\155900to155999\155935 Trent Tube\01 2019 Regulatory Support\NR 140 Variance- WPDES\0-FINAL 155935.01 NR140 Revised Exemption Request\_Trent Tube 9-19-19.docx

## Attachments

- c: Mr. Benne Hutson, EnPro Holdings, Inc.
- Mr. Phillip Bower, Husch Blackwell LLP
- Mr. Chris Dietrich, WDNR
- Water Permits Central Intake, WDNR
- Ms. Wendy Weihemuller (including technical review fee)



## TABLES

**TABLE 1**  
**SUMMARY OF FIELD PARAMETERS - MONITORING WELLS**  
**June 2019 Groundwater Sampling Event**  
**Former Trent Tube Plant No. 1**  
**2188 Church Street**  
**East Troy, Wisconsin**

Well ID	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	6/19/2019	13.1	25.06	0.3	60.1	1408	11.81	7.42
MW-2	6/19/2019	10.7	13.96	2.89	69.1	817	10.74	7.47
MW-4	6/19/2019	12.05	22.1	4.18	100.1	424	11.73	7.29
MW-4A	6/19/2019	13.25	51.2	2.26	76.7	394	12.26	7.66
MW-6	6/21/2019	11.92	19.83	3.02	5.4	1110	11.88	7.17
MW-6A	6/21/2019	13.89	35.24	0.22	-100	589	11.29	8.07
MW-7R	6/18/2019	6.72	13.78	0.35	-103.4	1116	12.26	7.21
MW-8	6/18/2019	3.46	6.72	1	-11.6	967	13.86	7.3
MW-11	6/19/2019	10.85	18.6	1.28	115.6	518	10.82	7.28
MW-12	6/18/2019	12.55	20.64	0.71	-97.9	1201	10.97	7.09
MW-13R	6/17/2019	12.66	20.49	3.57	-25.9	1115	11.13	6.99
MW-15	6/18/2019	11.47	18.95	0.8	37.5	1290	10.65	6.97
MW-16	6/18/2019	11.08	26.5	1.88	127.1	642	13.08	6.82
MW-17R	6/18/2019	6.42	19.2	0.05	-214.7	789	14.18	11
MW-18R	6/18/2019	10.18	22.4	1.14	-189.4	588	12.69	7.2
MW-19	6/19/2019	4.73	10.38	0.71	-120.5	975	12.95	7.37
MW-20	6/18/2019	5.46	11.56	0.31	23.7	876	12.92	7.08
MW-21	6/19/2019	7.15	17.6	0.96	100.1	1016	16.03	7.12
MW-25	6/19/2019	5.95	14.92	0.64	-55.9	1145	11.63	7.26
MW-27	6/19/2019	4.29	14.05	0.49	-49.5	2137	10.86	7.23
MW-29	6/19/2019	6.91	14.91	3.98	49.4	1247	11.73	7.3
MW37R	6/18/2019	7.38	20.7	1.05	166.1	297	14.05	7.46
MW-38	6/19/2019	10.25	19.3	4.77	81.2	590	13.21	7.64
MW-39	6/18/2019	12.73	22.05	2.39	-184.4	526	14.09	7.36
MW-40	6/18/2019	12.48	20.4	1.87	202.1	677	12.45	6.74
MW-41	6/19/2019	12.75	22.1	6.49	29.7	410	12.04	7.45
MW-42	6/19/2019	11.78	22.3	2.26	26.1	555	12.08	7.38
OP-1	6/21/2019	18.78	24.3	0.54	119.5	656	11.45	6.9
OP-2	6/21/2019	16.1	22.6	1.91	120.7	716	11.61	6.7
OP-3	6/21/2019	14.19	19.45	8.85	123.7	510	12.16	7.16
OP-4	6/21/2019	13.81	19.65	1.5	50.3	762	11.6	7.26
OP-5	6/21/2019	12.38	17.92	3.93	58.1	847	11.55	7.25
OP-8	6/20/2019	12.35	20.21	1.04	45.6	1349	10.14	7.14
OP-9	6/17/2019	11.2	23.3	0.42	-58.6	1562	10.83	6.83
OP-10	6/20/2019	7.4	19.6	0.72	-80.1	1117	11.87	7.28
OP-11	6/18/2019	13.45	24.86	0.25	-174.7	1267	11.49	7.72
OP-14	6/20/2019	12.02	21.95	4.56	109.4	668	11.28	7
OP-15	6/20/2019	15.22	24.5	0.36	133.4	678	12.21	6.9
OP-16	6/20/2019	17.42	24.45	0.17	-37.6	684	12.41	6.97

**Notes:**

1. btoc - below top of casing.
2. mg/L - milligrams per liter.
3. mV - millivolts.
4. µS/cm - milliSiemens per centimeter.
5. s.u. - Standard Units



**TABLE 2**  
**GROUNDWATER ANALYTICAL RESULTS**  
**June 2019 Groundwater Sampling Event**  
**Former Trent Tube Plant No. 1**  
**2188 Church Street**  
**East Troy, Wisconsin**

Well Number	Date	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
Preventive Action Limit		40	0.5	85	0.7	0.5	0.5	80	0.5	10	0.5	160	0.5	0.02	7	400	20
Enforcement Standard		200	5	850	7	5	5	400	5	100	5	800	5	0.2	70	2,000	100
OP-16	6/20/2019	7	< 1.1 U	26.2	0.99 J	< 0.56 U	< 0.49 U	< 2.7 U	< 1.2 U	< 2.4 U	< 0.65 U	< 0.34 U	<b>43.8</b>	<b>106</b>	<b>145</b>	1.2 J	< 2.2 U
RW-01	6/21/2019	142	< 0.55 U	9.8	2	< 0.28 U	< 0.25 U	< 1.3 U	< 0.58 U	< 1.2 U	< 0.33 U	< 0.17 U	<b>39.8</b>	<b>0.63 J</b>	52.8	< 0.26 U	< 1.1 U
RW-02	6/21/2019	<b>258</b>	< 5.5 U	24	3.2 J	< 2.8 U	< 2.5 U	< 13.4 U	< 5.8 U	< 11.8 U	< 3.3 U	< 1.7 U	<b>404</b>	<b>2.0 J</b>	<b>149</b>	< 2.6 U	< 10.9 U
RW-03	6/21/2019	<b>217</b>	< 55.2 U	42.9 J	< 24.5 U	< 28.0 U	< 24.6 U	< 134 U	< 58.1 U	< 118 U	< 32.6 U	< 17.2 U	<b>350</b>	<b>176</b>	<b>7800</b>	< 26.2 U	< 109 U
RW-04	6/21/2019	164	< 1.1 U	31.2	<b>7.5</b>	< 0.56 U	< 0.49 U	< 2.7 U	< 1.2 U	< 2.4 U	1.3 J	< 0.34 U	<b>143</b>	<b>2.5</b>	<b>174</b>	< 0.52 U	< 2.2 U
RW-05	6/21/2019	<b>290</b>	< 5.5 U	33.8	<b>12</b>	< 2.8 U	< 2.5 U	< 13.4 U	< 5.8 U	< 11.8 U	< 3.3 U	< 1.7 U	<b>520</b>	<b>24.3</b>	<b>1600</b>	< 2.6 U	16.6 J
RW-06	6/21/2019	< 2.4 U	< 5.5 U	< 2.7 U	< 2.4 U	< 2.8 U	< 2.5 U	< 13.4 U	< 5.8 U	< 11.8 U	< 3.3 U	< 1.7 U	<b>118</b>	<b>16.7</b>	<b>407</b>	< 2.6 U	< 10.9 U
RW-07	6/20/2019	< 2.4 U	< 5.5 U	< 2.7 U	<b>45.7</b>	< 2.8 U	< 2.5 U	< 13.4 U	< 5.8 U	< 11.8 U	< 3.3 U	< 1.7 U	<b>928</b>	<b>567</b>	<b>10900</b>	< 2.6 U	<b>53.7</b>
RW-08	6/21/2019	126	< 0.55 U	33.5	4.7	< 0.28 U	< 0.25 U	2.9 J	< 0.58 U	< 1.2 U	0.76 J	< 0.17 U	<b>16.6</b>	<b>21.5</b>	<b>202</b>	< 0.26 U	< 1.1 U
RW-10	6/20/2019	< 0.24 U	< 0.55 U	0.89 J	< 0.24 U	< 0.28 U	< 0.25 U	< 1.3 U	< 0.58 U	1.2 J	0.59 J	< 0.17 U	4	<b>2.9</b>	12.2	< 0.26 U	< 1.1 U
RW-11	6/20/2019	1.5	< 0.55 U	2.1	< 0.24 U	< 0.28 U	< 0.25 U	< 1.3 U	< 0.58 U	< 1.2 U	0.81 J	< 0.17 U	4.1	<b>8.4</b>	33.8	< 0.26 U	< 1.1 U
RW-12	6/20/2019	5.8	< 0.55 U	25.1	< 0.24 U	< 0.28 U	0.37 J	2.0 J	< 0.58 U	< 1.2 U	0.53 J	< 0.17 U	4.4	<b>7.3</b>	21.4	< 0.26 U	< 1.1 U
RW-13	6/20/2019	1.1 J	< 1.4 U	10.5	1.1 J	< 0.70 U	< 0.62 U	< 3.4 U	< 1.5 U	< 2.9 U	< 0.82 U	< 0.43 U	<b>71</b>	<b>24.6</b>	<b>351</b>	< 0.65 U	< 2.7 U
RW-14	6/19/2019	57.7	< 5.5 U	22.7	< 2.4 U	< 2.8 U	< 2.5 U	< 13.4 U	< 5.8 U	24.7 J	< 3.3 U	< 1.7 U	<b>31</b>	<b>112</b>	<b>669</b>	< 2.6 U	< 10.9 U
RW-15	6/18/2019	< 0.24 U	< 0.55 U	0.41 J	< 0.24 U	< 0.28 U	< 0.25 U	< 1.3 U	< 0.58 U	< 1.2 U	0.55 J	< 0.17 U	0.36 J	<b>0.40 J</b>	1.2	< 0.26 U	< 1.1 U
RW-16	6/20/2019	< 2.4 U	< 5.5 U	4.1 J	<b>13.2</b>	< 2.8 U	< 2.5 U	< 13.4 U	< 5.8 U	< 11.8 U	< 3.3 U	< 1.7 U	<b>9790</b>	<b>10.1</b>	<b>767</b>	< 2.6 U	<b>305</b>
RW-17	6/20/2019	54.5	< 5.5 U	6.6 J	< 2.4 U	< 2.8 U	< 2.5 U	< 13.4 U	< 5.8 U	< 11.8 U	<b>7.3 J</b>	< 1.7 U	<b>606</b>	< 1.7 U	39.3	< 2.6 U	< 10.9 U
RW-18	6/20/2019	74.4	< 2.8 U	5.2	3.1 J	< 1.4 U	< 1.2 U	< 6.7 U	< 2.9 U	< 5.9 U	2.7 J	< 0.86 U	<b>288</b>	< 0.87 U	45	< 1.3 U	5.7 J
RW-19	6/20/2019	36.3	< 5.5 U	11.5	3.3 J	< 2.8 U	< 2.5 U	< 13.4 U	< 5.8 U	< 11.8 U	<b>7.4 J</b>	< 1.7 U	<b>996</b>	<b>8.0 J</b>	<b>280</b>	< 2.6 U	19.8 J
RW-20	6/21/2019	34.1	< 5.5 U	2.7 J	2.8 J	< 2.8 U	< 2.5 U	< 13.4 U	< 5.8 U	< 11.8 U	< 3.3 U	< 1.7 U	<b>961</b>	<b>13.2</b>	<b>317</b>	< 2.6 U	< 10.9 U
RW-21	6/21/2019	102	< 2.8 U	11.8	3.0 J	< 1.4 U	< 1.2 U	< 6.7 U	< 2.9 U	< 5.9 U	< 1.6 U	< 0.86 U	<b>369</b>	<b>11.8</b>	<b>436</b>	< 1.3 U	< 5.5 U
RW-22	6/21/2019	74.8	< 5.5 U	19.5	4.7 J	< 2.8 U	< 2.5 U	< 13.4 U	< 5.8 U	< 11.8 U	< 3.3 U	< 1.7 U	<b>633</b>	< 1.7 U	<b>115</b>	< 2.6 U	< 10.9 U
RW-23	6/21/2019	<b>347</b>	< 5.5 U	23.1	<b>10.4</b>	< 2.8 U	< 2.5 U	< 13.4 U	< 5.8 U	< 11.8 U	< 3.3 U	< 1.7 U	<b>606</b>	< 1.7 U	<b>179</b>	< 2.6 U	< 10.9 U
RW-24	6/21/2019	<b>426</b>	< 0.55 U	115	<b>50.8</b>	0.49 J	< 0.25 U	9.5	< 0.58 U	< 1.2 U	0.97 J	< 0.17 U	<b>215</b>	<b>27.6</b>	<b>396</b>	< 0.26 U	3.2 J
RW-25	6/21/2019	49.9	< 0.55 U	17.5	3.3	< 0.28 U	< 0.25 U	< 1.3 U	< 0.58 U	< 1.2 U	0.89 J	< 0.17 U	<b>30.8</b>	<b>0.68 J</b>	59.8	< 0.26 U	< 1.1 U
RW-26	6/21/2019	< 2.4 U	< 5.5 U	< 2.7 U	< 2.4 U	< 2.8 U	< 2.5 U	< 13.4 U	< 5.8 U	< 11.8 U	< 3.3 U	< 1.7 U	<b>125</b>	<b>229</b>	<b>1400</b>	< 2.6 U	< 10.9 U
RW-27	6/20/2019	< 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	0.56 J	<b>7</b>	53.7	< 0.26 U	< 1.1 U
RW-28	6/20/2019	< 0.24 U	< 0.55 U	1	0.83 J	< 0.28 U	< 0.25 U	< 1.3 U	< 0.58 U	< 1.2 U	0.81 J	< 0.17 U	3.6	<b>166</b>	<b>171</b>	< 0.26 U	1.2 J

**Notes**

1. All results are in micrograms per liter unless otherwise specified
2. PAL exceedances = Shading
3. ES exceedances = Shading and bold font
4. NA= Not Analyzed

**TABLE 3**  
**PROPOSED GROUNDWATER REMEDIATION MONITORING**  
**Former Trent Tube Plant No. 1**  
**2188 Church Street**  
**East Troy, Wisconsin**

Monitoring Locations	Matrix	Frequency	Type of Analytical or Field Measurement	Comments
MW-1R, MW-2, MW-4, MW-18R, MW-38, MW-41, MW-42, OP-14	Water	Once Prior to Injections	cVOCs, dissolved gasses (methane, ethane and ethene), sulfate, dissolved iron, and total organic carbon <sup>2</sup>	To monitor baseline groundwater conditions for comparison to post-injection groundwater conditions
MW-1R, MW-2, MW-41, MW-42, OP-14	Water	Three-times Daily During Injections <sup>3</sup>	Groundwater Level	To monitor changes in groundwater levels during injections
MW-1R, MW-2, MW-4, MW-18R, MW-38, MW-41, MW-42, OP-14	Water	Monthly for three months	cVOCs, dissolved gasses (methane, ethane and ethene), sulfate, dissolved iron, total organic carbon <sup>2</sup>	To monitor changes in cVOC concentrations, electron acceptors and biodegradation product concentrations
MW-1R, MW-2, MW-4, MW-18R, MW-38, MW-41, MW-42, OP-14	Water	Quarterly for two rounds	cVOCs, dissolved gasses (methane, ethane and ethene), sulfate, dissolved iron, total organic carbon <sup>2</sup>	To monitor changes in cVOC concentrations, electron acceptors and biodegradation product concentrations

Notes

1. Field measurements of temperature, specific conductance, pH, dissolved oxygen, and oxidation-reduction potential will be made during purging.
2. Analyses for each of the parameters will be conducted by a state-certified laboratory in accordance with standard USEPA methodology.
3. The three-times daily measurements will be conducted prior to beginning injections each day, middle of the day, and at the end of the injection period each day.
4. Modifications to the schedule may be proposed prior to completion of the three quarterly groundwater sampling rounds as warranted by the ERD results.















**TABLE 4**  
**SOIL ANALYTICAL RESULTS**  
**VOCs**  
Former Trent Tube Plant No. 1  
2188 Church Street  
East Troy, Wisconsin

Sample Name	Sample Depth (ft)	Sample Date	TOC (mg/kg)	Gasoline Range Organics (mg/kg)	Acetone	Benzene	2-Butanone	n-Butylbenzene	sec-Butylbenzene	Carbon Tetrachloride	Chloroethane	Chloroform	Chloromethane	2-Chlorotoluene	1,1-Dichloroethane	1,2-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloroethenes (total)	Ethylbenzene	Hexachlorobutadiene	p-isopropyltoluene	m+p Xylene	Methylene chloride	Naphthalene (8260)	n-Propylbenzene
RCL Non-Industrial DC (ug/kg)			NE	NA	6.34E+07	1.60E+03	2.84E+07	1.08E+05	1.45E+05	9.16E+02	NA	4.54E+02	1.59E+05	9.07E+05	5.06E+03	6.52E+02	NA	156000	NA	NA	7.47E+06	1.63E+03	1.62E+05	7.78E+05	6.18E+04	5.52E+03	NA
RCL Industrial DC (ug/kg)			NE	NA	1.00E+08	7.07E+03	2.84E+07	1.08E+05	1.45E+05	4.03E+03	NA	1.98E+03	6.69E+05	9.07E+05	2.22E+04	2.87E+03	NA	2,340,000	NA	NA	3.54E+04	7.19E+03	1.62E+05	7.78E+05	1.15E+06	2.41E+04	NA
Groundwater Pathway			NE	NA	3.68E+03	5.12E+00	NA	NA	NA	3.88E+00	2.27E+02	3.33E+00	1.55E+01	NA	4.83E+02	2.84E+00	NA	41.2	NA	NA	7.85E+05	NA	NA	NA	1.57E+03	6.58E+02	NA
SB18-12	22-24	10/31/1995	NA	NA	NA	<5	NA	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	NA	<5	<5	<5	<10	<5	<5	<5
SB18-8	6-8	11/1/1995	NA	NA	NA	12	NA	130	<5	<5	<5	<5	<5	<5	<5	<5	<5	360	<5	NA	7.8	<5	28	18	<5	2200 J	10
SB18-8	14-18	10/31/1995	NA	NA	NA	<5	NA	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	NA	<5	<5	<5	<10	3000	1100	<5
SB19	0-2	10/18/1995	NA	NA	NA	<8.6	NA	<6.6	<6.6	<5	<5	<5	<5	<5	<8.6	<5	<5	<6.6	<6.6	NA	<8.6	<5	<6.6	<13	<6.6	<6.6	<6.6
SB19	2-4	10/18/1995	NA	NA	NA	<5	NA	<5	<5	<5	<5	<5	<5	<5	5.1	<5	<5	<5	<5	NA	<5	<5	<5	<10	<25	<5	<5
SB20-02	2-4	11/2/1995	NA	NA	NA	18	NA	<5	<5	<5	<5	<5	<5	<5	120	<5	<5	1100 J	8.6	NA	6.3	<5	<5	13	<5	<5	<5
SB20-05	8-10	11/2/1995	NA	NA	NA	<5	NA	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	22	<5	NA	<5	<5	<5	<10	<5	<5	<5
GP-09	0-4	06/23/16	NA	NA	NA	<25.0	NA	<25.0	<25.0	<25.0	<67.0	<46.4	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	NA	<25.0	<25.0	<25.0	<50.0	<25.0	NA	<25.0
GP-09	4-10	06/23/16	NA	NA	NA	<25.0	NA	148	50.7	<25.0	<67.0	<46.4	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	NA	<25.0	<25.0	68.4	<50.0	<25.0	NA	<25.0
MW-16 AREA W. POINT	0-4	06/23/16	NA	NA	NA	<25.0	NA	<25.0	<25.0	<25.0	<67.0	<46.4	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	NA	<25.0	<25.0	<25.0	<50.0	<25.0	NA	<25.0
MW-16 AREA W. POINT	4-10	06/23/16	NA	NA	NA	<25.0	NA	<25.0	<25.0	<25.0	<67.0	<46.4	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	NA	<25.0	<25.0	<25.0	<50.0	<25.0	NA	<25.0
MW-16 AREA RW-08	0-4	06/23/16	NA	NA	NA	<25.0	NA	<25.0	<25.0	<25.0	<67.0	<46.4	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	NA	<25.0	<25.0	<25.0	<50.0	<25.0	NA	<25.0
MW-16 AREA RW-08	4-10	06/23/16	NA	NA	NA	<25.0	NA	<25.0	<25.0	<25.0	<67.0	<46.4	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	NA	<25.0	<25.0	<25.0	<50.0	<25.0	NA	<25.0
FLUME VAULT WEST	0-4	06/23/16	NA	NA	NA	<25.0	NA	<25.0	<25.0	<25.0	<67.0	<46.4	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	NA	<25.0	<25.0	<25.0	<50.0	<25.0	NA	<25.0
FLUME VAULT WEST	4-10	06/23/16	NA	NA	NA	<25.0	NA	<25.0	<25.0	<25.0	<67.0	<46.4	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	NA	<25.0	<25.0	<25.0	<50.0	<25.0	NA	<25.0
FLUME VAULT EAST	0-4	06/23/16	NA	NA	NA	<25.0	NA	<25.0	<25.0	<25.0	<67.0	<46.4	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	NA	<25.0	<25.0	<25.0	<50.0	<25.0	NA	<25.0
FLUME VAULT EAST	4-10	06/23/16	NA	NA	NA	<25.0	NA	<25.0	<25.0	<25.0	<67.0	<46.4	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	NA	<25.0	<25.0	<25.0	<50.0	<25.0	NA	<25.0
FLUME WELL	0-4	06/23/16	NA	NA	NA	<0.50	NA	0.5	<2.2	<0.50	<0.37	<2.5	<0.50	<0.50	<0.24	<0.17	<0.41	0.36	<0.26	NA	<0.50	<2.1	<0.50	<1.0	<0.23	NA	<0.50

Table 4.2A (Triad, 1998)















**TABLE 4**  
**SOIL ANALYTICAL RESULTS**  
**VOCs**  
 Former Trent Tube Plant No. 1  
 2188 Church Street  
 East Troy, Wisconsin

Sample Name	Sample Depth (ft)	Sample Date	Styrene	1,1,2,2-Tetrachloroethane	Tetrachloroethene	Toluene	TPH (mg/kg)	1,2,3-Trichlorobenzene	1,2,4-Trichlorobenzene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	Vinyl acetate	Vinyl chloride	o-Xylene	Total Xylene
<b>RCL Non-Industrial DC (ug/kg)</b>			8.67E+05	8.10E+02	33000	8.18E+05	NA	6.26E+04	2.40E+04	6.40E+05	1.59E+03	1300	2.19E+05	1.82E+05	NA	66.80	4.34E+05	1.21E+06
<b>RCL Industrial DC (ug/kg)</b>			8.67E+05	3.60E+03	145000	8.18E+05	NA	9.34E+05	1.13E+05	6.40E+05	7.01E+03	8410	2.19E+05	1.82E+05	NA	2080	4.34E+05	1.21E+06
<b>Groundwater Pathway</b>			2.20E+02	1.56E-01	4.50	1.11E+03	NA	NA	4.08E+02	1.40E+02	3.24E+00	3.60	1.38E+03		NA	0.14	NA	3.96E+03
SB18-12	22-24	10/31/1995	NA	<5	<5	<5	NA	<5	<5	<5	<5	<5	<5	<5	NA	<5	<5	<15
SB18-8	6-8	11/1/1995	NA	<5	<5	12	NA	<5	<5	7.2	<5	440 J	160	34	NA	<5	15	33
SB18-8	14-18	10/31/1995	NA	<5	<5	<5	NA	<5	<5	<5	<5	<5	<5	<5	NA	<5	<5	<15
SB19	0-2	10/18/1995	NA	<6.8	<6.6	<6.6	NA	<6.8	<6.8	<8.6	<6.6	<6.6	<6.6	<6.8	NA	<6.8	<6.6	<19.5
SB19	2-4	10/18/1995	NA	<5	<5	<5	NA	<5	<5	<5	<5	<5	<5	<5	NA	<5	<5	<15
SB20-02	2-4	11/2/1995	NA	<5	<5	14	NA	<5	<5	<5	<5	90	15	11	NA	260	7.5	20.5
SB20-05	8-10	11/2/1995	NA	<5	<5	<5	NA	<5	<5	<5	<5	<5	<5	<5	NA	<5	<5	<15
GP-09	0-4	06/23/16	<25.0	<25.0	<25.0	<25.0	NA	<25.0	<47.6	<25.0	<25.0	<25.0	<25.0	<25.0	NA	<25.0	<25.0	NA
GP-09	4-10	06/23/16	<25.0	<25.0	<25.0	<25.0	NA	<25.0	<47.6	<25.0	<25.0	<25.0	<25.0	<25.0	NA	<25.0	<25.0	NA
MW-16 AREA W. POINT	0-4	06/23/16	<25.0	<25.0	<25.0	<25.0	NA	<25.0	<47.6	161	<25.0	105	<25.0	<25.0	NA	<25.0	<25.0	NA
MW-16 AREA W. POINT	4-10	06/23/16	<25.0	<25.0	<25.0	<25.0	NA	<25.0	<47.6	544	<25.0	471	<25.0	<25.0	NA	<25.0	<25.0	NA
MW-16 AREA RW-08	0-4	06/23/16	<25.0	<25.0	<25.0	<25.0	NA	<25.0	<47.6	<25.0	<25.0	<25.0	<25.0	<25.0	NA	<25.0	<25.0	NA
MW-16 AREA RW-08	4-10	06/23/16	<25.0	<25.0	<25.0	<25.0	NA	<25.0	<47.6	70.3	<25.0	65.3	<25.0	<25.0	NA	<25.0	<25.0	NA
FLUME VAULT WEST	0-4	06/23/16	<25.0	<25.0	<25.0	<25.0	NA	<25.0	<47.6	<25.0	<25.0	90.8	<25.0	<25.0	NA	<25.0	<25.0	NA
FLUME VAULT WEST	4-10	06/23/16	<25.0	<25.0	<25.0	<25.0	NA	<25.0	<47.6	56.0	<25.0	196	<25.0	<25.0	NA	<25.0	<25.0	NA
FLUME VAULT EAST	0-4	06/23/16	<25.0	<25.0	<25.0	<25.0	NA	<25.0	<47.6	<25.0	<25.0	<25.0	<25.0	<25.0	NA	<25.0	<25.0	NA
FLUME VAULT EAST	4-10	06/23/16	<25.0	<25.0	<25.0	<25.0	NA	<25.0	<47.6	<25.0	<25.0	103	<25.0	<25.0	NA	<25.0	<25.0	NA
FLUME WELL	0-4	06/23/16	<0.50	<0.25	<0.50	<0.50	NA	<2.1	<2.2	<0.50	<0.20	6.8	<0.50	<0.50	NA	<0.18	<0.50	NA















TABLE 4  
SOIL ANALYTICAL RESULTS  
PAHs  
Former Trent Tube Plant No. 1  
2188 Church Street  
East Troy, Wisconsin

Sample Name	Sample Depth (ft)	Sample Date	Gasoline Range Organics (mg/kg)	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(ghi)perylene	Benzo(k)fluoranthene	bis(2-Ethylhexyl) phthalate	Butyl benzyl phthalate	Chrysene	Dibenzo(a,h)anthracene	Dibenzofuran	Di-n-butyl phthalate	di-n-Octyl phthalate	Fluoranthene	Fluorene	Indeno (1,2,3-cd)pyrene	2-Methylnaphthalene	Naphthalene (8310/8270)	Phenanthrene	Pyrene	
Table 4.2B (Triad, 1998)																										
RCL Non-Industrial DC (ug/kg)			NA	3.59E+06	NA	1.79E+07	1.14E+03	1.15E+02	1.15E+03	NA	1.15E+04	3.88E+04	2.86E+05	1.15E+05	1.15E+02	7.30E+04	NA	6.32E+05	2.39E+06	2.39E+06	1.15E+03	2.39E+05	5.52E+03	NA	1.79E+06	
RCL Industrial DC (ug/kg)			NA	4.52E+07	NA	1.00E+08	2.08E+04	2.11E+03	2.11E+04	NA	2.11E+05	1.64E+05	1.21E+06	2.11E+06	2.11E+03	1.04E+06	NA	8.21E+06	3.01E+07	3.01E+07	2.11E+04	3.01E+06	2.41E+04	NA	2.26E+07	
Groundwater Pathway			NA	NA	NA	1.97E+05	NA	4.70E+02	4.79E+02	NA	NA	NA	NA	1.45E+02	NA	NA	NA	NA	8.89E+04	1.48E+04	NA	NA	6.58E+02	NA	5.45E+04	
SB18-8	14-18	10/31/1995	<10	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SB19	0-2	10/18/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SB19	2-4	10/18/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SB20-02	2-4	11/2/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
SB20-05	8-10	11/2/1995	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
GP-09	0-4	06/23/16	NA	<48.8	<43.6	<50.6	71.1	71.3	100	<37.1	<54.0	NA	NA	83.6	<35.8	NA	NA	NA	71.2	<48.8	<37.0	<48.8	<40.0	<48.8	77.3	
GP-09	4-10	06/23/16	NA	<90.0	<80.5	<93.3	<62.4	<64.3	<90.0	<68.5	<99.6	NA	NA	118	<66.0	NA	NA	NA	<90.0	<90.0	<68.4	<90.0	<40.0	<90.0	<90.0	
MW-16 AREA W. POINT	0-4	06/23/16	NA	<9.2	<8.2	<9.5	<6.4	<6.6	<9.2	<7.0	<10.2	NA	NA	<8.5	<6.7	NA	NA	NA	11.4	<9.2	<7.0	<9.2	<40.0	<9.2	<9.2	
MW-16 AREA RW-08	0-4	06/23/16	NA	<8.6	<7.7	<8.9	<6.0	<6.2	<8.6	<6.6	<9.5	NA	NA	<8.0	<6.3	NA	NA	NA	<8.6	<8.6	<6.5	<8.6	<40.0	<8.6	<8.6	
FLUME VAULT WEST	0-4	06/23/16	NA	<9.8	<8.8	<10.1	<6.8	<7.0	<9.8	<7.5	<10.8	NA	NA	<9.0	<7.2	NA	NA	NA	<9.8	<9.8	<7.4	<9.8	<40.0	<9.8	<9.8	
FLUME VAULT EAST	0-4	06/23/16	NA	<8.8	<7.9	<9.2	24.8	28.7	36.4	16.4	18.9	NA	NA	28.7	<6.5	NA	NA	NA	26.7	<8.8	14.4	<8.8	<40.0	<8.8	25.7	







TABLE 4  
SOIL ANALYTICAL RESULTS  
INORGANICS  
Former Trent Tube Plant No. 1  
2188 Church Street  
East Troy, Wisconsin

Table with 20 columns: Sample Name, Sample Depth (ft), Arsenic, Barium, Beryllium, Cadmium, Chromium, Chromium-hexavalent, Cobalt, Copper, Iron, Lead, Manganese, Mercury, Molybdenum, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc. Rows include background thresholds (8000 ug/kg), RCL Non-Industrial DC (677 ug/kg), RCL Industrial DC (3000 ug/kg), Groundwater Pathway (584 ug/kg), and individual sample data for HP-74 to HP-79, HSA-1 to HSA-10, MET127/ET559 (S1) to MET134/ET568 (S8), MW4-02 to MW4-25, MW5-01 to MW5-05, MW6-05, MW6A-03 to MW6A-18, MW7, and MW8.





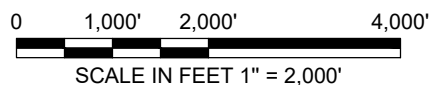
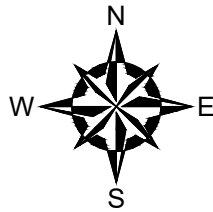
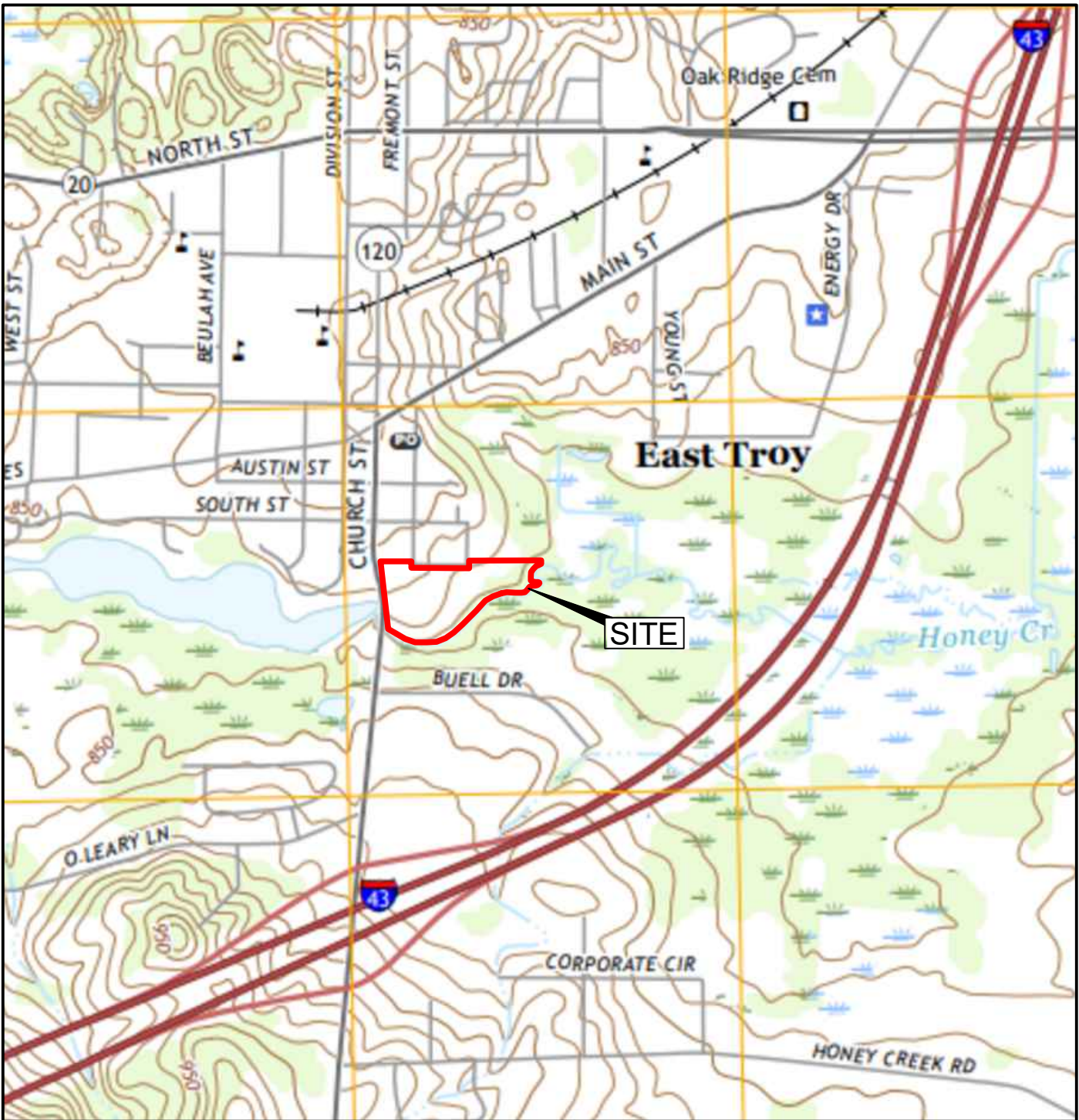


**TABLE 4**  
**SOIL ANALYTICAL RESULTS**  
**INORGANICS**  
 Former Trent Tube Plant No. 1  
 2188 Church Street  
 East Troy, Wisconsin

Sample Name	Sample Depth (ft)	Arsenic	Barium	Beryllium	Cadmium	Chromium	Chromium, hexavalent	Cobalt	Copper	Iron	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
<b>Background Theshold (ug/kg)</b>		<b>8000</b>																		
<b>RCL Non-Industrial DC (ug/kg)</b>		<b>677</b>	<b>1.53E+07</b>	<b>1.56E+05</b>	<b>7.11E+04</b>	<b>1.00E+08</b>	<b>3.01E+02</b>	<b>2.34E+04</b>	<b>3.13E+06</b>	<b>5.48E+07</b>	<b>4.00E+05</b>	<b>1.83E+06</b>	<b>3.13E+03</b>	<b>3.91E+05</b>	<b>1.55E+06</b>	<b>3.91E+05</b>	<b>3.91E+05</b>	<b>NA</b>	<b>3.93E+05</b>	<b>2.35E+07</b>
<b>RCL Industrial DC (ug/kg)</b>		<b>3000</b>	<b>1.00E+08</b>	<b>2.30E+06</b>	<b>9.85E+05</b>	<b>1.00E+08</b>	<b>6.36E+03</b>	<b>3.47E+05</b>	<b>4.67E+07</b>	<b>1.00E+08</b>	<b>8.00E+05</b>	<b>2.59E+07</b>	<b>3.13E+03</b>	<b>5.84E+06</b>	<b>2.25E+07</b>	<b>5.84E+06</b>	<b>5.84E+06</b>	<b>NA</b>	<b>5.84E+06</b>	<b>1.00E+08</b>
<b>Groundwater Pathway</b>		<b>584</b>	<b>1.65E+05</b>	<b>6.32E+03</b>	<b>752.00</b>	<b>3.60E+08</b>		<b>3.61E+03</b>	<b>9.16E+04</b>	<b>NA</b>	<b>2.70E+04</b>	<b>3.91E+04</b>	<b>2.08E+02</b>	<b>1.62E+03</b>	<b>1.31E+04</b>	<b>5.20E+02</b>	<b>8.49E+02</b>	<b>NA</b>	<b>6.00E+04</b>	<b>NA</b>
SB18-01	0-2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB18-02	2-4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB18-03	4-6	5800	26000	NA	<0.5	210000	NA	NA	NA	NA	37000	NA	<0.1	NA	NA	<0.5	<1	NA	NA	NA
SB18-10	18-20	630	12000	NA	<400	34000	NA	NA	NA	NA	19000	NA	<100	NA	NA	<500	<600	NA	NA	NA
SB18-12	22-24	4900	19000	NA	<400	5800	NA	NA	NA	NA	20000	NA	<100	NA	NA	<500	<500	NA	NA	NA
SB18-8	6-8	3000	54000	NA	<400	2680000	NA	NA	NA	NA	72000	NA	330	NA	NA	<500	720	NA	NA	NA
SB18-8	14-18	7100	8900	NA	<400	17000	NA	NA	NA	NA	11000	NA	<100	NA	NA	<500	<500	NA	NA	NA
SB19	0-2	64000	196000	NA	<0.5	11300000	NA	NA	NA	NA	47000	NA	<0.1	NA	NA	<0.5	<1	NA	NA	NA
SB19	2-4	3100	9100	NA	<400	94000	NA	NA	NA	NA	<500	NA	<100	NA	NA	<500	<500	NA	NA	NA
SB20-02	2-4	3800	41000	NA	<400	19000	NA	NA	NA	NA	23000	NA	1500	NA	NA	<500	<500	NA	NA	NA
SB20-05	8-10	2300	11000	NA	<400	3700	NA	NA	NA	NA	670	NA	<100	NA	NA	<500	<500	NA	NA	NA



## FIGURES



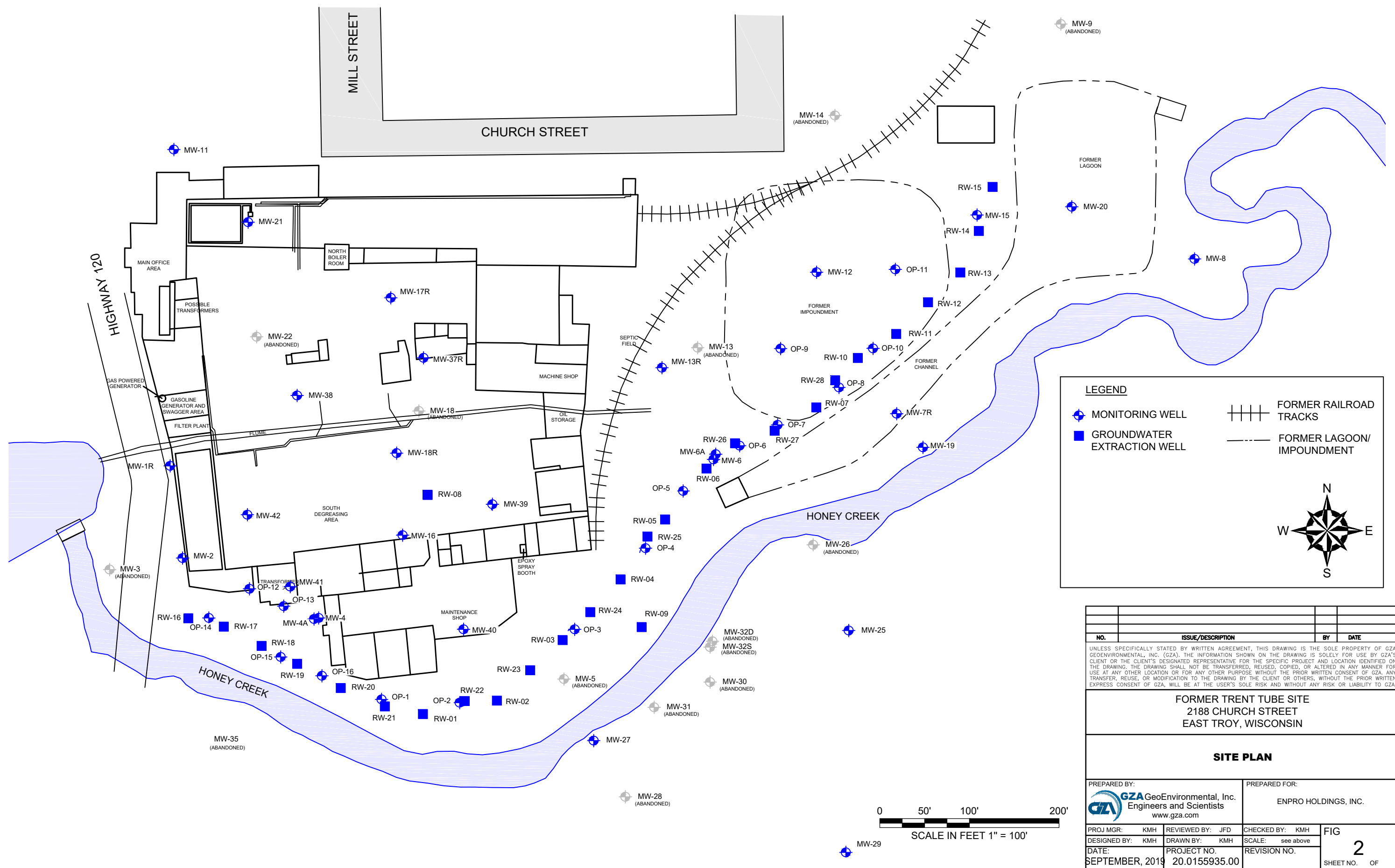
USGS 7.5 Quadrangle Map, East Troy, WI, 2018

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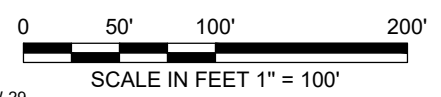
FORMER KURTH MALT PROPERTY 318-338 SOUTH WATER STREET MILWAUKEE, WISCONSIN	PREPARED BY: <b>GZA GeoEnvironmental, Inc.</b> Engineers and Scientists www.gza.com	PREPARED FOR: FIFTH WARD HOLDINGS LLC MILWAUKEE, WI
<b>SITE LOCATION MAP</b>	PROJ MGR: KMH    REVIEWED BY: KMH    CHECKED BY: KMH DESIGNED BY: KMH    DRAWN BY: KMH    SCALE: 1" = 2,000' DATE: 9/10/2019    PROJECT NO. 20.0155935.01    REVISION NO.	<b>FIGURE 1</b> SHEET NO. 1 OF 1

©2018 - GZA GeoEnvironmental, Inc. GZA-J:\155900T0155999\155935 TRENT TUBE\WORK\WPDES-EXEMPTION\FIGURES\CAD\BASE MAP-EXEMP.DWG F2- SITE PLAN SEPTEMBER 5, 2019 KEVIN HEDINGER



**LEGEND**

- MONITORING WELL
- GROUNDWATER EXTRACTION WELL
- FORMER RAILROAD TRACKS
- FORMER LAGOON/IMPOUNDMENT



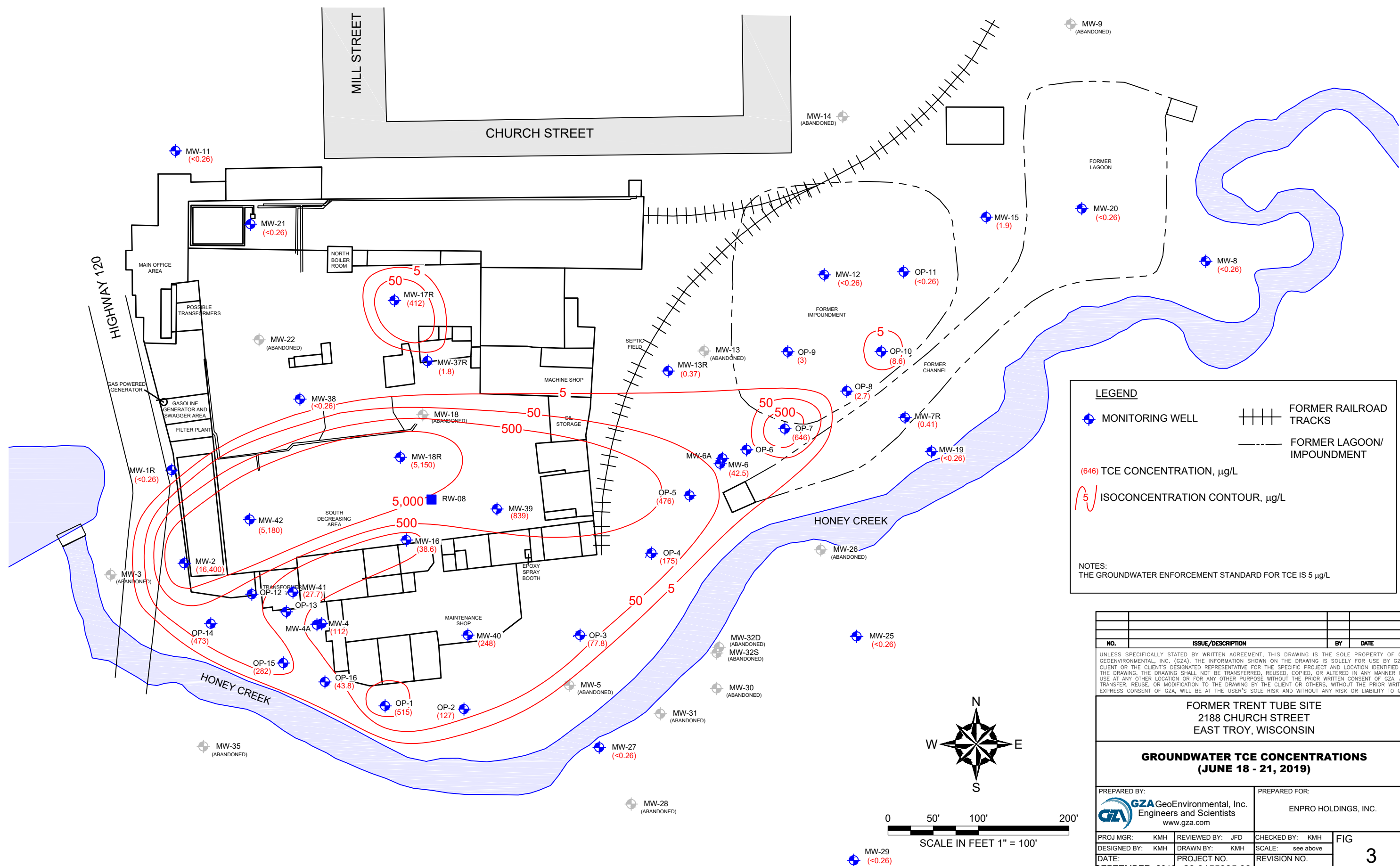
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**FORMER TRENT TUBE SITE**  
 2188 CHURCH STREET  
 EAST TROY, WISCONSIN

**SITE PLAN**

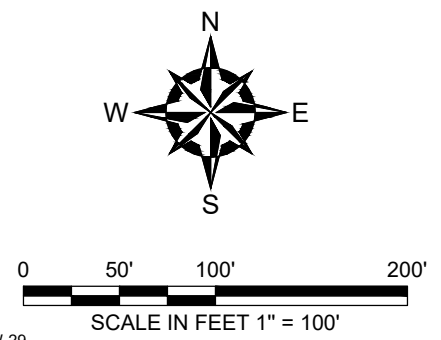
PREPARED BY: GZA GeoEnvironmental, Inc. Engineers and Scientists www.gza.com		PREPARED FOR: ENPRO HOLDINGS, INC.	
PROJ MGR: KMH DESIGNED BY: KMH DATE: SEPTEMBER, 2019	REVIEWED BY: JFD DRAWN BY: KMH PROJECT NO. 20.0155935.00	CHECKED BY: KMH SCALE: see above REVISION NO.	FIG <b>2</b> SHEET NO. OF



**LEGEND**

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

**NOTES:**  
THE GROUNDWATER ENFORCEMENT STANDARD FOR TCE IS 5 µg/L



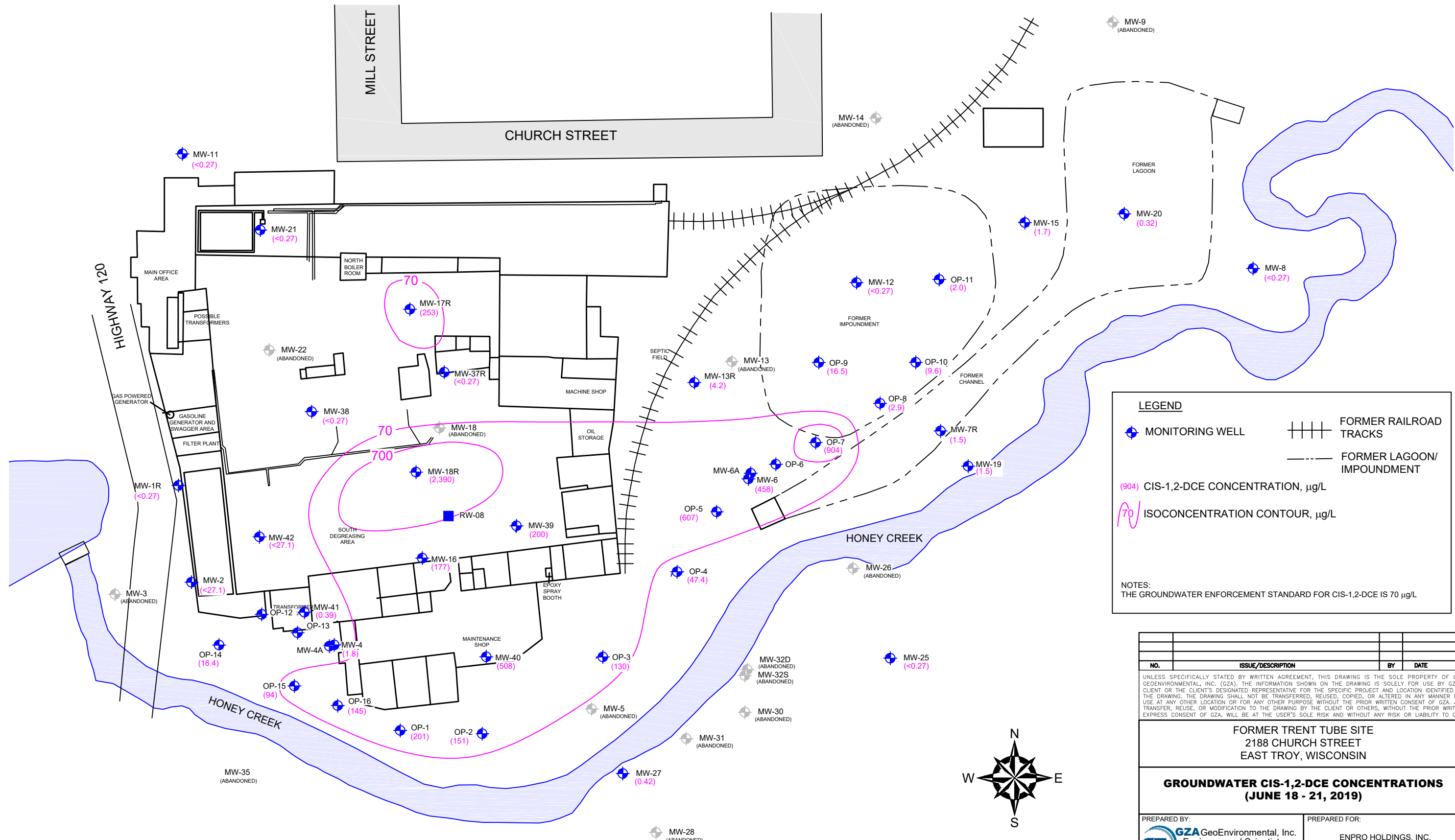
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**FORMER TRENT TUBE SITE**  
2188 CHURCH STREET  
EAST TROY, WISCONSIN

**GROUNDWATER TCE CONCENTRATIONS**  
**(JUNE 18 - 21, 2019)**

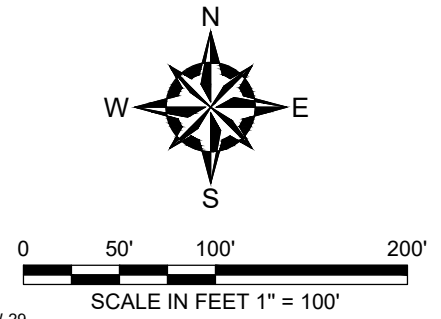
PREPARED BY: <b>GZA</b> GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR: ENPRO HOLDINGS, INC.		
PROJ MGR: KMH	REVIEWED BY: JFD	CHECKED BY: KMH	FIG
DESIGNED BY: KMH	DRAWN BY: KMH	SCALE: see above	<b>3</b>
DATE: SEPTEMBER, 2019	PROJECT NO. 20.0155935.00	REVISION NO.	



**LEGEND**

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

**NOTES:**  
THE GROUNDWATER ENFORCEMENT STANDARD FOR CIS-1,2-DCE IS 70 µg/L



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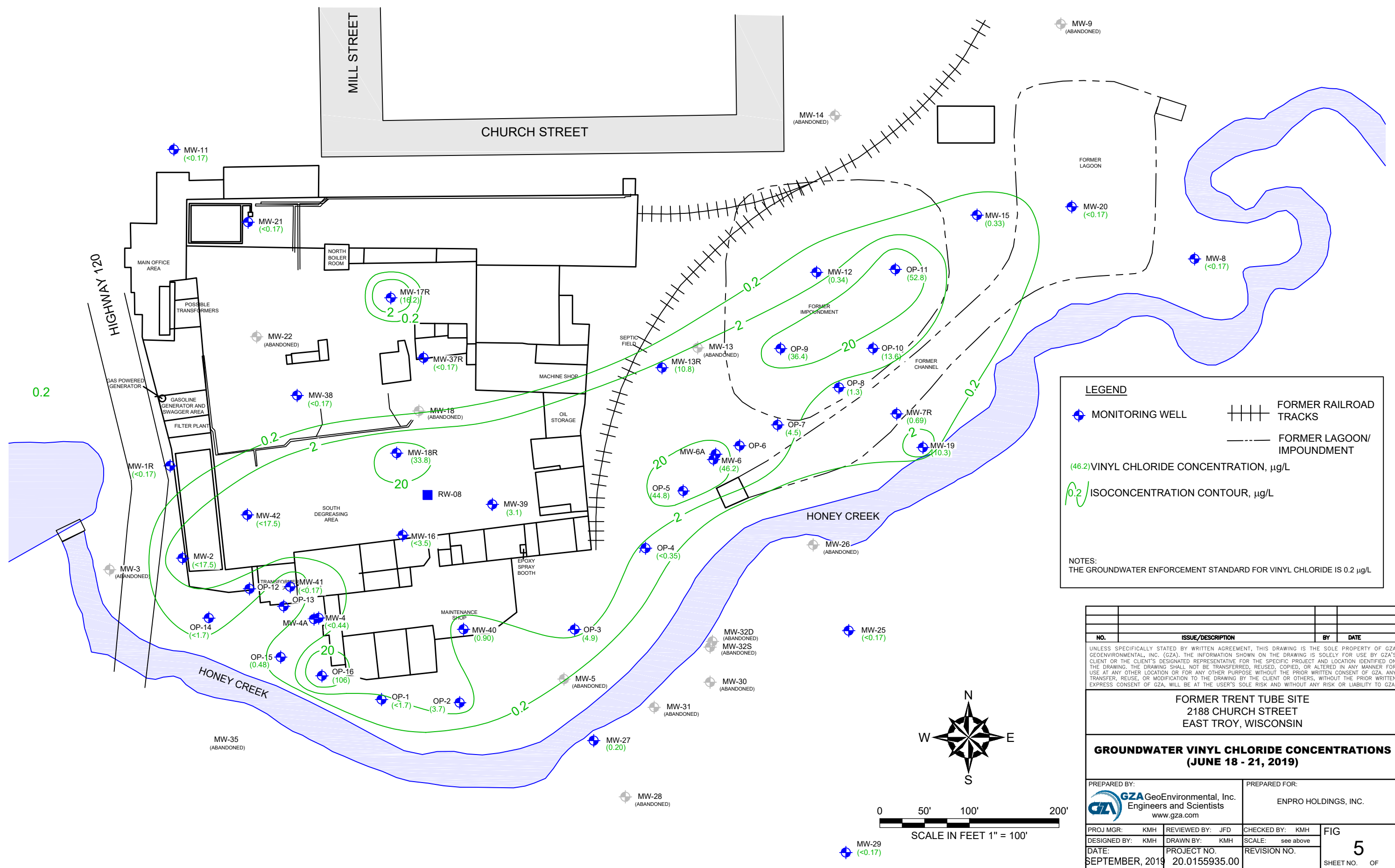
**GROUNDWATER CIS-1,2-DCE CONCENTRATIONS**  
(JUNE 18 - 21, 2019)

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

PREPARED FOR:  
ENPRO HOLDINGS, INC.

PROJ MGR: KMH	REVIEWED BY: JFD	CHECKED BY: KMH	FIG
DESIGNED BY: KMH	DRAWN BY: KMH	SCALE: see above	4
DATE: SEPTEMBER, 2019	PROJECT NO. 20.0155935.00	REVISION NO.	

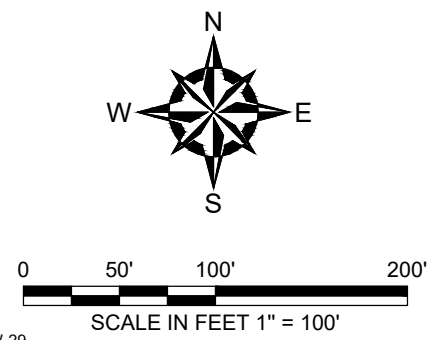
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**LEGEND**

- MONITORING WELL
- FORMER RAILROAD TRACKS
- FORMER LAGOON/IMPOUNDMENT
- (46.2) VINYL CHLORIDE CONCENTRATION, µg/L
- 0.2 ISOCONCENTRATION CONTOUR, µg/L

**NOTES:**  
THE GROUNDWATER ENFORCEMENT STANDARD FOR VINYL CHLORIDE IS 0.2 µg/L



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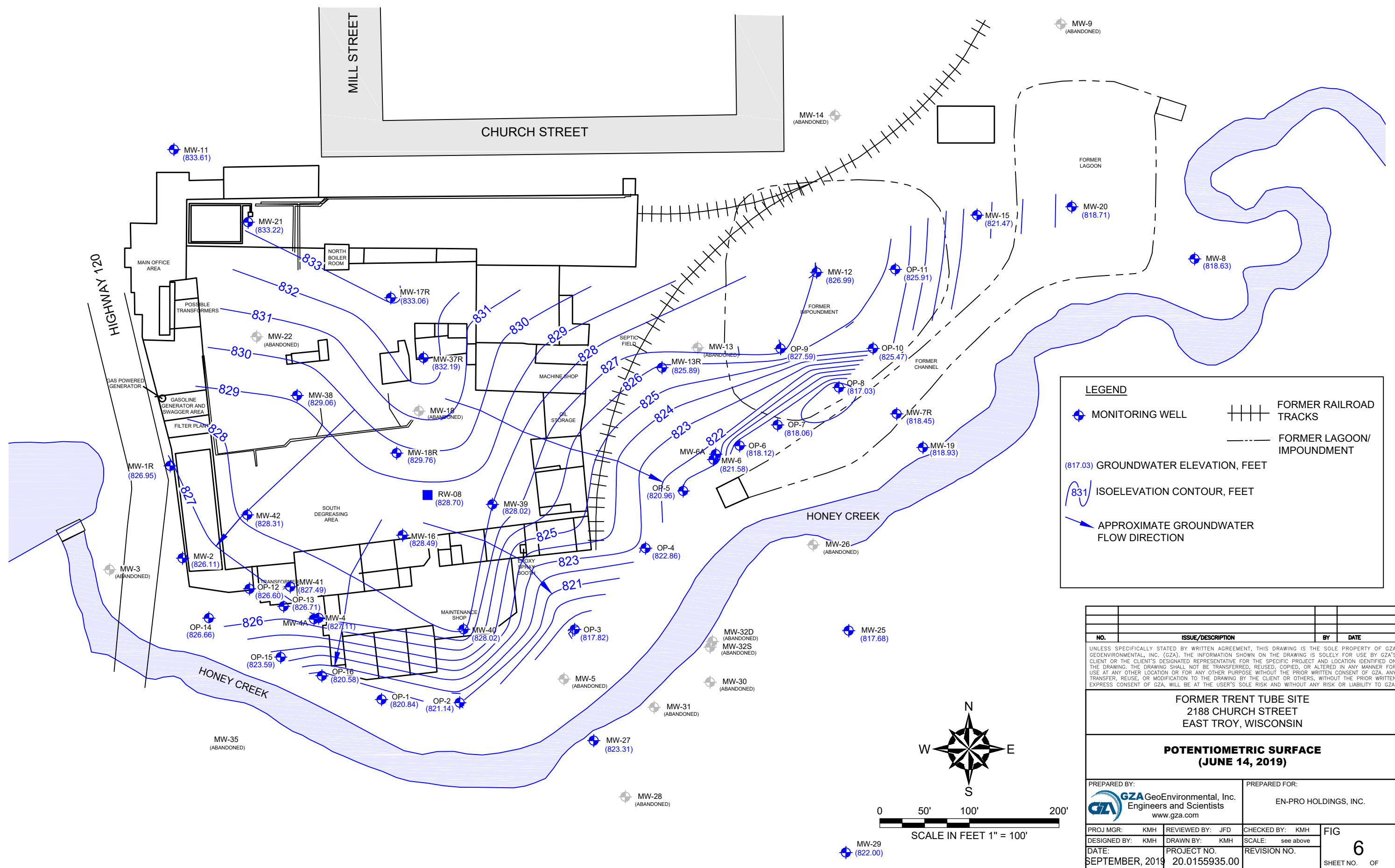
**FORMER TRENT TUBE SITE**  
2188 CHURCH STREET  
EAST TROY, WISCONSIN

**GROUNDWATER VINYL CHLORIDE CONCENTRATIONS**  
(JUNE 18 - 21, 2019)

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

PROJ MGR: KMH	REVIEWED BY: JFD	CHECKED BY: KMH	FIG
DESIGNED BY: KMH	DRAWN BY: KMH	SCALE: see above	5
DATE: SEPTEMBER, 2019	PROJECT NO. 20.0155935.00	REVISION NO.	





**LEGEND**

- MONITORING WELL
- FORMER RAILROAD TRACKS
- FORMER LAGOON/IMPOUNDMENT
- (817.03) GROUNDWATER ELEVATION, FEET
- 831 ISOELEVATION CONTOUR, FEET
- APPROXIMATE GROUNDWATER FLOW DIRECTION

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.

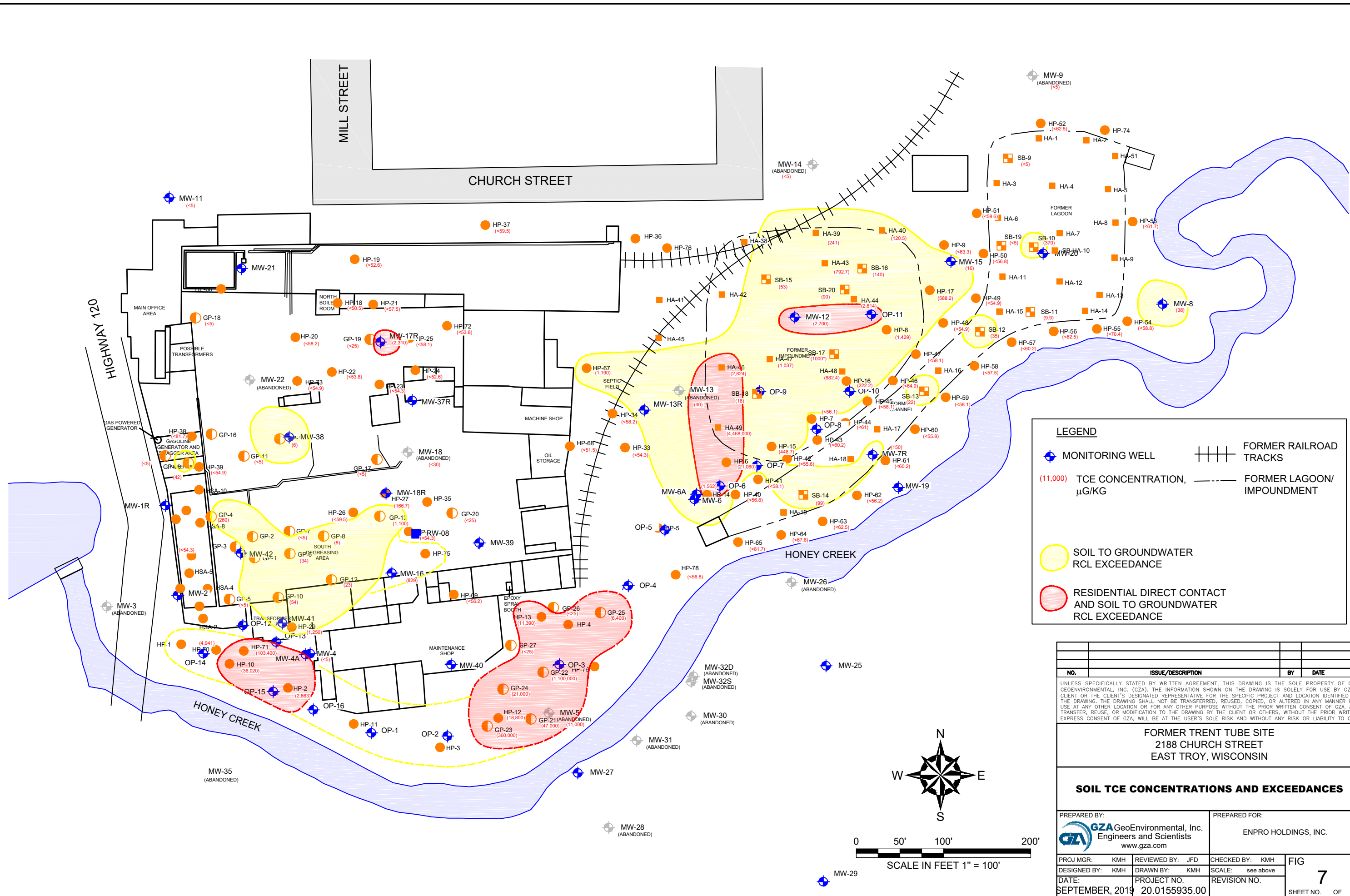
**FORMER TRENT TUBE SITE**  
 2188 CHURCH STREET  
 EAST TROY, WISCONSIN

**POTENTIOMETRIC SURFACE**  
 (JUNE 14, 2019)

PREPARED BY: <b>GZA GeoEnvironmental, Inc.</b> Engineers and Scientists www.gza.com	PREPARED FOR: EN-PRO HOLDINGS, INC.
--	--

PROJ MGR: KMH	REVIEWED BY: JFD	CHECKED BY: KMH	FIG
DESIGNED BY: KMH	DRAWN BY: KMH	SCALE: see above	6
DATE: SEPTEMBER, 2019	PROJECT NO. 20.0155935.00	REVISION NO.	

SCALE IN FEET 1" = 100'



**LEGEND**

- MONITORING WELL
- FORMER RAILROAD TRACKS
- (11,000) TCE CONCENTRATION,  $\mu\text{G}/\text{KG}$
- FORMER LAGOON/IMPOUNDMENT
- SOIL TO GROUNDWATER RCL EXCEEDANCE
- RESIDENTIAL DIRECT CONTACT AND SOIL TO GROUNDWATER RCL EXCEEDANCE

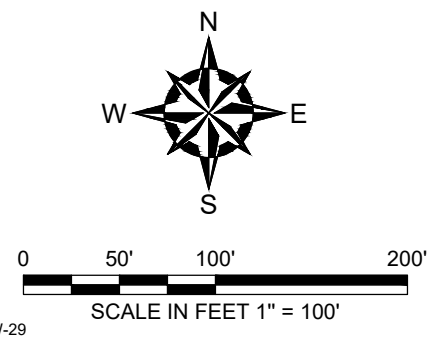
NO.	ISSUE/DESCRIPTION	BY	DATE

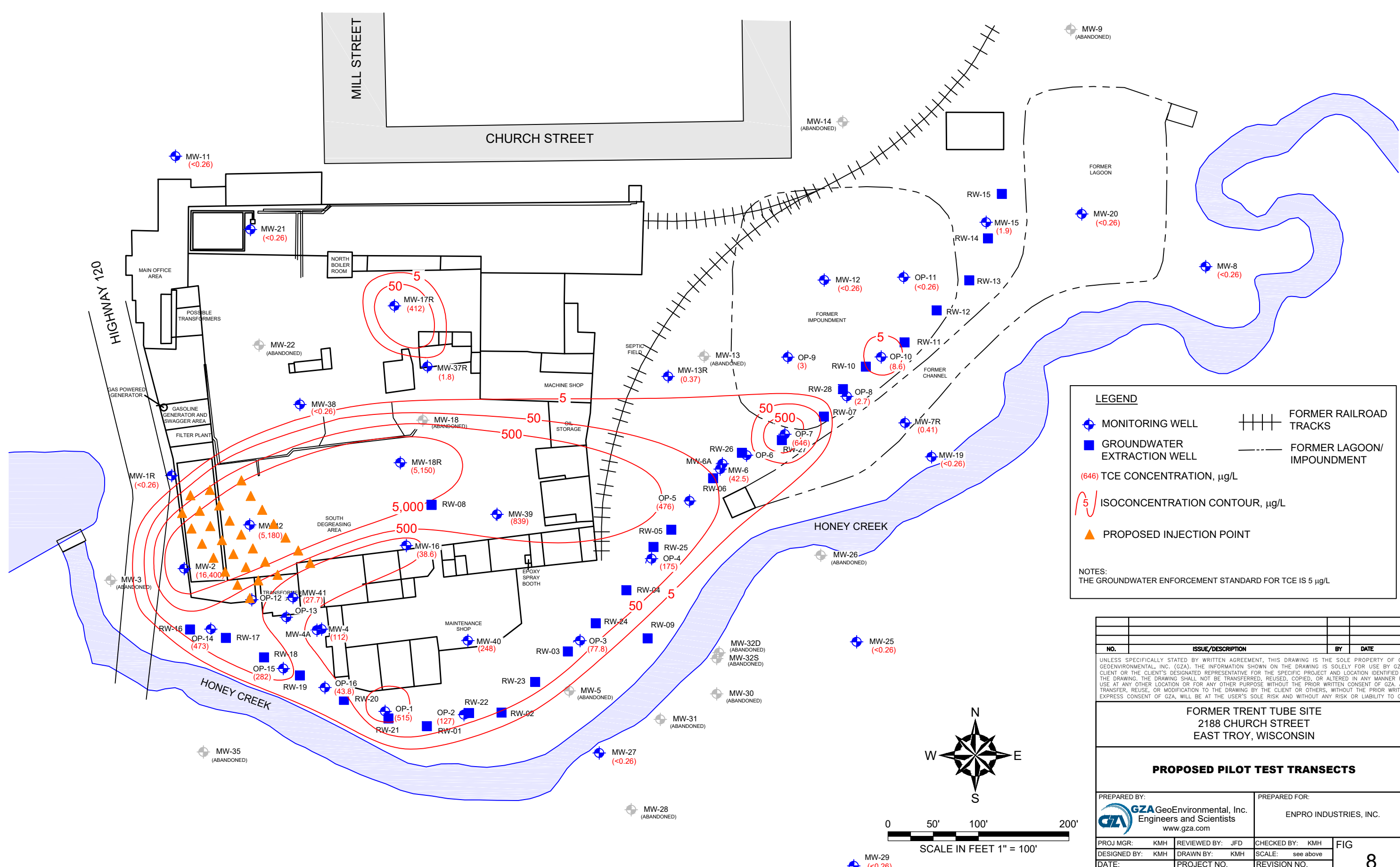
UNLESS SPECIFICALLY STATED BY WRITTEN AGREEMENT, THIS DRAWING IS THE SOLE PROPERTY OF GZA GEOENVIRONMENTAL, INC. (GZA). THE INFORMATION SHOWN ON THE DRAWING IS SOLELY FOR USE BY GZA'S CLIENT OR THE CLIENT'S DESIGNATED REPRESENTATIVE FOR THE SPECIFIC PROJECT AND LOCATION IDENTIFIED ON THE DRAWING. THE 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

**SOIL TCE CONCENTRATIONS AND EXCEEDANCES**

PREPARED BY: <b>GZA</b> GeoEnvironmental, Inc. Engineers and Scientists www.gza.com	PREPARED FOR: ENPRO HOLDINGS, INC.		
PROJ MGR: KMH	REVIEWED BY: JFD	CHECKED BY: KMH	FIG
DESIGNED BY: KMH	DRAWN BY: KMH	SCALE: see above	7
DATE: SEPTEMBER, 2019	PROJECT NO. 20.0155935.00	REVISION NO.	





**LEGEND**

- ◆ MONITORING WELL
- GROUNDWATER EXTRACTION WELL
- (646) TCE CONCENTRATION, µg/L
- 5 ISOCONCENTRATION CONTOUR, µg/L
- ▲ PROPOSED INJECTION POINT
- FORMER RAILROAD TRACKS
- FORMER LAGOON/IMPOUNDMENT

NOTES:  
THE GROUNDWATER ENFORCEMENT STANDARD FOR TCE IS 5 µg/L

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

**PROPOSED PILOT TEST TRANSECTS**

PREPARED BY: <b>GZA GeoEnvironmental, Inc.</b> Engineers and Scientists www.gza.com		PREPARED FOR: ENPRO INDUSTRIES, INC.	
PROJ MGR: KMH	REVIEWED BY: JFD	CHECKED BY: KMH	FIG
DESIGNED BY: KMH	DRAWN BY: KMH	SCALE: see above	<b>8</b>
DATE: SEPTEMBER, 2019	PROJECT NO. 20.0155935.00	REVISION NO.	



**ATTACHMENT 1**  
**Limitations**



## **GEOHYDROLOGICAL 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 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 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.
5. Water level readings have been made in test holes (as described in the report) 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. GZA 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 are 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, GZA relied on the laboratory's quality assurance (QA)/quality control (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. If Client or others authorized to use this report obtain 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, based on 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 if conditions are other than anticipated;
  - iii) provide modifications to our design; and
  - iv) assess the consequences of changes in technologies and/or regulations.



**ATTACHMENT 2**  
**Groundwater Laboratory Analytical Reports**

June 27, 2019

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

RE: Project: 20.0155935.01 TRENT TUBE  
Pace Project No.: 40189699

Dear Kevin Hedinger:

Enclosed are the analytical results for sample(s) received by the laboratory on June 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

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.



## CERTIFICATIONS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189699

---

### 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

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189699

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40189699001	MW-13R	Water	06/18/19 08:30	06/19/19 09:45
40189699002	OP-9	Water	06/18/19 08:35	06/19/19 09:45
40189699003	MW-12	Water	06/18/19 09:29	06/19/19 09:45
40189699004	OP-11	Water	06/18/19 10:15	06/19/19 09:45
40189699005	MW-15	Water	06/18/19 10:56	06/19/19 09:45
40189699006	MW-20	Water	06/18/19 12:36	06/19/19 09:45
40189699007	MW-8	Water	06/18/19 13:28	06/19/19 09:45
40189699008	MW-7R	Water	06/18/19 14:26	06/19/19 09:45
40189699009	RW-15	Water	06/18/19 11:54	06/19/19 09:45
40189699010	DUP-1	Water	06/18/19 14:35	06/19/19 09:45
40189699011	MW-37R	Water	06/18/19 14:28	06/19/19 09:45
40189699012	MW-17R	Water	06/18/19 15:56	06/19/19 09:45
40189699013	MW-16	Water	06/18/19 12:15	06/19/19 09:45
40189699014	DUP-2	Water	06/18/19 00:00	06/19/19 09:45
40189699015	MW-40	Water	06/18/19 10:59	06/19/19 09:45
40189699016	MW-18R	Water	06/18/19 13:50	06/19/19 09:45
40189699017	MW-39	Water	06/18/19 10:20	06/19/19 09:45
40189699018	TRIP-1	Water	06/18/19 00:00	06/19/19 09:45
40189699019	TRIP-2	Water	06/18/19 00:00	06/19/19 09:45

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189699

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40189699001	MW-13R	EPA 8260	HNW	64	PASI-G
40189699002	OP-9	EPA 8015B Modified	ALD	2	PASI-G
		EPA 6010	TXW	2	PASI-G
		EPA 8260	HNW	64	PASI-G
		EPA 300.0	HMB	2	PASI-G
		EPA 310.2	DAW	1	PASI-G
40189699003	MW-12	EPA 8015B Modified	ALD	2	PASI-G
		EPA 6010	TXW	2	PASI-G
		EPA 8260	HNW	64	PASI-G
		EPA 300.0	HMB	2	PASI-G
		EPA 310.2	DAW	1	PASI-G
40189699004	OP-11	EPA 8260	HNW	64	PASI-G
40189699005	MW-15	EPA 8015B Modified	ALD	2	PASI-G
		EPA 6010	TXW	2	PASI-G
		EPA 8260	HNW	64	PASI-G
		EPA 300.0	HMB	2	PASI-G
		EPA 310.2	DAW	1	PASI-G
40189699006	MW-20	EPA 8015B Modified	ALD	2	PASI-G
		EPA 6010	TXW	2	PASI-G
		EPA 8260	HNW	64	PASI-G
		EPA 300.0	HMB	2	PASI-G
		EPA 310.2	DAW	1	PASI-G
40189699007	MW-8	EPA 8260	HNW	64	PASI-G
40189699008	MW-7R	EPA 8015B Modified	ALD	2	PASI-G
		EPA 6010	TXW	2	PASI-G
		EPA 8260	HNW	64	PASI-G
		EPA 300.0	HMB	2	PASI-G
		EPA 310.2	DAW	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40189699009	RW-15	EPA 8260	HNW	64	PASI-G
40189699010	DUP-1	EPA 8260	HNW	64	PASI-G
40189699011	MW-37R	EPA 8015B Modified	ALD	2	PASI-G
		EPA 6010	TXW	2	PASI-G
		EPA 8260	HNW	64	PASI-G
		EPA 300.0	HMB	2	PASI-G
		EPA 310.2	DAW	1	PASI-G
40189699012	MW-17R	EPA 8015B Modified	ALD	2	PASI-G

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189699

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6010	TXW	2	PASI-G
		EPA 8260	HNW	64	PASI-G
		EPA 300.0	HMB	2	PASI-G
		EPA 310.2	DAW	1	PASI-G
<b>40189699013</b>	<b>MW-16</b>	EPA 8015B Modified	ALD	2	PASI-G
		EPA 6010	TXW	2	PASI-G
		EPA 8260	HNW	64	PASI-G
		EPA 300.0	HMB	2	PASI-G
		EPA 310.2	DAW	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
<b>40189699014</b>	<b>DUP-2</b>	EPA 8260	HNW	64	PASI-G
<b>40189699015</b>	<b>MW-40</b>	EPA 8260	HNW, LAP	64	PASI-G
<b>40189699016</b>	<b>MW-18R</b>	EPA 8260	HNW, LAP	64	PASI-G
<b>40189699017</b>	<b>MW-39</b>	EPA 8260	HNW	64	PASI-G
<b>40189699018</b>	<b>TRIP-1</b>	EPA 8260	HNW	64	PASI-G
<b>40189699019</b>	<b>TRIP-2</b>	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.: 40189699

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>40189699001</b>	<b>MW-13R</b>					
EPA 8260	1,1-Dichloroethane	1.8	ug/L	1.0	06/20/19 17:15	
EPA 8260	Tetrachloroethene	1.4	ug/L	1.1	06/20/19 17:15	
EPA 8260	Trichloroethene	0.37J	ug/L	1.0	06/20/19 17:15	
EPA 8260	Vinyl chloride	10.8	ug/L	1.0	06/20/19 17:15	
EPA 8260	cis-1,2-Dichloroethene	4.2	ug/L	1.0	06/20/19 17:15	
EPA 8260	trans-1,2-Dichloroethene	1.3J	ug/L	3.6	06/20/19 17:15	
<b>40189699002</b>	<b>OP-9</b>					
EPA 8015B Modified	Ethane	2.9J	ug/L	5.6	06/20/19 08:58	
EPA 8015B Modified	Ethene	2.8J	ug/L	5.0	06/20/19 08:58	
EPA 6010	Iron, Dissolved	7020	ug/L	118	06/25/19 22:33	
EPA 6010	Manganese, Dissolved	2260	ug/L	5.0	06/25/19 22:33	
EPA 8260	1,1-Dichloroethane	0.73J	ug/L	1.0	06/20/19 12:17	
EPA 8260	1,1-Dichloroethene	0.93J	ug/L	1.0	06/20/19 12:17	
EPA 8260	Tetrachloroethene	2.0	ug/L	1.1	06/20/19 12:17	
EPA 8260	Trichloroethene	3.0	ug/L	1.0	06/20/19 12:17	
EPA 8260	Vinyl chloride	36.4	ug/L	1.0	06/20/19 12:17	
EPA 8260	cis-1,2-Dichloroethene	16.5	ug/L	1.0	06/20/19 12:17	
EPA 8260	trans-1,2-Dichloroethene	9.4	ug/L	3.6	06/20/19 12:17	
EPA 300.0	Sulfate	500	mg/L	30.0	06/20/19 11:26	
EPA 310.2	Alkalinity, Total as CaCO3	490	mg/L	47.0	06/21/19 10:11	
<b>40189699003</b>	<b>MW-12</b>					
EPA 8015B Modified	Ethane	15.4	ug/L	5.6	06/20/19 09:05	
EPA 8015B Modified	Ethene	1.4J	ug/L	5.0	06/20/19 09:05	
EPA 6010	Iron, Dissolved	18200	ug/L	118	06/25/19 22:40	
EPA 6010	Manganese, Dissolved	131	ug/L	5.0	06/25/19 22:40	
EPA 8260	Tetrachloroethene	0.63J	ug/L	1.1	06/20/19 15:44	
EPA 8260	Vinyl chloride	0.34J	ug/L	1.0	06/20/19 15:44	
EPA 310.2	Alkalinity, Total as CaCO3	540	mg/L	47.0	06/21/19 10:13	
<b>40189699004</b>	<b>OP-11</b>					
EPA 8260	1,1-Dichloroethane	1.2	ug/L	1.0	06/21/19 13:33	
EPA 8260	Benzene	0.46J	ug/L	1.0	06/21/19 13:33	
EPA 8260	Tetrachloroethene	0.99J	ug/L	1.1	06/21/19 13:33	
EPA 8260	Vinyl chloride	52.8	ug/L	1.0	06/21/19 13:33	
EPA 8260	cis-1,2-Dichloroethene	2.0	ug/L	1.0	06/21/19 13:33	
<b>40189699005</b>	<b>MW-15</b>					
EPA 8015B Modified	Ethane	1.3J	ug/L	5.0	06/20/19 09:12	
EPA 6010	Manganese, Dissolved	6.2	ug/L	5.0	06/25/19 22:42	
EPA 8260	1,1,1-Trichloroethane	32.4	ug/L	1.0	06/20/19 16:07	
EPA 8260	1,1-Dichloroethane	19.6	ug/L	1.0	06/20/19 16:07	
EPA 8260	Tetrachloroethene	0.73J	ug/L	1.1	06/20/19 16:07	
EPA 8260	Trichloroethene	1.9	ug/L	1.0	06/20/19 16:07	
EPA 8260	Vinyl chloride	0.33J	ug/L	1.0	06/20/19 16:07	
EPA 8260	cis-1,2-Dichloroethene	1.7	ug/L	1.0	06/20/19 16:07	
EPA 300.0	Sulfate	107	mg/L	15.0	06/20/19 11:39	
EPA 310.2	Alkalinity, Total as CaCO3	722	mg/L	47.0	06/21/19 10:14	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189699

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>40189699006</b>	<b>MW-20</b>					
EPA 6010	Iron, Dissolved	409	ug/L	118	06/25/19 22:45	
EPA 6010	Manganese, Dissolved	914	ug/L	5.0	06/25/19 22:45	
EPA 8260	Tetrachloroethene	0.43J	ug/L	1.1	06/20/19 16:30	
EPA 8260	cis-1,2-Dichloroethene	0.32J	ug/L	1.0	06/20/19 16:30	
EPA 300.0	Sulfate	35.1	mg/L	3.0	06/19/19 19:23	
EPA 310.2	Alkalinity, Total as CaCO3	482	mg/L	47.0	06/21/19 10:15	
<b>40189699007</b>	<b>MW-8</b>					
EPA 8260	Tetrachloroethene	0.55J	ug/L	1.1	06/20/19 17:38	
<b>40189699008</b>	<b>MW-7R</b>					
EPA 8015B Modified	Ethane	1.8J	ug/L	5.6	06/20/19 09:26	
EPA 6010	Iron, Dissolved	10300	ug/L	118	06/25/19 22:47	
EPA 6010	Manganese, Dissolved	689	ug/L	5.0	06/25/19 22:47	
EPA 8260	1,1-Dichloroethane	1.1	ug/L	1.0	06/20/19 16:52	
EPA 8260	Trichloroethene	0.41J	ug/L	1.0	06/20/19 16:52	
EPA 8260	Vinyl chloride	0.69J	ug/L	1.0	06/20/19 16:52	
EPA 8260	cis-1,2-Dichloroethene	1.5	ug/L	1.0	06/20/19 16:52	
EPA 300.0	Sulfate	52.2	mg/L	15.0	06/19/19 19:36	
EPA 310.2	Alkalinity, Total as CaCO3	570	mg/L	47.0	06/21/19 10:15	
SM 5310C	Total Organic Carbon	6.7	mg/L	5.0	06/21/19 13:01	
<b>40189699009</b>	<b>RW-15</b>					
EPA 8260	1,1-Dichloroethane	0.41J	ug/L	1.0	06/20/19 18:01	
EPA 8260	Tetrachloroethene	0.55J	ug/L	1.1	06/20/19 18:01	
EPA 8260	Trichloroethene	0.36J	ug/L	1.0	06/20/19 18:01	
EPA 8260	Vinyl chloride	0.40J	ug/L	1.0	06/20/19 18:01	
EPA 8260	cis-1,2-Dichloroethene	1.2	ug/L	1.0	06/20/19 18:01	
<b>40189699010</b>	<b>DUP-1</b>					
EPA 8260	1,1-Dichloroethane	1.4	ug/L	1.0	06/20/19 18:24	
EPA 8260	Tetrachloroethene	0.40J	ug/L	1.1	06/20/19 18:24	
EPA 8260	Trichloroethene	0.41J	ug/L	1.0	06/20/19 18:24	
EPA 8260	Vinyl chloride	0.56J	ug/L	1.0	06/20/19 18:24	
EPA 8260	cis-1,2-Dichloroethene	1.5	ug/L	1.0	06/20/19 18:24	
<b>40189699011</b>	<b>MW-37R</b>					
EPA 8260	Tetrachloroethene	0.65J	ug/L	1.1	06/20/19 18:47	
EPA 8260	Trichloroethene	1.8	ug/L	1.0	06/20/19 18:47	
EPA 300.0	Sulfate	13.0	mg/L	3.0	06/19/19 19:50	
EPA 310.2	Alkalinity, Total as CaCO3	178	mg/L	23.5	06/21/19 10:16	
<b>40189699012</b>	<b>MW-17R</b>					
EPA 8015B Modified	Ethene	0.97J	ug/L	5.0	06/20/19 10:05	
EPA 8260	Trichloroethene	412	ug/L	10.0	06/20/19 13:03	
EPA 8260	Vinyl chloride	16.2	ug/L	10.0	06/20/19 13:03	
EPA 8260	cis-1,2-Dichloroethene	253	ug/L	10.0	06/20/19 13:03	
EPA 8260	trans-1,2-Dichloroethene	13.4J	ug/L	36.4	06/20/19 13:03	
EPA 300.0	Sulfate	169	mg/L	30.0	06/20/19 11:52	
EPA 310.2	Alkalinity, Total as CaCO3	156	mg/L	47.0	06/21/19 10:16	M0

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: 20.0155935.01 TRENT TUBE  
Pace Project No.: 40189699

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>40189699013</b>	<b>MW-16</b>					
EPA 6010	Iron, Dissolved	281	ug/L	118	06/25/19 22:55	
EPA 6010	Manganese, Dissolved	42.4	ug/L	5.0	06/25/19 22:55	
EPA 8260	1,1,1-Trichloroethane	953	ug/L	20.0	06/20/19 13:26	
EPA 8260	1,1-Dichloroethane	80.1	ug/L	20.0	06/20/19 13:26	
EPA 8260	1,1-Dichloroethene	9.0J	ug/L	20.0	06/20/19 13:26	
EPA 8260	Trichloroethene	38.6	ug/L	20.0	06/20/19 13:26	
EPA 8260	cis-1,2-Dichloroethene	177	ug/L	20.0	06/20/19 13:26	
EPA 300.0	Sulfate	45.1	mg/L	15.0	06/20/19 10:46	
EPA 310.2	Alkalinity, Total as CaCO3	426	mg/L	47.0	06/21/19 10:18	
SM 5310C	Total Organic Carbon	3.0	mg/L	1.7	06/21/19 14:04	
<b>40189699014</b>	<b>DUP-2</b>					
EPA 8260	1,1-Dichloroethane	1.5J	ug/L	2.0	06/20/19 13:49	
EPA 8260	1,1-Dichloroethene	1.0J	ug/L	2.0	06/20/19 13:49	
EPA 8260	Tetrachloroethene	1.9J	ug/L	2.2	06/20/19 13:49	
EPA 8260	Trichloroethene	491	ug/L	2.0	06/20/19 13:49	
EPA 8260	Vinyl chloride	13.6	ug/L	2.0	06/20/19 13:49	
EPA 8260	cis-1,2-Dichloroethene	259	ug/L	2.0	06/20/19 13:49	
EPA 8260	trans-1,2-Dichloroethene	11.5	ug/L	7.3	06/20/19 13:49	
<b>40189699015</b>	<b>MW-40</b>					
EPA 8260	1,1,1-Trichloroethane	8410	ug/L	100	06/21/19 07:53	
EPA 8260	1,1,2-Trichloroethane	4.7J	ug/L	20.0	06/20/19 14:12	
EPA 8260	1,1-Dichloroethane	528	ug/L	4.0	06/20/19 14:12	
EPA 8260	1,1-Dichloroethene	170	ug/L	4.0	06/20/19 14:12	
EPA 8260	Tetrachloroethene	3.2J	ug/L	4.4	06/20/19 14:12	
EPA 8260	Trichloroethene	248	ug/L	4.0	06/20/19 14:12	
EPA 8260	Vinyl chloride	0.90J	ug/L	4.0	06/20/19 14:12	
EPA 8260	cis-1,2-Dichloroethene	508	ug/L	4.0	06/20/19 14:12	
<b>40189699016</b>	<b>MW-18R</b>					
EPA 8260	1,1-Dichloroethane	6.7J	ug/L	20.0	06/20/19 14:35	
EPA 8260	1,1-Dichloroethene	10.2J	ug/L	20.0	06/20/19 14:35	
EPA 8260	Trichloroethene	5150	ug/L	20.0	06/20/19 14:35	
EPA 8260	Vinyl chloride	33.8	ug/L	20.0	06/20/19 14:35	
EPA 8260	cis-1,2-Dichloroethene	2390	ug/L	20.0	06/20/19 14:35	
EPA 8260	trans-1,2-Dichloroethene	23.0J	ug/L	72.7	06/20/19 14:35	
<b>40189699017</b>	<b>MW-39</b>					
EPA 8260	1,1,1-Trichloroethane	120	ug/L	10.0	06/20/19 14:58	
EPA 8260	1,1-Dichloroethane	45.2	ug/L	10.0	06/20/19 14:58	
EPA 8260	1,1-Dichloroethene	33.4	ug/L	10.0	06/20/19 14:58	
EPA 8260	Trichloroethene	839	ug/L	10.0	06/20/19 14:58	
EPA 8260	Vinyl chloride	3.1J	ug/L	10.0	06/20/19 14:58	
EPA 8260	cis-1,2-Dichloroethene	200	ug/L	10.0	06/20/19 14:58	
EPA 8260	trans-1,2-Dichloroethene	31.3J	ug/L	36.4	06/20/19 14:58	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189699

**Sample: MW-13R**      **Lab ID: 40189699001**      Collected: 06/18/19 08:30      Received: 06/19/19 09:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		06/20/19 17:15	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/20/19 17:15	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		06/20/19 17:15	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		06/20/19 17:15	79-00-5	
1,1-Dichloroethane	1.8	ug/L	1.0	0.27	1		06/20/19 17:15	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/20/19 17:15	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		06/20/19 17:15	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		06/20/19 17:15	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		06/20/19 17:15	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/20/19 17:15	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		06/20/19 17:15	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		06/20/19 17:15	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		06/20/19 17:15	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		06/20/19 17:15	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		06/20/19 17:15	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		06/20/19 17:15	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		06/20/19 17:15	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		06/20/19 17:15	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		06/20/19 17:15	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		06/20/19 17:15	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		06/20/19 17:15	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		06/20/19 17:15	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		06/20/19 17:15	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		06/20/19 17:15	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		06/20/19 17:15	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/20/19 17:15	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		06/20/19 17:15	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		06/20/19 17:15	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		06/20/19 17:15	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		06/20/19 17:15	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		06/20/19 17:15	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		06/20/19 17:15	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		06/20/19 17:15	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		06/20/19 17:15	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		06/20/19 17:15	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		06/20/19 17:15	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		06/20/19 17:15	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		06/20/19 17:15	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		06/20/19 17:15	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		06/20/19 17:15	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		06/20/19 17:15	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		06/20/19 17:15	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		06/20/19 17:15	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		06/20/19 17:15	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		06/20/19 17:15	100-42-5	
Tetrachloroethene	1.4	ug/L	1.1	0.33	1		06/20/19 17:15	127-18-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189699

Sample: MW-13R      Lab ID: 40189699001      Collected: 06/18/19 08:30      Received: 06/19/19 09:45      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Toluene	<0.17	ug/L	5.0	0.17	1		06/20/19 17:15	108-88-3	
Trichloroethene	0.37J	ug/L	1.0	0.26	1		06/20/19 17:15	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		06/20/19 17:15	75-69-4	
Vinyl chloride	10.8	ug/L	1.0	0.17	1		06/20/19 17:15	75-01-4	
cis-1,2-Dichloroethene	4.2	ug/L	1.0	0.27	1		06/20/19 17:15	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		06/20/19 17:15	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		06/20/19 17:15	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		06/20/19 17:15	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		06/20/19 17:15	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		06/20/19 17:15	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		06/20/19 17:15	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		06/20/19 17:15	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		06/20/19 17:15	98-06-6	
trans-1,2-Dichloroethene	1.3J	ug/L	3.6	1.1	1		06/20/19 17:15	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		06/20/19 17:15	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	91	%	70-130		1		06/20/19 17:15	460-00-4	
Dibromofluoromethane (S)	111	%	70-130		1		06/20/19 17:15	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		06/20/19 17:15	2037-26-5	

Sample: OP-9      Lab ID: 40189699002      Collected: 06/18/19 08:35      Received: 06/19/19 09:45      Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Ethane	2.9J	ug/L	5.6	0.58	1		06/20/19 08:58	74-84-0	
Ethene	2.8J	ug/L	5.0	0.52	1		06/20/19 08:58	74-85-1	
<b>6010 MET ICP, Dissolved</b> Analytical Method: EPA 6010									
Iron, Dissolved	7020	ug/L	118	35.4	1		06/25/19 22:33	7439-89-6	
Manganese, Dissolved	2260	ug/L	5.0	1.1	1		06/25/19 22:33	7439-96-5	
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		06/20/19 12:17	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/20/19 12:17	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		06/20/19 12:17	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		06/20/19 12:17	79-00-5	
1,1-Dichloroethane	0.73J	ug/L	1.0	0.27	1		06/20/19 12:17	75-34-3	
1,1-Dichloroethene	0.93J	ug/L	1.0	0.24	1		06/20/19 12:17	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		06/20/19 12:17	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		06/20/19 12:17	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		06/20/19 12:17	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/20/19 12:17	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		06/20/19 12:17	95-63-6	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE  
Pace Project No.: 40189699

Sample: OP-9 Lab ID: 40189699002 Collected: 06/18/19 08:35 Received: 06/19/19 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		06/20/19 12:17	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		06/20/19 12:17	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		06/20/19 12:17	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		06/20/19 12:17	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		06/20/19 12:17	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		06/20/19 12:17	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		06/20/19 12:17	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		06/20/19 12:17	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		06/20/19 12:17	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		06/20/19 12:17	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		06/20/19 12:17	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		06/20/19 12:17	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		06/20/19 12:17	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		06/20/19 12:17	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/20/19 12:17	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		06/20/19 12:17	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		06/20/19 12:17	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		06/20/19 12:17	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		06/20/19 12:17	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		06/20/19 12:17	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		06/20/19 12:17	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		06/20/19 12:17	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		06/20/19 12:17	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		06/20/19 12:17	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		06/20/19 12:17	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		06/20/19 12:17	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		06/20/19 12:17	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		06/20/19 12:17	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		06/20/19 12:17	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		06/20/19 12:17	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		06/20/19 12:17	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		06/20/19 12:17	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		06/20/19 12:17	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		06/20/19 12:17	100-42-5	
Tetrachloroethene	2.0	ug/L	1.1	0.33	1		06/20/19 12:17	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		06/20/19 12:17	108-88-3	
Trichloroethene	3.0	ug/L	1.0	0.26	1		06/20/19 12:17	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		06/20/19 12:17	75-69-4	
Vinyl chloride	36.4	ug/L	1.0	0.17	1		06/20/19 12:17	75-01-4	
cis-1,2-Dichloroethene	16.5	ug/L	1.0	0.27	1		06/20/19 12:17	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		06/20/19 12:17	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		06/20/19 12:17	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		06/20/19 12:17	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		06/20/19 12:17	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		06/20/19 12:17	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		06/20/19 12:17	99-87-6	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE  
Pace Project No.: 40189699

Sample: OP-9 Lab ID: 40189699002 Collected: 06/18/19 08:35 Received: 06/19/19 09:45 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		06/20/19 12:17	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		06/20/19 12:17	98-06-6	
trans-1,2-Dichloroethene	9.4	ug/L	3.6	1.1	1		06/20/19 12:17	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		06/20/19 12:17	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	93	%	70-130		1		06/20/19 12:17	460-00-4	
Dibromofluoromethane (S)	109	%	70-130		1		06/20/19 12:17	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		06/20/19 12:17	2037-26-5	
<b>300.0 IC Anions</b> Analytical Method: EPA 300.0									
Nitrate as N	<0.075	mg/L	0.22	0.075	1		06/19/19 18:04	14797-55-8	
Sulfate	500	mg/L	30.0	10.0	10		06/20/19 11:26	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	490	mg/L	47.0	14.1	2		06/21/19 10:11		

Sample: MW-12 Lab ID: 40189699003 Collected: 06/18/19 09:29 Received: 06/19/19 09:45 Matrix: Water									
Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Ethane	15.4	ug/L	5.6	0.58	1		06/20/19 09:05	74-84-0	
Ethene	1.4J	ug/L	5.0	0.52	1		06/20/19 09:05	74-85-1	
<b>6010 MET ICP, Dissolved</b> Analytical Method: EPA 6010									
Iron, Dissolved	18200	ug/L	118	35.4	1		06/25/19 22:40	7439-89-6	
Manganese, Dissolved	131	ug/L	5.0	1.1	1		06/25/19 22:40	7439-96-5	
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		06/20/19 15:44	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/20/19 15:44	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		06/20/19 15:44	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		06/20/19 15:44	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		06/20/19 15:44	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/20/19 15:44	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		06/20/19 15:44	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		06/20/19 15:44	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		06/20/19 15:44	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/20/19 15:44	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		06/20/19 15:44	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		06/20/19 15:44	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		06/20/19 15:44	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		06/20/19 15:44	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		06/20/19 15:44	107-06-2	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189699

**Sample: MW-12**      **Lab ID: 40189699003**      Collected: 06/18/19 09:29      Received: 06/19/19 09:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		06/20/19 15:44	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		06/20/19 15:44	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		06/20/19 15:44	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		06/20/19 15:44	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		06/20/19 15:44	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		06/20/19 15:44	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		06/20/19 15:44	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		06/20/19 15:44	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		06/20/19 15:44	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		06/20/19 15:44	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/20/19 15:44	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		06/20/19 15:44	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		06/20/19 15:44	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		06/20/19 15:44	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		06/20/19 15:44	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		06/20/19 15:44	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		06/20/19 15:44	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		06/20/19 15:44	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		06/20/19 15:44	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		06/20/19 15:44	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		06/20/19 15:44	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		06/20/19 15:44	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		06/20/19 15:44	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		06/20/19 15:44	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		06/20/19 15:44	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		06/20/19 15:44	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		06/20/19 15:44	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		06/20/19 15:44	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		06/20/19 15:44	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		06/20/19 15:44	100-42-5	
Tetrachloroethene	0.63J	ug/L	1.1	0.33	1		06/20/19 15:44	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		06/20/19 15:44	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		06/20/19 15:44	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		06/20/19 15:44	75-69-4	
Vinyl chloride	0.34J	ug/L	1.0	0.17	1		06/20/19 15:44	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		06/20/19 15:44	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		06/20/19 15:44	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		06/20/19 15:44	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		06/20/19 15:44	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		06/20/19 15:44	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		06/20/19 15:44	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		06/20/19 15:44	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		06/20/19 15:44	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		06/20/19 15:44	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		06/20/19 15:44	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		06/20/19 15:44	10061-02-6	

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## ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189699

**Sample: MW-12**      **Lab ID: 40189699003**      Collected: 06/18/19 09:29      Received: 06/19/19 09:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
<i>Surrogates</i>									
4-Bromofluorobenzene (S)	94	%	70-130		1		06/20/19 15:44	460-00-4	
Dibromofluoromethane (S)	112	%	70-130		1		06/20/19 15:44	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		06/20/19 15:44	2037-26-5	
<b>300.0 IC Anions</b> Analytical Method: EPA 300.0									
Nitrate as N	<0.38	mg/L	1.1	0.38	5		06/19/19 18:57	14797-55-8	D3
Sulfate	<5.0	mg/L	15.0	5.0	5		06/19/19 18:57	14808-79-8	D3
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	540	mg/L	47.0	14.1	2		06/21/19 10:13		

**Sample: OP-11**      **Lab ID: 40189699004**      Collected: 06/18/19 10:15      Received: 06/19/19 09:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		06/21/19 13:33	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/21/19 13:33	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		06/21/19 13:33	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		06/21/19 13:33	79-00-5	
1,1-Dichloroethane	1.2	ug/L	1.0	0.27	1		06/21/19 13:33	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/21/19 13:33	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		06/21/19 13:33	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		06/21/19 13:33	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		06/21/19 13:33	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/21/19 13:33	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		06/21/19 13:33	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		06/21/19 13:33	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		06/21/19 13:33	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		06/21/19 13:33	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		06/21/19 13:33	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		06/21/19 13:33	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		06/21/19 13:33	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		06/21/19 13:33	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		06/21/19 13:33	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		06/21/19 13:33	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		06/21/19 13:33	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		06/21/19 13:33	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		06/21/19 13:33	106-43-4	
Benzene	0.46J	ug/L	1.0	0.25	1		06/21/19 13:33	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		06/21/19 13:33	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/21/19 13:33	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		06/21/19 13:33	75-27-4	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189699

**Sample: OP-11**      **Lab ID: 40189699004**      Collected: 06/18/19 10:15      Received: 06/19/19 09:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Bromoform	<4.0	ug/L	13.2	4.0	1		06/21/19 13:33	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		06/21/19 13:33	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		06/21/19 13:33	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		06/21/19 13:33	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		06/21/19 13:33	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		06/21/19 13:33	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		06/21/19 13:33	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		06/21/19 13:33	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		06/21/19 13:33	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		06/21/19 13:33	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		06/21/19 13:33	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		06/21/19 13:33	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		06/21/19 13:33	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		06/21/19 13:33	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		06/21/19 13:33	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		06/21/19 13:33	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		06/21/19 13:33	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		06/21/19 13:33	100-42-5	
Tetrachloroethene	0.99J	ug/L	1.1	0.33	1		06/21/19 13:33	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		06/21/19 13:33	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		06/21/19 13:33	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		06/21/19 13:33	75-69-4	
Vinyl chloride	52.8	ug/L	1.0	0.17	1		06/21/19 13:33	75-01-4	
cis-1,2-Dichloroethene	2.0	ug/L	1.0	0.27	1		06/21/19 13:33	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		06/21/19 13:33	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		06/21/19 13:33	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		06/21/19 13:33	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		06/21/19 13:33	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		06/21/19 13:33	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		06/21/19 13:33	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		06/21/19 13:33	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		06/21/19 13:33	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		06/21/19 13:33	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		06/21/19 13:33	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		1		06/21/19 13:33	460-00-4	
Dibromofluoromethane (S)	113	%	70-130		1		06/21/19 13:33	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		06/21/19 13:33	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189699

**Sample: MW-15**      **Lab ID: 40189699005**      Collected: 06/18/19 10:56      Received: 06/19/19 09:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b>		Analytical Method: EPA 8015B Modified							
Ethane	<0.58	ug/L	5.6	0.58	1		06/20/19 09:12	74-84-0	
Ethene	1.3J	ug/L	5.0	0.52	1		06/20/19 09:12	74-85-1	
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010							
Iron, Dissolved	<35.4	ug/L	118	35.4	1		06/25/19 22:42	7439-89-6	
Manganese, Dissolved	6.2	ug/L	5.0	1.1	1		06/25/19 22:42	7439-96-5	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		06/20/19 16:07	630-20-6	
1,1,1-Trichloroethane	32.4	ug/L	1.0	0.24	1		06/20/19 16:07	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		06/20/19 16:07	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		06/20/19 16:07	79-00-5	
1,1-Dichloroethane	19.6	ug/L	1.0	0.27	1		06/20/19 16:07	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/20/19 16:07	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		06/20/19 16:07	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		06/20/19 16:07	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		06/20/19 16:07	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/20/19 16:07	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		06/20/19 16:07	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		06/20/19 16:07	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		06/20/19 16:07	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		06/20/19 16:07	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		06/20/19 16:07	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		06/20/19 16:07	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		06/20/19 16:07	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		06/20/19 16:07	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		06/20/19 16:07	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		06/20/19 16:07	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		06/20/19 16:07	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		06/20/19 16:07	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		06/20/19 16:07	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		06/20/19 16:07	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		06/20/19 16:07	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/20/19 16:07	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		06/20/19 16:07	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		06/20/19 16:07	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		06/20/19 16:07	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		06/20/19 16:07	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		06/20/19 16:07	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		06/20/19 16:07	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		06/20/19 16:07	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		06/20/19 16:07	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		06/20/19 16:07	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		06/20/19 16:07	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		06/20/19 16:07	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		06/20/19 16:07	108-20-3	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189699

**Sample: MW-15**      **Lab ID: 40189699005**      Collected: 06/18/19 10:56      Received: 06/19/19 09:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		06/20/19 16:07	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		06/20/19 16:07	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		06/20/19 16:07	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		06/20/19 16:07	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		06/20/19 16:07	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		06/20/19 16:07	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		06/20/19 16:07	100-42-5	
Tetrachloroethene	0.73J	ug/L	1.1	0.33	1		06/20/19 16:07	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		06/20/19 16:07	108-88-3	
Trichloroethene	1.9	ug/L	1.0	0.26	1		06/20/19 16:07	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		06/20/19 16:07	75-69-4	
Vinyl chloride	0.33J	ug/L	1.0	0.17	1		06/20/19 16:07	75-01-4	
cis-1,2-Dichloroethene	1.7	ug/L	1.0	0.27	1		06/20/19 16:07	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		06/20/19 16:07	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		06/20/19 16:07	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		06/20/19 16:07	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		06/20/19 16:07	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		06/20/19 16:07	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		06/20/19 16:07	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		06/20/19 16:07	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		06/20/19 16:07	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		06/20/19 16:07	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		06/20/19 16:07	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	93	%	70-130		1		06/20/19 16:07	460-00-4	
Dibromofluoromethane (S)	113	%	70-130		1		06/20/19 16:07	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		06/20/19 16:07	2037-26-5	
<b>300.0 IC Anions</b> Analytical Method: EPA 300.0									
Nitrate as N	<0.075	mg/L	0.22	0.075	1		06/19/19 19:10	14797-55-8	
Sulfate	107	mg/L	15.0	5.0	5		06/20/19 11:39	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	722	mg/L	47.0	14.1	2		06/21/19 10:14		

**Sample: MW-20**      **Lab ID: 40189699006**      Collected: 06/18/19 12:36      Received: 06/19/19 09:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Ethane	<0.58	ug/L	5.6	0.58	1		06/20/19 09:19	74-84-0	
Ethene	<0.52	ug/L	5.0	0.52	1		06/20/19 09:19	74-85-1	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189699

Sample: MW-20 Lab ID: 40189699006 Collected: 06/18/19 12:36 Received: 06/19/19 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010							
Iron, Dissolved	409	ug/L	118	35.4	1		06/25/19 22:45	7439-89-6	
Manganese, Dissolved	914	ug/L	5.0	1.1	1		06/25/19 22:45	7439-96-5	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		06/20/19 16:30	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/20/19 16:30	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		06/20/19 16:30	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		06/20/19 16:30	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		06/20/19 16:30	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/20/19 16:30	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		06/20/19 16:30	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		06/20/19 16:30	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		06/20/19 16:30	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/20/19 16:30	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		06/20/19 16:30	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		06/20/19 16:30	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		06/20/19 16:30	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		06/20/19 16:30	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		06/20/19 16:30	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		06/20/19 16:30	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		06/20/19 16:30	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		06/20/19 16:30	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		06/20/19 16:30	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		06/20/19 16:30	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		06/20/19 16:30	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		06/20/19 16:30	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		06/20/19 16:30	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		06/20/19 16:30	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		06/20/19 16:30	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/20/19 16:30	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		06/20/19 16:30	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		06/20/19 16:30	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		06/20/19 16:30	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		06/20/19 16:30	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		06/20/19 16:30	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		06/20/19 16:30	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		06/20/19 16:30	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		06/20/19 16:30	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		06/20/19 16:30	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		06/20/19 16:30	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		06/20/19 16:30	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		06/20/19 16:30	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		06/20/19 16:30	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		06/20/19 16:30	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		06/20/19 16:30	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		06/20/19 16:30	1634-04-4	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189699

**Sample: MW-20**      **Lab ID: 40189699006**      Collected: 06/18/19 12:36      Received: 06/19/19 09:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		06/20/19 16:30	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		06/20/19 16:30	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		06/20/19 16:30	100-42-5	
Tetrachloroethene	0.43J	ug/L	1.1	0.33	1		06/20/19 16:30	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		06/20/19 16:30	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		06/20/19 16:30	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		06/20/19 16:30	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		06/20/19 16:30	75-01-4	
cis-1,2-Dichloroethene	0.32J	ug/L	1.0	0.27	1		06/20/19 16:30	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		06/20/19 16:30	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		06/20/19 16:30	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		06/20/19 16:30	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		06/20/19 16:30	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		06/20/19 16:30	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		06/20/19 16:30	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		06/20/19 16:30	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		06/20/19 16:30	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		06/20/19 16:30	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		06/20/19 16:30	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		1		06/20/19 16:30	460-00-4	
Dibromofluoromethane (S)	112	%	70-130		1		06/20/19 16:30	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		06/20/19 16:30	2037-26-5	
<b>300.0 IC Anions</b> Analytical Method: EPA 300.0									
Nitrate as N	<0.075	mg/L	0.22	0.075	1		06/19/19 19:23	14797-55-8	
Sulfate	35.1	mg/L	3.0	1.0	1		06/19/19 19:23	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	482	mg/L	47.0	14.1	2		06/21/19 10:15		

**Sample: MW-8**      **Lab ID: 40189699007**      Collected: 06/18/19 13:28      Received: 06/19/19 09:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		06/20/19 17:38	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/20/19 17:38	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		06/20/19 17:38	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		06/20/19 17:38	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		06/20/19 17:38	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/20/19 17:38	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		06/20/19 17:38	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		06/20/19 17:38	87-61-6	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189699

Sample: MW-8 Lab ID: 40189699007 Collected: 06/18/19 13:28 Received: 06/19/19 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		06/20/19 17:38	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/20/19 17:38	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		06/20/19 17:38	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		06/20/19 17:38	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		06/20/19 17:38	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		06/20/19 17:38	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		06/20/19 17:38	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		06/20/19 17:38	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		06/20/19 17:38	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		06/20/19 17:38	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		06/20/19 17:38	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		06/20/19 17:38	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		06/20/19 17:38	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		06/20/19 17:38	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		06/20/19 17:38	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		06/20/19 17:38	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		06/20/19 17:38	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/20/19 17:38	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		06/20/19 17:38	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		06/20/19 17:38	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		06/20/19 17:38	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		06/20/19 17:38	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		06/20/19 17:38	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		06/20/19 17:38	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		06/20/19 17:38	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		06/20/19 17:38	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		06/20/19 17:38	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		06/20/19 17:38	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		06/20/19 17:38	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		06/20/19 17:38	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		06/20/19 17:38	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		06/20/19 17:38	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		06/20/19 17:38	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		06/20/19 17:38	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		06/20/19 17:38	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		06/20/19 17:38	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		06/20/19 17:38	100-42-5	
Tetrachloroethene	0.55J	ug/L	1.1	0.33	1		06/20/19 17:38	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		06/20/19 17:38	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		06/20/19 17:38	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		06/20/19 17:38	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		06/20/19 17:38	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		06/20/19 17:38	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		06/20/19 17:38	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		06/20/19 17:38	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		06/20/19 17:38	104-51-8	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189699

**Sample: MW-8**      **Lab ID: 40189699007**      Collected: 06/18/19 13:28      Received: 06/19/19 09:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		06/20/19 17:38	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		06/20/19 17:38	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		06/20/19 17:38	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		06/20/19 17:38	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		06/20/19 17:38	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		06/20/19 17:38	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		06/20/19 17:38	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		1		06/20/19 17:38	460-00-4	
Dibromofluoromethane (S)	114	%	70-130		1		06/20/19 17:38	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		06/20/19 17:38	2037-26-5	

**Sample: MW-7R**      **Lab ID: 40189699008**      Collected: 06/18/19 14:26      Received: 06/19/19 09:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Ethane	1.8J	ug/L	5.6	0.58	1		06/20/19 09:26	74-84-0	
Ethene	<0.52	ug/L	5.0	0.52	1		06/20/19 09:26	74-85-1	
<b>6010 MET ICP, Dissolved</b> Analytical Method: EPA 6010									
Iron, Dissolved	10300	ug/L	118	35.4	1		06/25/19 22:47	7439-89-6	
Manganese, Dissolved	689	ug/L	5.0	1.1	1		06/25/19 22:47	7439-96-5	
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		06/20/19 16:52	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/20/19 16:52	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		06/20/19 16:52	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		06/20/19 16:52	79-00-5	
1,1-Dichloroethane	1.1	ug/L	1.0	0.27	1		06/20/19 16:52	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/20/19 16:52	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		06/20/19 16:52	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		06/20/19 16:52	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		06/20/19 16:52	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/20/19 16:52	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		06/20/19 16:52	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		06/20/19 16:52	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		06/20/19 16:52	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		06/20/19 16:52	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		06/20/19 16:52	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		06/20/19 16:52	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		06/20/19 16:52	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		06/20/19 16:52	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		06/20/19 16:52	142-28-9	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189699

**Sample: MW-7R**      **Lab ID: 40189699008**      Collected: 06/18/19 14:26      Received: 06/19/19 09:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		06/20/19 16:52	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		06/20/19 16:52	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		06/20/19 16:52	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		06/20/19 16:52	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		06/20/19 16:52	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		06/20/19 16:52	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/20/19 16:52	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		06/20/19 16:52	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		06/20/19 16:52	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		06/20/19 16:52	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		06/20/19 16:52	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		06/20/19 16:52	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		06/20/19 16:52	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		06/20/19 16:52	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		06/20/19 16:52	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		06/20/19 16:52	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		06/20/19 16:52	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		06/20/19 16:52	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		06/20/19 16:52	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		06/20/19 16:52	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		06/20/19 16:52	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		06/20/19 16:52	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		06/20/19 16:52	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		06/20/19 16:52	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		06/20/19 16:52	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		06/20/19 16:52	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		06/20/19 16:52	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		06/20/19 16:52	108-88-3	
Trichloroethene	0.41J	ug/L	1.0	0.26	1		06/20/19 16:52	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		06/20/19 16:52	75-69-4	
Vinyl chloride	0.69J	ug/L	1.0	0.17	1		06/20/19 16:52	75-01-4	
cis-1,2-Dichloroethene	1.5	ug/L	1.0	0.27	1		06/20/19 16:52	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		06/20/19 16:52	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		06/20/19 16:52	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		06/20/19 16:52	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		06/20/19 16:52	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		06/20/19 16:52	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		06/20/19 16:52	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		06/20/19 16:52	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		06/20/19 16:52	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		06/20/19 16:52	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		06/20/19 16:52	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		1		06/20/19 16:52	460-00-4	
Dibromofluoromethane (S)	114	%	70-130		1		06/20/19 16:52	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		06/20/19 16:52	2037-26-5	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189699

**Sample: MW-7R**      **Lab ID: 40189699008**      Collected: 06/18/19 14:26      Received: 06/19/19 09:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions</b> Analytical Method: EPA 300.0									
Nitrate as N	<0.38	mg/L	1.1	0.38	5		06/19/19 19:36	14797-55-8	D3
Sulfate	52.2	mg/L	15.0	5.0	5		06/19/19 19:36	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	570	mg/L	47.0	14.1	2		06/21/19 10:15		
<b>5310C TOC</b> Analytical Method: SM 5310C									
Total Organic Carbon	6.7	mg/L	5.0	1.5	6		06/21/19 13:01	7440-44-0	

**Sample: RW-15**      **Lab ID: 40189699009**      Collected: 06/18/19 11:54      Received: 06/19/19 09:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		06/20/19 18:01	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/20/19 18:01	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		06/20/19 18:01	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		06/20/19 18:01	79-00-5	
1,1-Dichloroethane	0.41J	ug/L	1.0	0.27	1		06/20/19 18:01	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/20/19 18:01	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		06/20/19 18:01	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		06/20/19 18:01	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		06/20/19 18:01	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/20/19 18:01	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		06/20/19 18:01	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		06/20/19 18:01	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		06/20/19 18:01	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		06/20/19 18:01	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		06/20/19 18:01	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		06/20/19 18:01	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		06/20/19 18:01	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		06/20/19 18:01	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		06/20/19 18:01	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		06/20/19 18:01	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		06/20/19 18:01	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		06/20/19 18:01	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		06/20/19 18:01	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		06/20/19 18:01	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		06/20/19 18:01	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/20/19 18:01	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		06/20/19 18:01	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		06/20/19 18:01	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		06/20/19 18:01	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		06/20/19 18:01	56-23-5	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189699

Sample: **RW-15** Lab ID: **40189699009** Collected: 06/18/19 11:54 Received: 06/19/19 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		06/20/19 18:01	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		06/20/19 18:01	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		06/20/19 18:01	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		06/20/19 18:01	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		06/20/19 18:01	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		06/20/19 18:01	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		06/20/19 18:01	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		06/20/19 18:01	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		06/20/19 18:01	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		06/20/19 18:01	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		06/20/19 18:01	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		06/20/19 18:01	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		06/20/19 18:01	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		06/20/19 18:01	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		06/20/19 18:01	100-42-5	
Tetrachloroethene	0.55J	ug/L	1.1	0.33	1		06/20/19 18:01	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		06/20/19 18:01	108-88-3	
Trichloroethene	0.36J	ug/L	1.0	0.26	1		06/20/19 18:01	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		06/20/19 18:01	75-69-4	
Vinyl chloride	0.40J	ug/L	1.0	0.17	1		06/20/19 18:01	75-01-4	
cis-1,2-Dichloroethene	1.2	ug/L	1.0	0.27	1		06/20/19 18:01	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		06/20/19 18:01	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		06/20/19 18:01	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		06/20/19 18:01	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		06/20/19 18:01	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		06/20/19 18:01	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		06/20/19 18:01	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		06/20/19 18:01	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		06/20/19 18:01	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		06/20/19 18:01	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		06/20/19 18:01	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	93	%	70-130		1		06/20/19 18:01	460-00-4	
Dibromofluoromethane (S)	115	%	70-130		1		06/20/19 18:01	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		06/20/19 18:01	2037-26-5	

Sample: **DUP-1** Lab ID: **40189699010** Collected: 06/18/19 14:35 Received: 06/19/19 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		06/20/19 18:24	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/20/19 18:24	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		06/20/19 18:24	79-34-5	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE  
Pace Project No.: 40189699

Sample: DUP-1 Lab ID: 40189699010 Collected: 06/18/19 14:35 Received: 06/19/19 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		06/20/19 18:24	79-00-5	
1,1-Dichloroethane	1.4	ug/L	1.0	0.27	1		06/20/19 18:24	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/20/19 18:24	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		06/20/19 18:24	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		06/20/19 18:24	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		06/20/19 18:24	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/20/19 18:24	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		06/20/19 18:24	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		06/20/19 18:24	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		06/20/19 18:24	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		06/20/19 18:24	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		06/20/19 18:24	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		06/20/19 18:24	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		06/20/19 18:24	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		06/20/19 18:24	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		06/20/19 18:24	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		06/20/19 18:24	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		06/20/19 18:24	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		06/20/19 18:24	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		06/20/19 18:24	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		06/20/19 18:24	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		06/20/19 18:24	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/20/19 18:24	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		06/20/19 18:24	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		06/20/19 18:24	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		06/20/19 18:24	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		06/20/19 18:24	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		06/20/19 18:24	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		06/20/19 18:24	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		06/20/19 18:24	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		06/20/19 18:24	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		06/20/19 18:24	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		06/20/19 18:24	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		06/20/19 18:24	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		06/20/19 18:24	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		06/20/19 18:24	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		06/20/19 18:24	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		06/20/19 18:24	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		06/20/19 18:24	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		06/20/19 18:24	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		06/20/19 18:24	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		06/20/19 18:24	100-42-5	
Tetrachloroethene	0.40J	ug/L	1.1	0.33	1		06/20/19 18:24	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		06/20/19 18:24	108-88-3	
Trichloroethene	0.41J	ug/L	1.0	0.26	1		06/20/19 18:24	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		06/20/19 18:24	75-69-4	

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## ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189699

**Sample: DUP-1**      **Lab ID: 40189699010**      Collected: 06/18/19 14:35      Received: 06/19/19 09:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Vinyl chloride	<b>0.56J</b>	ug/L	1.0	0.17	1		06/20/19 18:24	75-01-4	
cis-1,2-Dichloroethene	<b>1.5</b>	ug/L	1.0	0.27	1		06/20/19 18:24	156-59-2	
cis-1,3-Dichloropropene	<b>&lt;3.6</b>	ug/L	12.1	3.6	1		06/20/19 18:24	10061-01-5	
m&p-Xylene	<b>&lt;0.47</b>	ug/L	2.0	0.47	1		06/20/19 18:24	179601-23-1	
n-Butylbenzene	<b>&lt;0.71</b>	ug/L	2.4	0.71	1		06/20/19 18:24	104-51-8	
n-Propylbenzene	<b>&lt;0.81</b>	ug/L	5.0	0.81	1		06/20/19 18:24	103-65-1	
o-Xylene	<b>&lt;0.26</b>	ug/L	1.0	0.26	1		06/20/19 18:24	95-47-6	
p-Isopropyltoluene	<b>&lt;0.80</b>	ug/L	2.7	0.80	1		06/20/19 18:24	99-87-6	
sec-Butylbenzene	<b>&lt;0.85</b>	ug/L	5.0	0.85	1		06/20/19 18:24	135-98-8	
tert-Butylbenzene	<b>&lt;0.30</b>	ug/L	1.0	0.30	1		06/20/19 18:24	98-06-6	
trans-1,2-Dichloroethene	<b>&lt;1.1</b>	ug/L	3.6	1.1	1		06/20/19 18:24	156-60-5	
trans-1,3-Dichloropropene	<b>&lt;4.4</b>	ug/L	14.6	4.4	1		06/20/19 18:24	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		1		06/20/19 18:24	460-00-4	
Dibromofluoromethane (S)	117	%	70-130		1		06/20/19 18:24	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		06/20/19 18:24	2037-26-5	

**Sample: MW-37R**      **Lab ID: 40189699011**      Collected: 06/18/19 14:28      Received: 06/19/19 09:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Ethane	<b>&lt;0.58</b>	ug/L	5.6	0.58	1		06/20/19 09:58	74-84-0	
Ethene	<b>&lt;0.52</b>	ug/L	5.0	0.52	1		06/20/19 09:58	74-85-1	
<b>6010 MET ICP, Dissolved</b> Analytical Method: EPA 6010									
Iron, Dissolved	<b>&lt;35.4</b>	ug/L	118	35.4	1		06/25/19 22:50	7439-89-6	
Manganese, Dissolved	<b>&lt;1.1</b>	ug/L	5.0	1.1	1		06/25/19 22:50	7439-96-5	
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<b>&lt;0.27</b>	ug/L	1.0	0.27	1		06/20/19 18:47	630-20-6	
1,1,1-Trichloroethane	<b>&lt;0.24</b>	ug/L	1.0	0.24	1		06/20/19 18:47	71-55-6	
1,1,2,2-Tetrachloroethane	<b>&lt;0.28</b>	ug/L	1.0	0.28	1		06/20/19 18:47	79-34-5	
1,1,2-Trichloroethane	<b>&lt;0.55</b>	ug/L	5.0	0.55	1		06/20/19 18:47	79-00-5	
1,1-Dichloroethane	<b>&lt;0.27</b>	ug/L	1.0	0.27	1		06/20/19 18:47	75-34-3	
1,1-Dichloroethene	<b>&lt;0.24</b>	ug/L	1.0	0.24	1		06/20/19 18:47	75-35-4	
1,1-Dichloropropene	<b>&lt;0.54</b>	ug/L	1.8	0.54	1		06/20/19 18:47	563-58-6	
1,2,3-Trichlorobenzene	<b>&lt;0.63</b>	ug/L	5.0	0.63	1		06/20/19 18:47	87-61-6	
1,2,3-Trichloropropane	<b>&lt;0.59</b>	ug/L	5.0	0.59	1		06/20/19 18:47	96-18-4	
1,2,4-Trichlorobenzene	<b>&lt;0.95</b>	ug/L	5.0	0.95	1		06/20/19 18:47	120-82-1	
1,2,4-Trimethylbenzene	<b>&lt;0.84</b>	ug/L	2.8	0.84	1		06/20/19 18:47	95-63-6	
1,2-Dibromo-3-chloropropane	<b>&lt;1.8</b>	ug/L	5.9	1.8	1		06/20/19 18:47	96-12-8	
1,2-Dibromoethane (EDB)	<b>&lt;0.83</b>	ug/L	2.8	0.83	1		06/20/19 18:47	106-93-4	
1,2-Dichlorobenzene	<b>&lt;0.71</b>	ug/L	2.4	0.71	1		06/20/19 18:47	95-50-1	

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## ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189699

**Sample: MW-37R**      **Lab ID: 40189699011**      Collected: 06/18/19 14:28      Received: 06/19/19 09:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		06/20/19 18:47	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		06/20/19 18:47	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		06/20/19 18:47	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		06/20/19 18:47	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		06/20/19 18:47	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		06/20/19 18:47	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		06/20/19 18:47	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		06/20/19 18:47	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		06/20/19 18:47	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		06/20/19 18:47	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		06/20/19 18:47	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/20/19 18:47	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		06/20/19 18:47	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		06/20/19 18:47	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		06/20/19 18:47	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		06/20/19 18:47	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		06/20/19 18:47	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		06/20/19 18:47	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		06/20/19 18:47	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		06/20/19 18:47	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		06/20/19 18:47	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		06/20/19 18:47	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		06/20/19 18:47	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		06/20/19 18:47	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		06/20/19 18:47	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		06/20/19 18:47	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		06/20/19 18:47	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		06/20/19 18:47	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		06/20/19 18:47	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		06/20/19 18:47	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		06/20/19 18:47	100-42-5	
Tetrachloroethene	0.65J	ug/L	1.1	0.33	1		06/20/19 18:47	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		06/20/19 18:47	108-88-3	
Trichloroethene	1.8	ug/L	1.0	0.26	1		06/20/19 18:47	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		06/20/19 18:47	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		06/20/19 18:47	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		06/20/19 18:47	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		06/20/19 18:47	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		06/20/19 18:47	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		06/20/19 18:47	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		06/20/19 18:47	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		06/20/19 18:47	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		06/20/19 18:47	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		06/20/19 18:47	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		06/20/19 18:47	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		06/20/19 18:47	156-60-5	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189699

**Sample: MW-37R**      **Lab ID: 40189699011**      Collected: 06/18/19 14:28      Received: 06/19/19 09:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		06/20/19 18:47	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	90	%	70-130		1		06/20/19 18:47	460-00-4	
Dibromofluoromethane (S)	116	%	70-130		1		06/20/19 18:47	1868-53-7	
Toluene-d8 (S)	98	%	70-130		1		06/20/19 18:47	2037-26-5	
<b>300.0 IC Anions</b> Analytical Method: EPA 300.0									
Nitrate as N	<0.075	mg/L	0.22	0.075	1		06/19/19 19:50	14797-55-8	
Sulfate	13.0	mg/L	3.0	1.0	1		06/19/19 19:50	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	178	mg/L	23.5	7.0	1		06/21/19 10:16		

**Sample: MW-17R**      **Lab ID: 40189699012**      Collected: 06/18/19 15:56      Received: 06/19/19 09:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Ethane	<0.58	ug/L	5.6	0.58	1		06/20/19 10:05	74-84-0	
Ethene	0.97J	ug/L	5.0	0.52	1		06/20/19 10:05	74-85-1	
<b>6010 MET ICP, Dissolved</b> Analytical Method: EPA 6010									
Iron, Dissolved	<35.4	ug/L	118	35.4	1		06/25/19 22:52	7439-89-6	
Manganese, Dissolved	<1.1	ug/L	5.0	1.1	1		06/25/19 22:52	7439-96-5	
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<2.7	ug/L	10.0	2.7	10		06/20/19 13:03	630-20-6	
1,1,1-Trichloroethane	<2.4	ug/L	10.0	2.4	10		06/20/19 13:03	71-55-6	
1,1,2,2-Tetrachloroethane	<2.8	ug/L	10.0	2.8	10		06/20/19 13:03	79-34-5	
1,1,2-Trichloroethane	<5.5	ug/L	50.0	5.5	10		06/20/19 13:03	79-00-5	
1,1-Dichloroethane	<2.7	ug/L	10.0	2.7	10		06/20/19 13:03	75-34-3	
1,1-Dichloroethene	<2.4	ug/L	10.0	2.4	10		06/20/19 13:03	75-35-4	
1,1-Dichloropropene	<5.4	ug/L	18.0	5.4	10		06/20/19 13:03	563-58-6	
1,2,3-Trichlorobenzene	<6.3	ug/L	50.0	6.3	10		06/20/19 13:03	87-61-6	
1,2,3-Trichloropropane	<5.9	ug/L	50.0	5.9	10		06/20/19 13:03	96-18-4	
1,2,4-Trichlorobenzene	<9.5	ug/L	50.0	9.5	10		06/20/19 13:03	120-82-1	
1,2,4-Trimethylbenzene	<8.4	ug/L	28.0	8.4	10		06/20/19 13:03	95-63-6	
1,2-Dibromo-3-chloropropane	<17.6	ug/L	58.8	17.6	10		06/20/19 13:03	96-12-8	
1,2-Dibromoethane (EDB)	<8.3	ug/L	27.6	8.3	10		06/20/19 13:03	106-93-4	
1,2-Dichlorobenzene	<7.1	ug/L	23.5	7.1	10		06/20/19 13:03	95-50-1	
1,2-Dichloroethane	<2.8	ug/L	10.0	2.8	10		06/20/19 13:03	107-06-2	
1,2-Dichloropropane	<2.8	ug/L	10.0	2.8	10		06/20/19 13:03	78-87-5	
1,3,5-Trimethylbenzene	<8.7	ug/L	29.1	8.7	10		06/20/19 13:03	108-67-8	
1,3-Dichlorobenzene	<6.3	ug/L	20.9	6.3	10		06/20/19 13:03	541-73-1	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189699

**Sample: MW-17R**      **Lab ID: 40189699012**      Collected: 06/18/19 15:56      Received: 06/19/19 09:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,3-Dichloropropane	<8.3	ug/L	27.5	8.3	10		06/20/19 13:03	142-28-9	
1,4-Dichlorobenzene	<9.4	ug/L	31.5	9.4	10		06/20/19 13:03	106-46-7	
2,2-Dichloropropane	<22.7	ug/L	75.5	22.7	10		06/20/19 13:03	594-20-7	
2-Chlorotoluene	<9.3	ug/L	50.0	9.3	10		06/20/19 13:03	95-49-8	
4-Chlorotoluene	<7.6	ug/L	25.2	7.6	10		06/20/19 13:03	106-43-4	
Benzene	<2.5	ug/L	10.0	2.5	10		06/20/19 13:03	71-43-2	
Bromobenzene	<2.4	ug/L	10.0	2.4	10		06/20/19 13:03	108-86-1	
Bromochloromethane	<3.6	ug/L	50.0	3.6	10		06/20/19 13:03	74-97-5	
Bromodichloromethane	<3.6	ug/L	12.1	3.6	10		06/20/19 13:03	75-27-4	
Bromoform	<39.7	ug/L	132	39.7	10		06/20/19 13:03	75-25-2	
Bromomethane	<9.7	ug/L	50.0	9.7	10		06/20/19 13:03	74-83-9	
Carbon tetrachloride	<1.7	ug/L	10.0	1.7	10		06/20/19 13:03	56-23-5	
Chlorobenzene	<7.1	ug/L	23.7	7.1	10		06/20/19 13:03	108-90-7	
Chloroethane	<13.4	ug/L	50.0	13.4	10		06/20/19 13:03	75-00-3	
Chloroform	<12.7	ug/L	50.0	12.7	10		06/20/19 13:03	67-66-3	
Chloromethane	<21.9	ug/L	73.0	21.9	10		06/20/19 13:03	74-87-3	
Dibromochloromethane	<26.0	ug/L	86.7	26.0	10		06/20/19 13:03	124-48-1	
Dibromomethane	<9.4	ug/L	31.2	9.4	10		06/20/19 13:03	74-95-3	
Dichlorodifluoromethane	<5.0	ug/L	50.0	5.0	10		06/20/19 13:03	75-71-8	
Diisopropyl ether	<18.9	ug/L	62.9	18.9	10		06/20/19 13:03	108-20-3	
Ethylbenzene	<2.2	ug/L	10.0	2.2	10		06/20/19 13:03	100-41-4	
Hexachloro-1,3-butadiene	<11.8	ug/L	50.0	11.8	10		06/20/19 13:03	87-68-3	
Isopropylbenzene (Cumene)	<3.9	ug/L	50.0	3.9	10		06/20/19 13:03	98-82-8	
Methyl-tert-butyl ether	<12.5	ug/L	41.5	12.5	10		06/20/19 13:03	1634-04-4	
Methylene Chloride	<5.8	ug/L	50.0	5.8	10		06/20/19 13:03	75-09-2	
Naphthalene	<11.8	ug/L	50.0	11.8	10		06/20/19 13:03	91-20-3	
Styrene	<4.7	ug/L	15.5	4.7	10		06/20/19 13:03	100-42-5	
Tetrachloroethene	<3.3	ug/L	10.9	3.3	10		06/20/19 13:03	127-18-4	
Toluene	<1.7	ug/L	50.0	1.7	10		06/20/19 13:03	108-88-3	
Trichloroethene	412	ug/L	10.0	2.6	10		06/20/19 13:03	79-01-6	
Trichlorofluoromethane	<2.1	ug/L	10.0	2.1	10		06/20/19 13:03	75-69-4	
Vinyl chloride	16.2	ug/L	10.0	1.7	10		06/20/19 13:03	75-01-4	
cis-1,2-Dichloroethene	253	ug/L	10.0	2.7	10		06/20/19 13:03	156-59-2	
cis-1,3-Dichloropropene	<36.3	ug/L	121	36.3	10		06/20/19 13:03	10061-01-5	
m&p-Xylene	<4.7	ug/L	20.0	4.7	10		06/20/19 13:03	179601-23-1	
n-Butylbenzene	<7.1	ug/L	23.6	7.1	10		06/20/19 13:03	104-51-8	
n-Propylbenzene	<8.1	ug/L	50.0	8.1	10		06/20/19 13:03	103-65-1	
o-Xylene	<2.6	ug/L	10.0	2.6	10		06/20/19 13:03	95-47-6	
p-Isopropyltoluene	<8.0	ug/L	26.7	8.0	10		06/20/19 13:03	99-87-6	
sec-Butylbenzene	<8.5	ug/L	50.0	8.5	10		06/20/19 13:03	135-98-8	
tert-Butylbenzene	<3.0	ug/L	10.1	3.0	10		06/20/19 13:03	98-06-6	
trans-1,2-Dichloroethene	13.4J	ug/L	36.4	10.9	10		06/20/19 13:03	156-60-5	
trans-1,3-Dichloropropene	<43.7	ug/L	146	43.7	10		06/20/19 13:03	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	93	%	70-130		10		06/20/19 13:03	460-00-4	
Dibromofluoromethane (S)	115	%	70-130		10		06/20/19 13:03	1868-53-7	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189699

Sample: MW-17R Lab ID: 40189699012 Collected: 06/18/19 15:56 Received: 06/19/19 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
<b>Surrogates</b>									
Toluene-d8 (S)	101	%	70-130		10		06/20/19 13:03	2037-26-5	
<b>300.0 IC Anions</b> Analytical Method: EPA 300.0									
Nitrate as N	<0.075	mg/L	0.22	0.075	1		06/19/19 20:03	14797-55-8	
Sulfate	169	mg/L	30.0	10.0	10		06/20/19 11:52	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	156	mg/L	47.0	14.1	2		06/21/19 10:16		M0

Sample: MW-16 Lab ID: 40189699013 Collected: 06/18/19 12:15 Received: 06/19/19 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Ethane	<0.58	ug/L	5.6	0.58	1		06/20/19 10:12	74-84-0	
Ethene	<0.52	ug/L	5.0	0.52	1		06/20/19 10:12	74-85-1	
<b>6010 MET ICP, Dissolved</b> Analytical Method: EPA 6010									
Iron, Dissolved	281	ug/L	118	35.4	1		06/25/19 22:55	7439-89-6	
Manganese, Dissolved	42.4	ug/L	5.0	1.1	1		06/25/19 22:55	7439-96-5	
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<5.4	ug/L	20.0	5.4	20		06/20/19 13:26	630-20-6	
1,1,1-Trichloroethane	953	ug/L	20.0	4.9	20		06/20/19 13:26	71-55-6	
1,1,2,2-Tetrachloroethane	<5.5	ug/L	20.0	5.5	20		06/20/19 13:26	79-34-5	
1,1,2-Trichloroethane	<11.0	ug/L	100	11.0	20		06/20/19 13:26	79-00-5	
1,1-Dichloroethane	80.1	ug/L	20.0	5.5	20		06/20/19 13:26	75-34-3	
1,1-Dichloroethene	9.0J	ug/L	20.0	4.9	20		06/20/19 13:26	75-35-4	
1,1-Dichloropropene	<10.8	ug/L	36.0	10.8	20		06/20/19 13:26	563-58-6	
1,2,3-Trichlorobenzene	<12.5	ug/L	100	12.5	20		06/20/19 13:26	87-61-6	
1,2,3-Trichloropropane	<11.8	ug/L	100	11.8	20		06/20/19 13:26	96-18-4	
1,2,4-Trichlorobenzene	<19.0	ug/L	100	19.0	20		06/20/19 13:26	120-82-1	
1,2,4-Trimethylbenzene	<16.8	ug/L	56.0	16.8	20		06/20/19 13:26	95-63-6	
1,2-Dibromo-3-chloropropane	<35.3	ug/L	118	35.3	20		06/20/19 13:26	96-12-8	
1,2-Dibromoethane (EDB)	<16.6	ug/L	55.3	16.6	20		06/20/19 13:26	106-93-4	
1,2-Dichlorobenzene	<14.1	ug/L	47.0	14.1	20		06/20/19 13:26	95-50-1	
1,2-Dichloroethane	<5.6	ug/L	20.0	5.6	20		06/20/19 13:26	107-06-2	
1,2-Dichloropropane	<5.7	ug/L	20.0	5.7	20		06/20/19 13:26	78-87-5	
1,3,5-Trimethylbenzene	<17.5	ug/L	58.2	17.5	20		06/20/19 13:26	108-67-8	
1,3-Dichlorobenzene	<12.6	ug/L	41.9	12.6	20		06/20/19 13:26	541-73-1	
1,3-Dichloropropane	<16.5	ug/L	55.1	16.5	20		06/20/19 13:26	142-28-9	
1,4-Dichlorobenzene	<18.9	ug/L	62.9	18.9	20		06/20/19 13:26	106-46-7	
2,2-Dichloropropane	<45.3	ug/L	151	45.3	20		06/20/19 13:26	594-20-7	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189699

**Sample: MW-16**      **Lab ID: 40189699013**      Collected: 06/18/19 12:15      Received: 06/19/19 09:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
2-Chlorotoluene	<18.5	ug/L	100	18.5	20		06/20/19 13:26	95-49-8	
4-Chlorotoluene	<15.1	ug/L	50.4	15.1	20		06/20/19 13:26	106-43-4	
Benzene	<4.9	ug/L	20.0	4.9	20		06/20/19 13:26	71-43-2	
Bromobenzene	<4.8	ug/L	20.0	4.8	20		06/20/19 13:26	108-86-1	
Bromochloromethane	<7.2	ug/L	100	7.2	20		06/20/19 13:26	74-97-5	
Bromodichloromethane	<7.3	ug/L	24.2	7.3	20		06/20/19 13:26	75-27-4	
Bromoform	<79.4	ug/L	265	79.4	20		06/20/19 13:26	75-25-2	
Bromomethane	<19.4	ug/L	100	19.4	20		06/20/19 13:26	74-83-9	
Carbon tetrachloride	<3.3	ug/L	20.0	3.3	20		06/20/19 13:26	56-23-5	
Chlorobenzene	<14.2	ug/L	47.4	14.2	20		06/20/19 13:26	108-90-7	
Chloroethane	<26.8	ug/L	100	26.8	20		06/20/19 13:26	75-00-3	
Chloroform	<25.5	ug/L	100	25.5	20		06/20/19 13:26	67-66-3	
Chloromethane	<43.8	ug/L	146	43.8	20		06/20/19 13:26	74-87-3	
Dibromochloromethane	<52.0	ug/L	173	52.0	20		06/20/19 13:26	124-48-1	
Dibromomethane	<18.7	ug/L	62.5	18.7	20		06/20/19 13:26	74-95-3	
Dichlorodifluoromethane	<10	ug/L	100	10	20		06/20/19 13:26	75-71-8	
Diisopropyl ether	<37.8	ug/L	126	37.8	20		06/20/19 13:26	108-20-3	
Ethylbenzene	<4.4	ug/L	20.0	4.4	20		06/20/19 13:26	100-41-4	
Hexachloro-1,3-butadiene	<23.6	ug/L	100	23.6	20		06/20/19 13:26	87-68-3	
Isopropylbenzene (Cumene)	<7.9	ug/L	100	7.9	20		06/20/19 13:26	98-82-8	
Methyl-tert-butyl ether	<24.9	ug/L	83.1	24.9	20		06/20/19 13:26	1634-04-4	
Methylene Chloride	<11.6	ug/L	100	11.6	20		06/20/19 13:26	75-09-2	
Naphthalene	<23.5	ug/L	100	23.5	20		06/20/19 13:26	91-20-3	
Styrene	<9.3	ug/L	31.0	9.3	20		06/20/19 13:26	100-42-5	
Tetrachloroethene	<6.5	ug/L	21.8	6.5	20		06/20/19 13:26	127-18-4	
Toluene	<3.4	ug/L	100	3.4	20		06/20/19 13:26	108-88-3	
Trichloroethene	38.6	ug/L	20.0	5.1	20		06/20/19 13:26	79-01-6	
Trichlorofluoromethane	<4.3	ug/L	20.0	4.3	20		06/20/19 13:26	75-69-4	
Vinyl chloride	<3.5	ug/L	20.0	3.5	20		06/20/19 13:26	75-01-4	
cis-1,2-Dichloroethene	177	ug/L	20.0	5.4	20		06/20/19 13:26	156-59-2	
cis-1,3-Dichloropropene	<72.6	ug/L	242	72.6	20		06/20/19 13:26	10061-01-5	
m&p-Xylene	<9.3	ug/L	40.0	9.3	20		06/20/19 13:26	179601-23-1	
n-Butylbenzene	<14.2	ug/L	47.2	14.2	20		06/20/19 13:26	104-51-8	
n-Propylbenzene	<16.2	ug/L	100	16.2	20		06/20/19 13:26	103-65-1	
o-Xylene	<5.2	ug/L	20.0	5.2	20		06/20/19 13:26	95-47-6	
p-Isopropyltoluene	<16.0	ug/L	53.3	16.0	20		06/20/19 13:26	99-87-6	
sec-Butylbenzene	<17.0	ug/L	100	17.0	20		06/20/19 13:26	135-98-8	
tert-Butylbenzene	<6.1	ug/L	20.3	6.1	20		06/20/19 13:26	98-06-6	
trans-1,2-Dichloroethene	<21.8	ug/L	72.7	21.8	20		06/20/19 13:26	156-60-5	
trans-1,3-Dichloropropene	<87.4	ug/L	291	87.4	20		06/20/19 13:26	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		20		06/20/19 13:26	460-00-4	
Dibromofluoromethane (S)	119	%	70-130		20		06/20/19 13:26	1868-53-7	
Toluene-d8 (S)	100	%	70-130		20		06/20/19 13:26	2037-26-5	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189699

**Sample: MW-16**      **Lab ID: 40189699013**      Collected: 06/18/19 12:15      Received: 06/19/19 09:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions</b> Analytical Method: EPA 300.0									
Nitrate as N	<0.38	mg/L	1.1	0.38	5		06/20/19 10:46	14797-55-8	D3
Sulfate	45.1	mg/L	15.0	5.0	5		06/20/19 10:46	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	426	mg/L	47.0	14.1	2		06/21/19 10:18		
<b>5310C TOC</b> Analytical Method: SM 5310C									
Total Organic Carbon	3.0	mg/L	1.7	0.50	2		06/21/19 14:04	7440-44-0	

**Sample: DUP-2**      **Lab ID: 40189699014**      Collected: 06/18/19 00:00      Received: 06/19/19 09:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.54	ug/L	2.0	0.54	2		06/20/19 13:49	630-20-6	
1,1,1-Trichloroethane	<0.49	ug/L	2.0	0.49	2		06/20/19 13:49	71-55-6	
1,1,2,2-Tetrachloroethane	<0.55	ug/L	2.0	0.55	2		06/20/19 13:49	79-34-5	
1,1,2-Trichloroethane	<1.1	ug/L	10.0	1.1	2		06/20/19 13:49	79-00-5	
1,1-Dichloroethane	1.5J	ug/L	2.0	0.55	2		06/20/19 13:49	75-34-3	
1,1-Dichloroethene	1.0J	ug/L	2.0	0.49	2		06/20/19 13:49	75-35-4	
1,1-Dichloropropene	<1.1	ug/L	3.6	1.1	2		06/20/19 13:49	563-58-6	
1,2,3-Trichlorobenzene	<1.3	ug/L	10.0	1.3	2		06/20/19 13:49	87-61-6	
1,2,3-Trichloropropane	<1.2	ug/L	10.0	1.2	2		06/20/19 13:49	96-18-4	
1,2,4-Trichlorobenzene	<1.9	ug/L	10.0	1.9	2		06/20/19 13:49	120-82-1	
1,2,4-Trimethylbenzene	<1.7	ug/L	5.6	1.7	2		06/20/19 13:49	95-63-6	
1,2-Dibromo-3-chloropropane	<3.5	ug/L	11.8	3.5	2		06/20/19 13:49	96-12-8	
1,2-Dibromoethane (EDB)	<1.7	ug/L	5.5	1.7	2		06/20/19 13:49	106-93-4	
1,2-Dichlorobenzene	<1.4	ug/L	4.7	1.4	2		06/20/19 13:49	95-50-1	
1,2-Dichloroethane	<0.56	ug/L	2.0	0.56	2		06/20/19 13:49	107-06-2	
1,2-Dichloropropane	<0.57	ug/L	2.0	0.57	2		06/20/19 13:49	78-87-5	
1,3,5-Trimethylbenzene	<1.7	ug/L	5.8	1.7	2		06/20/19 13:49	108-67-8	
1,3-Dichlorobenzene	<1.3	ug/L	4.2	1.3	2		06/20/19 13:49	541-73-1	
1,3-Dichloropropane	<1.7	ug/L	5.5	1.7	2		06/20/19 13:49	142-28-9	
1,4-Dichlorobenzene	<1.9	ug/L	6.3	1.9	2		06/20/19 13:49	106-46-7	
2,2-Dichloropropane	<4.5	ug/L	15.1	4.5	2		06/20/19 13:49	594-20-7	
2-Chlorotoluene	<1.9	ug/L	10.0	1.9	2		06/20/19 13:49	95-49-8	
4-Chlorotoluene	<1.5	ug/L	5.0	1.5	2		06/20/19 13:49	106-43-4	
Benzene	<0.49	ug/L	2.0	0.49	2		06/20/19 13:49	71-43-2	
Bromobenzene	<0.48	ug/L	2.0	0.48	2		06/20/19 13:49	108-86-1	
Bromochloromethane	<0.72	ug/L	10.0	0.72	2		06/20/19 13:49	74-97-5	
Bromodichloromethane	<0.73	ug/L	2.4	0.73	2		06/20/19 13:49	75-27-4	
Bromoform	<7.9	ug/L	26.5	7.9	2		06/20/19 13:49	75-25-2	
Bromomethane	<1.9	ug/L	10.0	1.9	2		06/20/19 13:49	74-83-9	
Carbon tetrachloride	<0.33	ug/L	2.0	0.33	2		06/20/19 13:49	56-23-5	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189699

Sample: DUP-2 Lab ID: 40189699014 Collected: 06/18/19 00:00 Received: 06/19/19 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Chlorobenzene	<1.4	ug/L	4.7	1.4	2		06/20/19 13:49	108-90-7	
Chloroethane	<2.7	ug/L	10.0	2.7	2		06/20/19 13:49	75-00-3	
Chloroform	<2.5	ug/L	10.0	2.5	2		06/20/19 13:49	67-66-3	
Chloromethane	<4.4	ug/L	14.6	4.4	2		06/20/19 13:49	74-87-3	
Dibromochloromethane	<5.2	ug/L	17.3	5.2	2		06/20/19 13:49	124-48-1	
Dibromomethane	<1.9	ug/L	6.2	1.9	2		06/20/19 13:49	74-95-3	
Dichlorodifluoromethane	<1.0	ug/L	10.0	1.0	2		06/20/19 13:49	75-71-8	
Diisopropyl ether	<3.8	ug/L	12.6	3.8	2		06/20/19 13:49	108-20-3	
Ethylbenzene	<0.44	ug/L	2.0	0.44	2		06/20/19 13:49	100-41-4	
Hexachloro-1,3-butadiene	<2.4	ug/L	10.0	2.4	2		06/20/19 13:49	87-68-3	
Isopropylbenzene (Cumene)	<0.79	ug/L	10.0	0.79	2		06/20/19 13:49	98-82-8	
Methyl-tert-butyl ether	<2.5	ug/L	8.3	2.5	2		06/20/19 13:49	1634-04-4	
Methylene Chloride	<1.2	ug/L	10.0	1.2	2		06/20/19 13:49	75-09-2	
Naphthalene	<2.4	ug/L	10.0	2.4	2		06/20/19 13:49	91-20-3	
Styrene	<0.93	ug/L	3.1	0.93	2		06/20/19 13:49	100-42-5	
Tetrachloroethene	1.9J	ug/L	2.2	0.65	2		06/20/19 13:49	127-18-4	
Toluene	<0.34	ug/L	10.0	0.34	2		06/20/19 13:49	108-88-3	
Trichloroethene	491	ug/L	2.0	0.51	2		06/20/19 13:49	79-01-6	
Trichlorofluoromethane	<0.43	ug/L	2.0	0.43	2		06/20/19 13:49	75-69-4	
Vinyl chloride	13.6	ug/L	2.0	0.35	2		06/20/19 13:49	75-01-4	
cis-1,2-Dichloroethene	259	ug/L	2.0	0.54	2		06/20/19 13:49	156-59-2	
cis-1,3-Dichloropropene	<7.3	ug/L	24.2	7.3	2		06/20/19 13:49	10061-01-5	
m&p-Xylene	<0.93	ug/L	4.0	0.93	2		06/20/19 13:49	179601-23-1	
n-Butylbenzene	<1.4	ug/L	4.7	1.4	2		06/20/19 13:49	104-51-8	
n-Propylbenzene	<1.6	ug/L	10.0	1.6	2		06/20/19 13:49	103-65-1	
o-Xylene	<0.52	ug/L	2.0	0.52	2		06/20/19 13:49	95-47-6	
p-Isopropyltoluene	<1.6	ug/L	5.3	1.6	2		06/20/19 13:49	99-87-6	
sec-Butylbenzene	<1.7	ug/L	10.0	1.7	2		06/20/19 13:49	135-98-8	
tert-Butylbenzene	<0.61	ug/L	2.0	0.61	2		06/20/19 13:49	98-06-6	
trans-1,2-Dichloroethene	11.5	ug/L	7.3	2.2	2		06/20/19 13:49	156-60-5	
trans-1,3-Dichloropropene	<8.7	ug/L	29.1	8.7	2		06/20/19 13:49	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%	70-130		2		06/20/19 13:49	460-00-4	
Dibromofluoromethane (S)	111	%	70-130		2		06/20/19 13:49	1868-53-7	
Toluene-d8 (S)	101	%	70-130		2		06/20/19 13:49	2037-26-5	

Sample: MW-40 Lab ID: 40189699015 Collected: 06/18/19 10:59 Received: 06/19/19 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<1.1	ug/L	4.0	1.1	4		06/20/19 14:12	630-20-6	
1,1,1-Trichloroethane	8410	ug/L	100	24.5	100		06/21/19 07:53	71-55-6	
1,1,2,2-Tetrachloroethane	<1.1	ug/L	4.0	1.1	4		06/20/19 14:12	79-34-5	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE  
Pace Project No.: 40189699

**Sample: MW-40**      **Lab ID: 40189699015**      Collected: 06/18/19 10:59      Received: 06/19/19 09:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,2-Trichloroethane	4.7J	ug/L	20.0	2.2	4		06/20/19 14:12	79-00-5	
1,1-Dichloroethane	528	ug/L	4.0	1.1	4		06/20/19 14:12	75-34-3	
1,1-Dichloroethene	170	ug/L	4.0	0.98	4		06/20/19 14:12	75-35-4	
1,1-Dichloropropene	<2.2	ug/L	7.2	2.2	4		06/20/19 14:12	563-58-6	
1,2,3-Trichlorobenzene	<2.5	ug/L	20.0	2.5	4		06/20/19 14:12	87-61-6	
1,2,3-Trichloropropane	<2.4	ug/L	20.0	2.4	4		06/20/19 14:12	96-18-4	
1,2,4-Trichlorobenzene	<3.8	ug/L	20.0	3.8	4		06/20/19 14:12	120-82-1	
1,2,4-Trimethylbenzene	<3.4	ug/L	11.2	3.4	4		06/20/19 14:12	95-63-6	
1,2-Dibromo-3-chloropropane	<7.1	ug/L	23.5	7.1	4		06/20/19 14:12	96-12-8	
1,2-Dibromoethane (EDB)	<3.3	ug/L	11.1	3.3	4		06/20/19 14:12	106-93-4	
1,2-Dichlorobenzene	<2.8	ug/L	9.4	2.8	4		06/20/19 14:12	95-50-1	
1,2-Dichloroethane	<1.1	ug/L	4.0	1.1	4		06/20/19 14:12	107-06-2	
1,2-Dichloropropane	<1.1	ug/L	4.0	1.1	4		06/20/19 14:12	78-87-5	
1,3,5-Trimethylbenzene	<3.5	ug/L	11.6	3.5	4		06/20/19 14:12	108-67-8	
1,3-Dichlorobenzene	<2.5	ug/L	8.4	2.5	4		06/20/19 14:12	541-73-1	
1,3-Dichloropropane	<3.3	ug/L	11.0	3.3	4		06/20/19 14:12	142-28-9	
1,4-Dichlorobenzene	<3.8	ug/L	12.6	3.8	4		06/20/19 14:12	106-46-7	
2,2-Dichloropropane	<9.1	ug/L	30.2	9.1	4		06/20/19 14:12	594-20-7	
2-Chlorotoluene	<3.7	ug/L	20.0	3.7	4		06/20/19 14:12	95-49-8	
4-Chlorotoluene	<3.0	ug/L	10.1	3.0	4		06/20/19 14:12	106-43-4	
Benzene	<0.99	ug/L	4.0	0.99	4		06/20/19 14:12	71-43-2	
Bromobenzene	<0.96	ug/L	4.0	0.96	4		06/20/19 14:12	108-86-1	
Bromochloromethane	<1.4	ug/L	20.0	1.4	4		06/20/19 14:12	74-97-5	
Bromodichloromethane	<1.5	ug/L	4.8	1.5	4		06/20/19 14:12	75-27-4	
Bromoform	<15.9	ug/L	53.0	15.9	4		06/20/19 14:12	75-25-2	
Bromomethane	<3.9	ug/L	20.0	3.9	4		06/20/19 14:12	74-83-9	
Carbon tetrachloride	<0.66	ug/L	4.0	0.66	4		06/20/19 14:12	56-23-5	
Chlorobenzene	<2.8	ug/L	9.5	2.8	4		06/20/19 14:12	108-90-7	
Chloroethane	<5.4	ug/L	20.0	5.4	4		06/20/19 14:12	75-00-3	
Chloroform	<5.1	ug/L	20.0	5.1	4		06/20/19 14:12	67-66-3	
Chloromethane	<8.8	ug/L	29.2	8.8	4		06/20/19 14:12	74-87-3	
Dibromochloromethane	<10.4	ug/L	34.7	10.4	4		06/20/19 14:12	124-48-1	
Dibromomethane	<3.7	ug/L	12.5	3.7	4		06/20/19 14:12	74-95-3	
Dichlorodifluoromethane	<2.0	ug/L	20.0	2.0	4		06/20/19 14:12	75-71-8	
Diisopropyl ether	<7.6	ug/L	25.2	7.6	4		06/20/19 14:12	108-20-3	
Ethylbenzene	<0.87	ug/L	4.0	0.87	4		06/20/19 14:12	100-41-4	
Hexachloro-1,3-butadiene	<4.7	ug/L	20.0	4.7	4		06/20/19 14:12	87-68-3	
Isopropylbenzene (Cumene)	<1.6	ug/L	20.0	1.6	4		06/20/19 14:12	98-82-8	
Methyl-tert-butyl ether	<5.0	ug/L	16.6	5.0	4		06/20/19 14:12	1634-04-4	
Methylene Chloride	<2.3	ug/L	20.0	2.3	4		06/20/19 14:12	75-09-2	
Naphthalene	<4.7	ug/L	20.0	4.7	4		06/20/19 14:12	91-20-3	
Styrene	<1.9	ug/L	6.2	1.9	4		06/20/19 14:12	100-42-5	
Tetrachloroethene	3.2J	ug/L	4.4	1.3	4		06/20/19 14:12	127-18-4	
Toluene	<0.69	ug/L	20.0	0.69	4		06/20/19 14:12	108-88-3	
Trichloroethene	248	ug/L	4.0	1.0	4		06/20/19 14:12	79-01-6	
Trichlorofluoromethane	<0.86	ug/L	4.0	0.86	4		06/20/19 14:12	75-69-4	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189699

Sample: MW-40 Lab ID: 40189699015 Collected: 06/18/19 10:59 Received: 06/19/19 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Vinyl chloride	0.90J	ug/L	4.0	0.70	4		06/20/19 14:12	75-01-4	
cis-1,2-Dichloroethene	508	ug/L	4.0	1.1	4		06/20/19 14:12	156-59-2	
cis-1,3-Dichloropropene	<14.5	ug/L	48.4	14.5	4		06/20/19 14:12	10061-01-5	
m&p-Xylene	<1.9	ug/L	8.0	1.9	4		06/20/19 14:12	179601-23-1	
n-Butylbenzene	<2.8	ug/L	9.4	2.8	4		06/20/19 14:12	104-51-8	
n-Propylbenzene	<3.2	ug/L	20.0	3.2	4		06/20/19 14:12	103-65-1	
o-Xylene	<1.0	ug/L	4.0	1.0	4		06/20/19 14:12	95-47-6	
p-Isopropyltoluene	<3.2	ug/L	10.7	3.2	4		06/20/19 14:12	99-87-6	
sec-Butylbenzene	<3.4	ug/L	20.0	3.4	4		06/20/19 14:12	135-98-8	
tert-Butylbenzene	<1.2	ug/L	4.1	1.2	4		06/20/19 14:12	98-06-6	
trans-1,2-Dichloroethene	<4.4	ug/L	14.5	4.4	4		06/20/19 14:12	156-60-5	
trans-1,3-Dichloropropene	<17.5	ug/L	58.3	17.5	4		06/20/19 14:12	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	93	%	70-130		4		06/20/19 14:12	460-00-4	
Dibromofluoromethane (S)	113	%	70-130		4		06/20/19 14:12	1868-53-7	
Toluene-d8 (S)	100	%	70-130		4		06/20/19 14:12	2037-26-5	

Sample: MW-18R Lab ID: 40189699016 Collected: 06/18/19 13:50 Received: 06/19/19 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<5.4	ug/L	20.0	5.4	20		06/20/19 14:35	630-20-6	
1,1,1-Trichloroethane	<4.9	ug/L	20.0	4.9	20		06/21/19 07:31	71-55-6	
1,1,2,2-Tetrachloroethane	<5.5	ug/L	20.0	5.5	20		06/20/19 14:35	79-34-5	
1,1,2-Trichloroethane	<11.0	ug/L	100	11.0	20		06/20/19 14:35	79-00-5	
1,1-Dichloroethane	6.7J	ug/L	20.0	5.5	20		06/20/19 14:35	75-34-3	
1,1-Dichloroethene	10.2J	ug/L	20.0	4.9	20		06/20/19 14:35	75-35-4	
1,1-Dichloropropene	<10.8	ug/L	36.0	10.8	20		06/20/19 14:35	563-58-6	
1,2,3-Trichlorobenzene	<12.5	ug/L	100	12.5	20		06/20/19 14:35	87-61-6	
1,2,3-Trichloropropane	<11.8	ug/L	100	11.8	20		06/20/19 14:35	96-18-4	
1,2,4-Trichlorobenzene	<19.0	ug/L	100	19.0	20		06/20/19 14:35	120-82-1	
1,2,4-Trimethylbenzene	<16.8	ug/L	56.0	16.8	20		06/20/19 14:35	95-63-6	
1,2-Dibromo-3-chloropropane	<35.3	ug/L	118	35.3	20		06/20/19 14:35	96-12-8	
1,2-Dibromoethane (EDB)	<16.6	ug/L	55.3	16.6	20		06/20/19 14:35	106-93-4	
1,2-Dichlorobenzene	<14.1	ug/L	47.0	14.1	20		06/20/19 14:35	95-50-1	
1,2-Dichloroethane	<5.6	ug/L	20.0	5.6	20		06/20/19 14:35	107-06-2	
1,2-Dichloropropane	<5.7	ug/L	20.0	5.7	20		06/20/19 14:35	78-87-5	
1,3,5-Trimethylbenzene	<17.5	ug/L	58.2	17.5	20		06/20/19 14:35	108-67-8	
1,3-Dichlorobenzene	<12.6	ug/L	41.9	12.6	20		06/20/19 14:35	541-73-1	
1,3-Dichloropropane	<16.5	ug/L	55.1	16.5	20		06/20/19 14:35	142-28-9	
1,4-Dichlorobenzene	<18.9	ug/L	62.9	18.9	20		06/20/19 14:35	106-46-7	
2,2-Dichloropropane	<45.3	ug/L	151	45.3	20		06/20/19 14:35	594-20-7	
2-Chlorotoluene	<18.5	ug/L	100	18.5	20		06/20/19 14:35	95-49-8	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189699

**Sample: MW-18R**      **Lab ID: 40189699016**      Collected: 06/18/19 13:50      Received: 06/19/19 09:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
4-Chlorotoluene	<15.1	ug/L	50.4	15.1	20		06/20/19 14:35	106-43-4	
Benzene	<4.9	ug/L	20.0	4.9	20		06/20/19 14:35	71-43-2	
Bromobenzene	<4.8	ug/L	20.0	4.8	20		06/20/19 14:35	108-86-1	
Bromochloromethane	<7.2	ug/L	100	7.2	20		06/20/19 14:35	74-97-5	
Bromodichloromethane	<7.3	ug/L	24.2	7.3	20		06/20/19 14:35	75-27-4	
Bromoform	<79.4	ug/L	265	79.4	20		06/20/19 14:35	75-25-2	
Bromomethane	<19.4	ug/L	100	19.4	20		06/20/19 14:35	74-83-9	
Carbon tetrachloride	<3.3	ug/L	20.0	3.3	20		06/20/19 14:35	56-23-5	
Chlorobenzene	<14.2	ug/L	47.4	14.2	20		06/20/19 14:35	108-90-7	
Chloroethane	<26.8	ug/L	100	26.8	20		06/20/19 14:35	75-00-3	
Chloroform	<25.5	ug/L	100	25.5	20		06/20/19 14:35	67-66-3	
Chloromethane	<43.8	ug/L	146	43.8	20		06/20/19 14:35	74-87-3	
Dibromochloromethane	<52.0	ug/L	173	52.0	20		06/20/19 14:35	124-48-1	
Dibromomethane	<18.7	ug/L	62.5	18.7	20		06/20/19 14:35	74-95-3	
Dichlorodifluoromethane	<10	ug/L	100	10	20		06/20/19 14:35	75-71-8	
Diisopropyl ether	<37.8	ug/L	126	37.8	20		06/20/19 14:35	108-20-3	
Ethylbenzene	<4.4	ug/L	20.0	4.4	20		06/20/19 14:35	100-41-4	
Hexachloro-1,3-butadiene	<23.6	ug/L	100	23.6	20		06/20/19 14:35	87-68-3	
Isopropylbenzene (Cumene)	<7.9	ug/L	100	7.9	20		06/20/19 14:35	98-82-8	
Methyl-tert-butyl ether	<24.9	ug/L	83.1	24.9	20		06/20/19 14:35	1634-04-4	
Methylene Chloride	<11.6	ug/L	100	11.6	20		06/20/19 14:35	75-09-2	
Naphthalene	<23.5	ug/L	100	23.5	20		06/20/19 14:35	91-20-3	
Styrene	<9.3	ug/L	31.0	9.3	20		06/20/19 14:35	100-42-5	
Tetrachloroethene	<6.5	ug/L	21.8	6.5	20		06/20/19 14:35	127-18-4	
Toluene	<3.4	ug/L	100	3.4	20		06/20/19 14:35	108-88-3	
Trichloroethene	5150	ug/L	20.0	5.1	20		06/20/19 14:35	79-01-6	
Trichlorofluoromethane	<4.3	ug/L	20.0	4.3	20		06/20/19 14:35	75-69-4	
Vinyl chloride	33.8	ug/L	20.0	3.5	20		06/20/19 14:35	75-01-4	
cis-1,2-Dichloroethene	2390	ug/L	20.0	5.4	20		06/20/19 14:35	156-59-2	
cis-1,3-Dichloropropene	<72.6	ug/L	242	72.6	20		06/20/19 14:35	10061-01-5	
m&p-Xylene	<9.3	ug/L	40.0	9.3	20		06/20/19 14:35	179601-23-1	
n-Butylbenzene	<14.2	ug/L	47.2	14.2	20		06/20/19 14:35	104-51-8	
n-Propylbenzene	<16.2	ug/L	100	16.2	20		06/20/19 14:35	103-65-1	
o-Xylene	<5.2	ug/L	20.0	5.2	20		06/20/19 14:35	95-47-6	
p-Isopropyltoluene	<16.0	ug/L	53.3	16.0	20		06/20/19 14:35	99-87-6	
sec-Butylbenzene	<17.0	ug/L	100	17.0	20		06/20/19 14:35	135-98-8	
tert-Butylbenzene	<6.1	ug/L	20.3	6.1	20		06/20/19 14:35	98-06-6	
trans-1,2-Dichloroethene	23.0J	ug/L	72.7	21.8	20		06/20/19 14:35	156-60-5	
trans-1,3-Dichloropropene	<87.4	ug/L	291	87.4	20		06/20/19 14:35	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	92	%	70-130		20		06/20/19 14:35	460-00-4	
Dibromofluoromethane (S)	117	%	70-130		20		06/20/19 14:35	1868-53-7	
Toluene-d8 (S)	99	%	70-130		20		06/20/19 14:35	2037-26-5	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189699

**Sample: MW-39**      **Lab ID: 40189699017**      Collected: 06/18/19 10:20      Received: 06/19/19 09:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<2.7	ug/L	10.0	2.7	10		06/20/19 14:58	630-20-6	
1,1,1-Trichloroethane	120	ug/L	10.0	2.4	10		06/20/19 14:58	71-55-6	
1,1,2,2-Tetrachloroethane	<2.8	ug/L	10.0	2.8	10		06/20/19 14:58	79-34-5	
1,1,2-Trichloroethane	<5.5	ug/L	50.0	5.5	10		06/20/19 14:58	79-00-5	
1,1-Dichloroethane	45.2	ug/L	10.0	2.7	10		06/20/19 14:58	75-34-3	
1,1-Dichloroethene	33.4	ug/L	10.0	2.4	10		06/20/19 14:58	75-35-4	
1,1-Dichloropropene	<5.4	ug/L	18.0	5.4	10		06/20/19 14:58	563-58-6	
1,2,3-Trichlorobenzene	<6.3	ug/L	50.0	6.3	10		06/20/19 14:58	87-61-6	
1,2,3-Trichloropropane	<5.9	ug/L	50.0	5.9	10		06/20/19 14:58	96-18-4	
1,2,4-Trichlorobenzene	<9.5	ug/L	50.0	9.5	10		06/20/19 14:58	120-82-1	
1,2,4-Trimethylbenzene	<8.4	ug/L	28.0	8.4	10		06/20/19 14:58	95-63-6	
1,2-Dibromo-3-chloropropane	<17.6	ug/L	58.8	17.6	10		06/20/19 14:58	96-12-8	
1,2-Dibromoethane (EDB)	<8.3	ug/L	27.6	8.3	10		06/20/19 14:58	106-93-4	
1,2-Dichlorobenzene	<7.1	ug/L	23.5	7.1	10		06/20/19 14:58	95-50-1	
1,2-Dichloroethane	<2.8	ug/L	10.0	2.8	10		06/20/19 14:58	107-06-2	
1,2-Dichloropropane	<2.8	ug/L	10.0	2.8	10		06/20/19 14:58	78-87-5	
1,3,5-Trimethylbenzene	<8.7	ug/L	29.1	8.7	10		06/20/19 14:58	108-67-8	
1,3-Dichlorobenzene	<6.3	ug/L	20.9	6.3	10		06/20/19 14:58	541-73-1	
1,3-Dichloropropane	<8.3	ug/L	27.5	8.3	10		06/20/19 14:58	142-28-9	
1,4-Dichlorobenzene	<9.4	ug/L	31.5	9.4	10		06/20/19 14:58	106-46-7	
2,2-Dichloropropane	<22.7	ug/L	75.5	22.7	10		06/20/19 14:58	594-20-7	
2-Chlorotoluene	<9.3	ug/L	50.0	9.3	10		06/20/19 14:58	95-49-8	
4-Chlorotoluene	<7.6	ug/L	25.2	7.6	10		06/20/19 14:58	106-43-4	
Benzene	<2.5	ug/L	10.0	2.5	10		06/20/19 14:58	71-43-2	
Bromobenzene	<2.4	ug/L	10.0	2.4	10		06/20/19 14:58	108-86-1	
Bromochloromethane	<3.6	ug/L	50.0	3.6	10		06/20/19 14:58	74-97-5	
Bromodichloromethane	<3.6	ug/L	12.1	3.6	10		06/20/19 14:58	75-27-4	
Bromoform	<39.7	ug/L	132	39.7	10		06/20/19 14:58	75-25-2	
Bromomethane	<9.7	ug/L	50.0	9.7	10		06/20/19 14:58	74-83-9	
Carbon tetrachloride	<1.7	ug/L	10.0	1.7	10		06/20/19 14:58	56-23-5	
Chlorobenzene	<7.1	ug/L	23.7	7.1	10		06/20/19 14:58	108-90-7	
Chloroethane	<13.4	ug/L	50.0	13.4	10		06/20/19 14:58	75-00-3	
Chloroform	<12.7	ug/L	50.0	12.7	10		06/20/19 14:58	67-66-3	
Chloromethane	<21.9	ug/L	73.0	21.9	10		06/20/19 14:58	74-87-3	
Dibromochloromethane	<26.0	ug/L	86.7	26.0	10		06/20/19 14:58	124-48-1	
Dibromomethane	<9.4	ug/L	31.2	9.4	10		06/20/19 14:58	74-95-3	
Dichlorodifluoromethane	<5.0	ug/L	50.0	5.0	10		06/20/19 14:58	75-71-8	
Diisopropyl ether	<18.9	ug/L	62.9	18.9	10		06/20/19 14:58	108-20-3	
Ethylbenzene	<2.2	ug/L	10.0	2.2	10		06/20/19 14:58	100-41-4	
Hexachloro-1,3-butadiene	<11.8	ug/L	50.0	11.8	10		06/20/19 14:58	87-68-3	
Isopropylbenzene (Cumene)	<3.9	ug/L	50.0	3.9	10		06/20/19 14:58	98-82-8	
Methyl-tert-butyl ether	<12.5	ug/L	41.5	12.5	10		06/20/19 14:58	1634-04-4	
Methylene Chloride	<5.8	ug/L	50.0	5.8	10		06/20/19 14:58	75-09-2	
Naphthalene	<11.8	ug/L	50.0	11.8	10		06/20/19 14:58	91-20-3	
Styrene	<4.7	ug/L	15.5	4.7	10		06/20/19 14:58	100-42-5	
Tetrachloroethene	<3.3	ug/L	10.9	3.3	10		06/20/19 14:58	127-18-4	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189699

**Sample: MW-39**      **Lab ID: 40189699017**      Collected: 06/18/19 10:20      Received: 06/19/19 09:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Toluene	<1.7	ug/L	50.0	1.7	10		06/20/19 14:58	108-88-3	
Trichloroethene	839	ug/L	10.0	2.6	10		06/20/19 14:58	79-01-6	
Trichlorofluoromethane	<2.1	ug/L	10.0	2.1	10		06/20/19 14:58	75-69-4	
Vinyl chloride	3.1J	ug/L	10.0	1.7	10		06/20/19 14:58	75-01-4	
cis-1,2-Dichloroethene	200	ug/L	10.0	2.7	10		06/20/19 14:58	156-59-2	
cis-1,3-Dichloropropene	<36.3	ug/L	121	36.3	10		06/20/19 14:58	10061-01-5	
m&p-Xylene	<4.7	ug/L	20.0	4.7	10		06/20/19 14:58	179601-23-1	
n-Butylbenzene	<7.1	ug/L	23.6	7.1	10		06/20/19 14:58	104-51-8	
n-Propylbenzene	<8.1	ug/L	50.0	8.1	10		06/20/19 14:58	103-65-1	
o-Xylene	<2.6	ug/L	10.0	2.6	10		06/20/19 14:58	95-47-6	
p-Isopropyltoluene	<8.0	ug/L	26.7	8.0	10		06/20/19 14:58	99-87-6	
sec-Butylbenzene	<8.5	ug/L	50.0	8.5	10		06/20/19 14:58	135-98-8	
tert-Butylbenzene	<3.0	ug/L	10.1	3.0	10		06/20/19 14:58	98-06-6	
trans-1,2-Dichloroethene	31.3J	ug/L	36.4	10.9	10		06/20/19 14:58	156-60-5	
trans-1,3-Dichloropropene	<43.7	ug/L	146	43.7	10		06/20/19 14:58	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	95	%	70-130		10		06/20/19 14:58	460-00-4	
Dibromofluoromethane (S)	116	%	70-130		10		06/20/19 14:58	1868-53-7	
Toluene-d8 (S)	99	%	70-130		10		06/20/19 14:58	2037-26-5	

**Sample: TRIP-1**      **Lab ID: 40189699018**      Collected: 06/18/19 00:00      Received: 06/19/19 09:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		06/20/19 11:54	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/20/19 11:54	71-55-6	
1,1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		06/20/19 11:54	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		06/20/19 11:54	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		06/20/19 11:54	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/20/19 11:54	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		06/20/19 11:54	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		06/20/19 11:54	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		06/20/19 11:54	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/20/19 11:54	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		06/20/19 11:54	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		06/20/19 11:54	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		06/20/19 11:54	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		06/20/19 11:54	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		06/20/19 11:54	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		06/20/19 11:54	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		06/20/19 11:54	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		06/20/19 11:54	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		06/20/19 11:54	142-28-9	

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## ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE  
Pace Project No.: 40189699

**Sample:** TRIP-1      **Lab ID:** 40189699018      Collected: 06/18/19 00:00      Received: 06/19/19 09:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		06/20/19 11:54	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		06/20/19 11:54	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		06/20/19 11:54	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		06/20/19 11:54	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		06/20/19 11:54	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		06/20/19 11:54	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/20/19 11:54	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		06/20/19 11:54	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		06/20/19 11:54	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		06/20/19 11:54	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		06/20/19 11:54	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		06/20/19 11:54	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		06/20/19 11:54	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		06/20/19 11:54	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		06/20/19 11:54	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		06/20/19 11:54	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		06/20/19 11:54	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		06/20/19 11:54	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		06/20/19 11:54	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		06/20/19 11:54	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		06/20/19 11:54	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		06/20/19 11:54	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		06/20/19 11:54	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		06/20/19 11:54	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		06/20/19 11:54	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		06/20/19 11:54	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		06/20/19 11:54	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		06/20/19 11:54	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		06/20/19 11:54	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		06/20/19 11:54	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		06/20/19 11:54	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		06/20/19 11:54	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		06/20/19 11:54	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		06/20/19 11:54	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		06/20/19 11:54	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		06/20/19 11:54	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		06/20/19 11:54	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		06/20/19 11:54	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		06/20/19 11:54	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		06/20/19 11:54	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		06/20/19 11:54	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		06/20/19 11:54	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	92	%	70-130		1		06/20/19 11:54	460-00-4	
Dibromofluoromethane (S)	110	%	70-130		1		06/20/19 11:54	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		06/20/19 11:54	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189699

**Sample: TRIP-2** Lab ID: **40189699019** Collected: 06/18/19 00:00 Received: 06/19/19 09:45 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		06/20/19 19:17	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/20/19 19:17	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		06/20/19 19:17	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		06/20/19 19:17	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		06/20/19 19:17	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/20/19 19:17	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		06/20/19 19:17	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		06/20/19 19:17	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		06/20/19 19:17	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/20/19 19:17	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		06/20/19 19:17	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		06/20/19 19:17	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		06/20/19 19:17	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		06/20/19 19:17	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		06/20/19 19:17	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		06/20/19 19:17	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		06/20/19 19:17	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		06/20/19 19:17	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		06/20/19 19:17	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		06/20/19 19:17	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		06/20/19 19:17	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		06/20/19 19:17	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		06/20/19 19:17	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		06/20/19 19:17	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		06/20/19 19:17	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/20/19 19:17	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		06/20/19 19:17	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		06/20/19 19:17	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		06/20/19 19:17	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		06/20/19 19:17	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		06/20/19 19:17	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		06/20/19 19:17	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		06/20/19 19:17	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		06/20/19 19:17	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		06/20/19 19:17	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		06/20/19 19:17	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		06/20/19 19:17	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		06/20/19 19:17	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		06/20/19 19:17	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		06/20/19 19:17	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		06/20/19 19:17	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		06/20/19 19:17	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		06/20/19 19:17	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		06/20/19 19:17	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		06/20/19 19:17	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		06/20/19 19:17	127-18-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189699

**Sample: TRIP-2**      **Lab ID: 40189699019**      Collected: 06/18/19 00:00      Received: 06/19/19 09:45      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
Toluene	<0.17	ug/L	5.0	0.17	1		06/20/19 19:17	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		06/20/19 19:17	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		06/20/19 19:17	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		06/20/19 19:17	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		06/20/19 19:17	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		06/20/19 19:17	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		06/20/19 19:17	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		06/20/19 19:17	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		06/20/19 19:17	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		06/20/19 19:17	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		06/20/19 19:17	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		06/20/19 19:17	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		06/20/19 19:17	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		06/20/19 19:17	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		06/20/19 19:17	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		1		06/20/19 19:17	460-00-4	
Dibromofluoromethane (S)	114	%	70-130		1		06/20/19 19:17	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		06/20/19 19:17	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE  
Pace Project No.: 40189699

QC Batch: 325058 Analysis Method: EPA 8015B Modified  
QC Batch Method: EPA 8015B Modified Analysis Description: Methane, Ethane, Ethene GCV  
Associated Lab Samples: 40189699002, 40189699003, 40189699005, 40189699006, 40189699008, 40189699011, 40189699012, 40189699013

METHOD BLANK: 1887115 Matrix: Water  
Associated Lab Samples: 40189699002, 40189699003, 40189699005, 40189699006, 40189699008, 40189699011, 40189699012, 40189699013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	<0.58	5.6	06/20/19 07:54	
Ethene	ug/L	<0.52	5.0	06/20/19 07:54	

LABORATORY CONTROL SAMPLE & LCSD: 1887116 1887117

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	53.6	49.6	50.9	93	95	80-120	3	20	
Ethene	ug/L	50	46.0	47.2	92	94	80-120	3	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1887118 1887119

Parameter	Units	40189400002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Ethane	ug/L	<23.0	2140	2140	2030	2150	95	100	80-120	6	20	
Ethene	ug/L	<21.0	2000	2000	1870	1980	94	99	80-120	5	20	

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### QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE  
Pace Project No.: 40189699

QC Batch: 325662 Analysis Method: EPA 6010  
QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved  
Associated Lab Samples: 40189699002, 40189699003, 40189699005, 40189699006, 40189699008, 40189699011, 40189699012, 40189699013

METHOD BLANK: 1890747 Matrix: Water  
Associated Lab Samples: 40189699002, 40189699003, 40189699005, 40189699006, 40189699008, 40189699011, 40189699012, 40189699013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Dissolved	ug/L	<35.4	118	06/25/19 22:23	
Manganese, Dissolved	ug/L	<1.1	5.0	06/25/19 22:23	

LABORATORY CONTROL SAMPLE: 1890748

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	ug/L	5000	4480	90	80-120	
Manganese, Dissolved	ug/L	500	456	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1890749 1890750

Parameter	Units	40189699002 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	7020	5000	5000	11400	11400	87	87	75-125	0	20	
Manganese, Dissolved	ug/L	2260	500	500	2680	2670	84	82	75-125	0	20	

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### QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189699

QC Batch: 325042 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV  
 Associated Lab Samples: 40189699001, 40189699002, 40189699003, 40189699005, 40189699006, 40189699007, 40189699008,  
 40189699009, 40189699010, 40189699011, 40189699012, 40189699013, 40189699014, 40189699015,  
 40189699016, 40189699017, 40189699018

METHOD BLANK: 1887085 Matrix: Water

Associated Lab Samples: 40189699001, 40189699002, 40189699003, 40189699005, 40189699006, 40189699007, 40189699008,  
 40189699009, 40189699010, 40189699011, 40189699012, 40189699013, 40189699014, 40189699015,  
 40189699016, 40189699017, 40189699018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	06/20/19 08:51	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	06/20/19 08:51	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	06/20/19 08:51	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	06/20/19 08:51	
1,1-Dichloroethane	ug/L	<0.27	1.0	06/20/19 08:51	
1,1-Dichloroethene	ug/L	<0.24	1.0	06/20/19 08:51	
1,1-Dichloropropene	ug/L	<0.54	1.8	06/20/19 08:51	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	06/20/19 08:51	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	06/20/19 08:51	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	06/20/19 08:51	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	06/20/19 08:51	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	06/20/19 08:51	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	06/20/19 08:51	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	06/20/19 08:51	
1,2-Dichloroethane	ug/L	<0.28	1.0	06/20/19 08:51	
1,2-Dichloropropane	ug/L	<0.28	1.0	06/20/19 08:51	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	06/20/19 08:51	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	06/20/19 08:51	
1,3-Dichloropropane	ug/L	<0.83	2.8	06/20/19 08:51	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	06/20/19 08:51	
2,2-Dichloropropane	ug/L	<2.3	7.6	06/20/19 08:51	
2-Chlorotoluene	ug/L	<0.93	5.0	06/20/19 08:51	
4-Chlorotoluene	ug/L	<0.76	2.5	06/20/19 08:51	
Benzene	ug/L	<0.25	1.0	06/20/19 08:51	
Bromobenzene	ug/L	<0.24	1.0	06/20/19 08:51	
Bromochloromethane	ug/L	<0.36	5.0	06/20/19 08:51	
Bromodichloromethane	ug/L	<0.36	1.2	06/20/19 08:51	
Bromoform	ug/L	<4.0	13.2	06/20/19 08:51	
Bromomethane	ug/L	<0.97	5.0	06/20/19 08:51	
Carbon tetrachloride	ug/L	<0.17	1.0	06/20/19 08:51	
Chlorobenzene	ug/L	<0.71	2.4	06/20/19 08:51	
Chloroethane	ug/L	<1.3	5.0	06/20/19 08:51	
Chloroform	ug/L	<1.3	5.0	06/20/19 08:51	
Chloromethane	ug/L	<2.2	7.3	06/20/19 08:51	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	06/20/19 08:51	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	06/20/19 08:51	
Dibromochloromethane	ug/L	<2.6	8.7	06/20/19 08:51	
Dibromomethane	ug/L	<0.94	3.1	06/20/19 08:51	

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### QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189699

METHOD BLANK: 1887085

Matrix: Water

Associated Lab Samples: 40189699001, 40189699002, 40189699003, 40189699005, 40189699006, 40189699007, 40189699008, 40189699009, 40189699010, 40189699011, 40189699012, 40189699013, 40189699014, 40189699015, 40189699016, 40189699017, 40189699018

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	<0.50	5.0	06/20/19 08:51	
Diisopropyl ether	ug/L	<1.9	6.3	06/20/19 08:51	
Ethylbenzene	ug/L	<0.22	1.0	06/20/19 08:51	
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	06/20/19 08:51	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	06/20/19 08:51	
m&p-Xylene	ug/L	<0.47	2.0	06/20/19 08:51	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	06/20/19 08:51	
Methylene Chloride	ug/L	<0.58	5.0	06/20/19 08:51	
n-Butylbenzene	ug/L	<0.71	2.4	06/20/19 08:51	
n-Propylbenzene	ug/L	<0.81	5.0	06/20/19 08:51	
Naphthalene	ug/L	<1.2	5.0	06/20/19 08:51	
o-Xylene	ug/L	<0.26	1.0	06/20/19 08:51	
p-Isopropyltoluene	ug/L	<0.80	2.7	06/20/19 08:51	
sec-Butylbenzene	ug/L	<0.85	5.0	06/20/19 08:51	
Styrene	ug/L	<0.47	1.6	06/20/19 08:51	
tert-Butylbenzene	ug/L	<0.30	1.0	06/20/19 08:51	
Tetrachloroethene	ug/L	<0.33	1.1	06/20/19 08:51	
Toluene	ug/L	<0.17	5.0	06/20/19 08:51	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	06/20/19 08:51	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	06/20/19 08:51	
Trichloroethene	ug/L	<0.26	1.0	06/20/19 08:51	
Trichlorofluoromethane	ug/L	<0.21	1.0	06/20/19 08:51	
Vinyl chloride	ug/L	<0.17	1.0	06/20/19 08:51	
4-Bromofluorobenzene (S)	%	96	70-130	06/20/19 08:51	
Dibromofluoromethane (S)	%	105	70-130	06/20/19 08:51	
Toluene-d8 (S)	%	98	70-130	06/20/19 08:51	

LABORATORY CONTROL SAMPLE: 1887086

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	52.3	105	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	51.6	103	70-130	
1,1,2-Trichloroethane	ug/L	50	50.8	102	70-130	
1,1-Dichloroethane	ug/L	50	51.0	102	73-150	
1,1-Dichloroethene	ug/L	50	47.6	95	73-138	
1,2,4-Trichlorobenzene	ug/L	50	39.5	79	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	44.7	89	64-129	
1,2-Dibromoethane (EDB)	ug/L	50	47.0	94	70-130	
1,2-Dichlorobenzene	ug/L	50	45.7	91	70-130	
1,2-Dichloroethane	ug/L	50	55.6	111	75-140	
1,2-Dichloropropane	ug/L	50	55.1	110	73-135	
1,3-Dichlorobenzene	ug/L	50	46.3	93	70-130	

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### QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189699

LABORATORY CONTROL SAMPLE: 1887086

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	49.2	98	70-130	
Benzene	ug/L	50	53.5	107	70-130	
Bromodichloromethane	ug/L	50	53.0	106	70-130	
Bromoform	ug/L	50	47.4	95	68-129	
Bromomethane	ug/L	50	33.0	66	18-159	
Carbon tetrachloride	ug/L	50	50.7	101	70-130	
Chlorobenzene	ug/L	50	49.6	99	70-130	
Chloroethane	ug/L	50	45.6	91	53-147	
Chloroform	ug/L	50	53.2	106	74-136	
Chloromethane	ug/L	50	37.7	75	29-115	
cis-1,2-Dichloroethene	ug/L	50	49.4	99	70-130	
cis-1,3-Dichloropropene	ug/L	50	51.7	103	70-130	
Dibromochloromethane	ug/L	50	47.5	95	70-130	
Dichlorodifluoromethane	ug/L	50	30.4	61	10-130	
Ethylbenzene	ug/L	50	51.8	104	80-124	
Isopropylbenzene (Cumene)	ug/L	50	50.4	101	70-130	
m&p-Xylene	ug/L	100	106	106	70-130	
Methyl-tert-butyl ether	ug/L	50	50.0	100	54-137	
Methylene Chloride	ug/L	50	47.6	95	73-138	
o-Xylene	ug/L	50	50.9	102	70-130	
Styrene	ug/L	50	52.9	106	70-130	
Tetrachloroethene	ug/L	50	46.5	93	70-130	
Toluene	ug/L	50	51.9	104	80-126	
trans-1,2-Dichloroethene	ug/L	50	44.5	89	73-145	
trans-1,3-Dichloropropene	ug/L	50	46.0	92	70-130	
Trichloroethene	ug/L	50	51.9	104	70-130	
Trichlorofluoromethane	ug/L	50	50.7	101	76-147	
Vinyl chloride	ug/L	50	45.2	90	51-120	
4-Bromofluorobenzene (S)	%			98	70-130	
Dibromofluoromethane (S)	%			106	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1887162 1887163

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40189699002 Result	Spike Conc.	Spike Conc.	Conc.								
1,1,1-Trichloroethane	ug/L	<0.24	50	50	52.7	51.9	105	104	70-130	2	20		
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	54.4	52.2	109	104	70-130	4	20		
1,1,2-Trichloroethane	ug/L	<0.55	50	50	50.4	52.9	101	106	70-137	5	20		
1,1-Dichloroethane	ug/L	0.73J	50	50	50.4	50.6	99	100	73-153	0	20		
1,1-Dichloroethene	ug/L	0.93J	50	50	48.1	43.8	94	86	73-138	9	20		
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	43.0	41.2	86	82	70-130	4	20		
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	49.3	47.7	99	95	58-129	3	20		
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	46.3	47.5	93	95	70-130	3	20		

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### QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189699

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1887162		1887163		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40189699002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
1,2-Dichlorobenzene	ug/L	<0.71	50	50	47.5	45.0	95	90	70-130	5	20		
1,2-Dichloroethane	ug/L	<0.28	50	50	56.0	56.8	112	114	75-140	1	20		
1,2-Dichloropropane	ug/L	<0.28	50	50	56.1	57.4	112	115	71-138	2	20		
1,3-Dichlorobenzene	ug/L	<0.63	50	50	47.9	45.5	96	91	70-130	5	20		
1,4-Dichlorobenzene	ug/L	<0.94	50	50	50.1	47.1	100	94	70-130	6	20		
Benzene	ug/L	<0.25	50	50	52.2	53.3	104	107	70-130	2	20		
Bromodichloromethane	ug/L	<0.36	50	50	52.8	53.4	106	107	70-130	1	20		
Bromoform	ug/L	<4.0	50	50	50.1	49.8	100	100	68-129	1	20		
Bromomethane	ug/L	<0.97	50	50	30.1	28.8	60	58	15-170	5	20		
Carbon tetrachloride	ug/L	<0.17	50	50	51.6	50.8	103	102	70-130	1	20		
Chlorobenzene	ug/L	<0.71	50	50	50.5	50.6	101	101	70-130	0	20		
Chloroethane	ug/L	<1.3	50	50	52.7	48.1	105	96	51-148	9	20		
Chloroform	ug/L	<1.3	50	50	52.8	52.1	106	104	74-136	1	20		
Chloromethane	ug/L	<2.2	50	50	37.1	40.2	74	80	23-115	8	20		
cis-1,2-Dichloroethene	ug/L	16.5	50	50	65.5	65.6	98	98	70-131	0	20		
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	51.9	52.3	104	105	70-130	1	20		
Dibromochloromethane	ug/L	<2.6	50	50	46.8	48.4	94	97	70-130	4	20		
Dichlorodifluoromethane	ug/L	<0.50	50	50	27.2	27.2	54	54	10-132	0	20		
Ethylbenzene	ug/L	<0.22	50	50	52.6	52.0	105	104	80-125	1	20		
Isopropylbenzene (Cumene)	ug/L	<0.39	50	50	51.4	50.4	103	101	70-130	2	20		
m&p-Xylene	ug/L	<0.47	100	100	110	106	110	106	70-130	4	20		
Methyl-tert-butyl ether	ug/L	<1.2	50	50	49.6	50.4	99	101	51-145	2	20		
Methylene Chloride	ug/L	<0.58	50	50	48.3	49.0	97	98	73-140	1	20		
o-Xylene	ug/L	<0.26	50	50	51.1	51.1	102	102	70-130	0	20		
Styrene	ug/L	<0.47	50	50	53.4	53.2	107	106	70-130	0	20		
Tetrachloroethene	ug/L	2.0	50	50	50.1	50.0	96	96	70-130	0	20		
Toluene	ug/L	<0.17	50	50	51.5	51.8	103	104	80-131	1	20		
trans-1,2-Dichloroethene	ug/L	9.4	50	50	54.6	53.3	90	88	73-148	2	20		
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	46.4	47.4	93	95	70-130	2	20		
Trichloroethene	ug/L	3.0	50	50	57.2	57.4	108	109	70-130	0	20		
Trichlorofluoromethane	ug/L	<0.21	50	50	49.0	51.1	98	102	74-147	4	20		
Vinyl chloride	ug/L	36.4	50	50	72.7	76.8	73	81	41-129	5	20		
4-Bromofluorobenzene (S)	%						99	100	70-130				
Dibromofluoromethane (S)	%						102	105	70-130				
Toluene-d8 (S)	%						99	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.: 40189699

QC Batch: 325043 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV  
Associated Lab Samples: 40189699019

METHOD BLANK: 1887087 Matrix: Water  
Associated Lab Samples: 40189699019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	06/20/19 09:10	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	06/20/19 09:10	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	06/20/19 09:10	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	06/20/19 09:10	
1,1-Dichloroethane	ug/L	<0.27	1.0	06/20/19 09:10	
1,1-Dichloroethene	ug/L	<0.24	1.0	06/20/19 09:10	
1,1-Dichloropropene	ug/L	<0.54	1.8	06/20/19 09:10	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	06/20/19 09:10	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	06/20/19 09:10	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	06/20/19 09:10	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	06/20/19 09:10	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	06/20/19 09:10	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	06/20/19 09:10	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	06/20/19 09:10	
1,2-Dichloroethane	ug/L	<0.28	1.0	06/20/19 09:10	
1,2-Dichloropropane	ug/L	<0.28	1.0	06/20/19 09:10	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	06/20/19 09:10	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	06/20/19 09:10	
1,3-Dichloropropane	ug/L	<0.83	2.8	06/20/19 09:10	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	06/20/19 09:10	
2,2-Dichloropropane	ug/L	<2.3	7.6	06/20/19 09:10	
2-Chlorotoluene	ug/L	<0.93	5.0	06/20/19 09:10	
4-Chlorotoluene	ug/L	<0.76	2.5	06/20/19 09:10	
Benzene	ug/L	<0.25	1.0	06/20/19 09:10	
Bromobenzene	ug/L	<0.24	1.0	06/20/19 09:10	
Bromochloromethane	ug/L	<0.36	5.0	06/20/19 09:10	
Bromodichloromethane	ug/L	<0.36	1.2	06/20/19 09:10	
Bromoform	ug/L	<4.0	13.2	06/20/19 09:10	
Bromomethane	ug/L	<0.97	5.0	06/20/19 09:10	
Carbon tetrachloride	ug/L	<0.17	1.0	06/20/19 09:10	
Chlorobenzene	ug/L	<0.71	2.4	06/20/19 09:10	
Chloroethane	ug/L	<1.3	5.0	06/20/19 09:10	
Chloroform	ug/L	<1.3	5.0	06/20/19 09:10	
Chloromethane	ug/L	<2.2	7.3	06/20/19 09:10	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	06/20/19 09:10	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	06/20/19 09:10	
Dibromochloromethane	ug/L	<2.6	8.7	06/20/19 09:10	
Dibromomethane	ug/L	<0.94	3.1	06/20/19 09:10	
Dichlorodifluoromethane	ug/L	<0.50	5.0	06/20/19 09:10	
Diisopropyl ether	ug/L	<1.9	6.3	06/20/19 09:10	
Ethylbenzene	ug/L	<0.22	1.0	06/20/19 09:10	

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### QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189699

METHOD BLANK: 1887087

Matrix: Water

Associated Lab Samples: 40189699019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	06/20/19 09:10	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	06/20/19 09:10	
m&p-Xylene	ug/L	<0.47	2.0	06/20/19 09:10	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	06/20/19 09:10	
Methylene Chloride	ug/L	<0.58	5.0	06/20/19 09:10	
n-Butylbenzene	ug/L	<0.71	2.4	06/20/19 09:10	
n-Propylbenzene	ug/L	<0.81	5.0	06/20/19 09:10	
Naphthalene	ug/L	<1.2	5.0	06/20/19 09:10	
o-Xylene	ug/L	<0.26	1.0	06/20/19 09:10	
p-Isopropyltoluene	ug/L	<0.80	2.7	06/20/19 09:10	
sec-Butylbenzene	ug/L	<0.85	5.0	06/20/19 09:10	
Styrene	ug/L	<0.47	1.6	06/20/19 09:10	
tert-Butylbenzene	ug/L	<0.30	1.0	06/20/19 09:10	
Tetrachloroethene	ug/L	<0.33	1.1	06/20/19 09:10	
Toluene	ug/L	<0.17	5.0	06/20/19 09:10	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	06/20/19 09:10	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	06/20/19 09:10	
Trichloroethene	ug/L	<0.26	1.0	06/20/19 09:10	
Trichlorofluoromethane	ug/L	<0.21	1.0	06/20/19 09:10	
Vinyl chloride	ug/L	<0.17	1.0	06/20/19 09:10	
4-Bromofluorobenzene (S)	%	95	70-130	06/20/19 09:10	
Dibromofluoromethane (S)	%	112	70-130	06/20/19 09:10	
Toluene-d8 (S)	%	97	70-130	06/20/19 09:10	

LABORATORY CONTROL SAMPLE: 1887088

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	53.6	107	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	48.1	96	70-130	
1,1,2-Trichloroethane	ug/L	50	50.5	101	70-130	
1,1-Dichloroethane	ug/L	50	53.7	107	73-150	
1,1-Dichloroethene	ug/L	50	53.7	107	73-138	
1,2,4-Trichlorobenzene	ug/L	50	44.5	89	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	36.9	74	64-129	
1,2-Dibromoethane (EDB)	ug/L	50	47.8	96	70-130	
1,2-Dichlorobenzene	ug/L	50	49.0	98	70-130	
1,2-Dichloroethane	ug/L	50	53.0	106	75-140	
1,2-Dichloropropane	ug/L	50	55.5	111	73-135	
1,3-Dichlorobenzene	ug/L	50	49.1	98	70-130	
1,4-Dichlorobenzene	ug/L	50	49.8	100	70-130	
Benzene	ug/L	50	59.7	119	70-130	
Bromodichloromethane	ug/L	50	50.7	101	70-130	
Bromoform	ug/L	50	39.2	78	68-129	
Bromomethane	ug/L	50	35.7	71	18-159	

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### QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189699

LABORATORY CONTROL SAMPLE: 1887088

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	53.4	107	70-130	
Chlorobenzene	ug/L	50	51.4	103	70-130	
Chloroethane	ug/L	50	48.9	98	53-147	
Chloroform	ug/L	50	55.1	110	74-136	
Chloromethane	ug/L	50	37.3	75	29-115	
cis-1,2-Dichloroethene	ug/L	50	64.5	129	70-130	
cis-1,3-Dichloropropene	ug/L	50	48.1	96	70-130	
Dibromochloromethane	ug/L	50	46.2	92	70-130	
Dichlorodifluoromethane	ug/L	50	28.5	57	10-130	
Ethylbenzene	ug/L	50	53.3	107	80-124	
Isopropylbenzene (Cumene)	ug/L	50	52.7	105	70-130	
m&p-Xylene	ug/L	100	107	107	70-130	
Methyl-tert-butyl ether	ug/L	50	43.7	87	54-137	
Methylene Chloride	ug/L	50	54.1	108	73-138	
o-Xylene	ug/L	50	51.7	103	70-130	
Styrene	ug/L	50	53.1	106	70-130	
Tetrachloroethene	ug/L	50	49.9	100	70-130	
Toluene	ug/L	50	52.8	106	80-126	
trans-1,2-Dichloroethene	ug/L	50	53.3	107	73-145	
trans-1,3-Dichloropropene	ug/L	50	42.7	85	70-130	
Trichloroethene	ug/L	50	55.2	110	70-130	
Trichlorofluoromethane	ug/L	50	52.8	106	76-147	
Vinyl chloride	ug/L	50	43.8	88	51-120	
4-Bromofluorobenzene (S)	%			99	70-130	
Dibromofluoromethane (S)	%			110	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1887176 1887177

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40189754003 Result	Spike Conc.	Spike Conc.	Conc.								
1,1,1-Trichloroethane	ug/L	<0.24	50	50	50	51.1	54.5	102	109	70-130	6	20	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	50	46.6	48.6	93	97	70-130	4	20	
1,1,2-Trichloroethane	ug/L	<0.55	50	50	50	49.1	51.5	98	103	70-137	5	20	
1,1-Dichloroethane	ug/L	<0.27	50	50	50	51.3	54.3	103	109	73-153	6	20	
1,1-Dichloroethene	ug/L	<0.24	50	50	50	51.8	54.3	104	109	73-138	5	20	
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	50	45.1	46.4	90	92	70-130	3	20	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	50	37.6	38.9	75	78	58-129	3	20	
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	50	46.0	48.6	92	97	70-130	5	20	
1,2-Dichlorobenzene	ug/L	<0.71	50	50	50	47.5	49.2	95	98	70-130	3	20	
1,2-Dichloroethane	ug/L	<0.28	50	50	50	51.0	53.9	102	108	75-140	5	20	
1,2-Dichloropropane	ug/L	<0.28	50	50	50	53.7	56.3	107	113	71-138	5	20	
1,3-Dichlorobenzene	ug/L	<0.63	50	50	50	47.6	49.3	95	99	70-130	3	20	
1,4-Dichlorobenzene	ug/L	<0.94	50	50	50	48.6	50.2	97	100	70-130	3	20	

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### QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189699

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1887176 1887177												
Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		40189754003 Result	Spike Conc.	Spike Conc.	MS Result							
Benzene	ug/L	<0.25	50	50	57.1	60.5	114	121	70-130	6	20	
Bromodichloromethane	ug/L	<0.36	50	50	48.9	51.1	98	102	70-130	4	20	
Bromoform	ug/L	<4.0	50	50	38.3	39.7	77	79	68-129	4	20	
Bromomethane	ug/L	<0.97	50	50	37.2	41.0	74	82	15-170	10	20	
Carbon tetrachloride	ug/L	<0.17	50	50	51.4	54.7	103	109	70-130	6	20	
Chlorobenzene	ug/L	<0.71	50	50	49.5	51.7	99	103	70-130	4	20	
Chloroethane	ug/L	<1.3	50	50	46.5	50.1	93	100	51-148	7	20	
Chloroform	ug/L	<1.3	50	50	52.8	55.9	106	112	74-136	6	20	
Chloromethane	ug/L	<2.2	50	50	34.7	37.4	69	75	23-115	8	20	
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	62.2	65.8	124	132	70-131	6	20	M1
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	46.8	49.2	94	98	70-130	5	20	
Dibromochloromethane	ug/L	<2.6	50	50	45.0	47.0	90	94	70-130	4	20	
Dichlorodifluoromethane	ug/L	<0.50	50	50	24.6	25.7	49	51	10-132	5	20	
Ethylbenzene	ug/L	<0.22	50	50	51.0	53.6	102	107	80-125	5	20	
Isopropylbenzene (Cumene)	ug/L	<0.39	50	50	50.3	52.9	101	106	70-130	5	20	
m&p-Xylene	ug/L	<0.47	100	100	102	107	102	107	70-130	5	20	
Methyl-tert-butyl ether	ug/L	<1.2	50	50	42.8	45.3	86	91	51-145	6	20	
Methylene Chloride	ug/L	<0.58	50	50	51.9	54.9	104	110	73-140	6	20	
o-Xylene	ug/L	<0.26	50	50	49.4	51.6	99	103	70-130	4	20	
Styrene	ug/L	<0.47	50	50	50.6	53.5	101	107	70-130	6	20	
Tetrachloroethene	ug/L	<0.33	50	50	48.2	50.5	96	101	70-130	5	20	
Toluene	ug/L	<0.17	50	50	50.4	53.2	101	106	80-131	5	20	
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	51.2	54.1	102	108	73-148	6	20	
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	41.5	43.9	83	88	70-130	6	20	
Trichloroethene	ug/L	<0.26	50	50	53.0	55.6	106	111	70-130	5	20	
Trichlorofluoromethane	ug/L	<0.21	50	50	50.2	53.1	100	106	74-147	6	20	
Vinyl chloride	ug/L	<0.17	50	50	40.9	43.5	82	87	41-129	6	20	
4-Bromofluorobenzene (S)	%						100	99	70-130			
Dibromofluoromethane (S)	%						110	111	70-130			
Toluene-d8 (S)	%						97	98	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.: 40189699

QC Batch: 325183

Analysis Method: EPA 8260

QC Batch Method: EPA 8260

Analysis Description: 8260 MSV

Associated Lab Samples: 40189699004

METHOD BLANK: 1887937

Matrix: Water

Associated Lab Samples: 40189699004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	06/21/19 06:49	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	06/21/19 06:49	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	06/21/19 06:49	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	06/21/19 06:49	
1,1-Dichloroethane	ug/L	<0.27	1.0	06/21/19 06:49	
1,1-Dichloroethene	ug/L	<0.24	1.0	06/21/19 06:49	
1,1-Dichloropropene	ug/L	<0.54	1.8	06/21/19 06:49	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	06/21/19 06:49	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	06/21/19 06:49	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	06/21/19 06:49	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	06/21/19 06:49	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	06/21/19 06:49	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	06/21/19 06:49	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	06/21/19 06:49	
1,2-Dichloroethane	ug/L	<0.28	1.0	06/21/19 06:49	
1,2-Dichloropropane	ug/L	<0.28	1.0	06/21/19 06:49	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	06/21/19 06:49	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	06/21/19 06:49	
1,3-Dichloropropane	ug/L	<0.83	2.8	06/21/19 06:49	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	06/21/19 06:49	
2,2-Dichloropropane	ug/L	<2.3	7.6	06/21/19 06:49	
2-Chlorotoluene	ug/L	<0.93	5.0	06/21/19 06:49	
4-Chlorotoluene	ug/L	<0.76	2.5	06/21/19 06:49	
Benzene	ug/L	<0.25	1.0	06/21/19 06:49	
Bromobenzene	ug/L	<0.24	1.0	06/21/19 06:49	
Bromochloromethane	ug/L	<0.36	5.0	06/21/19 06:49	
Bromodichloromethane	ug/L	<0.36	1.2	06/21/19 06:49	
Bromoform	ug/L	<4.0	13.2	06/21/19 06:49	
Bromomethane	ug/L	<0.97	5.0	06/21/19 06:49	
Carbon tetrachloride	ug/L	<0.17	1.0	06/21/19 06:49	
Chlorobenzene	ug/L	<0.71	2.4	06/21/19 06:49	
Chloroethane	ug/L	<1.3	5.0	06/21/19 06:49	
Chloroform	ug/L	<1.3	5.0	06/21/19 06:49	
Chloromethane	ug/L	<2.2	7.3	06/21/19 06:49	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	06/21/19 06:49	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	06/21/19 06:49	
Dibromochloromethane	ug/L	<2.6	8.7	06/21/19 06:49	
Dibromomethane	ug/L	<0.94	3.1	06/21/19 06:49	
Dichlorodifluoromethane	ug/L	<0.50	5.0	06/21/19 06:49	
Diisopropyl ether	ug/L	<1.9	6.3	06/21/19 06:49	
Ethylbenzene	ug/L	<0.22	1.0	06/21/19 06:49	

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### QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189699

METHOD BLANK: 1887937

Matrix: Water

Associated Lab Samples: 40189699004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	06/21/19 06:49	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	06/21/19 06:49	
m&p-Xylene	ug/L	<0.47	2.0	06/21/19 06:49	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	06/21/19 06:49	
Methylene Chloride	ug/L	<0.58	5.0	06/21/19 06:49	
n-Butylbenzene	ug/L	<0.71	2.4	06/21/19 06:49	
n-Propylbenzene	ug/L	<0.81	5.0	06/21/19 06:49	
Naphthalene	ug/L	<1.2	5.0	06/21/19 06:49	
o-Xylene	ug/L	<0.26	1.0	06/21/19 06:49	
p-Isopropyltoluene	ug/L	<0.80	2.7	06/21/19 06:49	
sec-Butylbenzene	ug/L	<0.85	5.0	06/21/19 06:49	
Styrene	ug/L	<0.47	1.6	06/21/19 06:49	
tert-Butylbenzene	ug/L	<0.30	1.0	06/21/19 06:49	
Tetrachloroethene	ug/L	<0.33	1.1	06/21/19 06:49	
Toluene	ug/L	<0.17	5.0	06/21/19 06:49	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	06/21/19 06:49	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	06/21/19 06:49	
Trichloroethene	ug/L	<0.26	1.0	06/21/19 06:49	
Trichlorofluoromethane	ug/L	<0.21	1.0	06/21/19 06:49	
Vinyl chloride	ug/L	<0.17	1.0	06/21/19 06:49	
4-Bromofluorobenzene (S)	%	95	70-130	06/21/19 06:49	
Dibromofluoromethane (S)	%	112	70-130	06/21/19 06:49	
Toluene-d8 (S)	%	97	70-130	06/21/19 06:49	

LABORATORY CONTROL SAMPLE: 1887938

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	51.9	104	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	47.1	94	70-130	
1,1,2-Trichloroethane	ug/L	50	49.2	98	70-130	
1,1-Dichloroethane	ug/L	50	50.9	102	73-150	
1,1-Dichloroethene	ug/L	50	50.8	102	73-138	
1,2,4-Trichlorobenzene	ug/L	50	43.6	87	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	36.6	73	64-129	
1,2-Dibromoethane (EDB)	ug/L	50	46.2	92	70-130	
1,2-Dichlorobenzene	ug/L	50	47.2	94	70-130	
1,2-Dichloroethane	ug/L	50	51.1	102	75-140	
1,2-Dichloropropane	ug/L	50	54.3	109	73-135	
1,3-Dichlorobenzene	ug/L	50	47.6	95	70-130	
1,4-Dichlorobenzene	ug/L	50	48.4	97	70-130	
Benzene	ug/L	50	58.0	116	70-130	
Bromodichloromethane	ug/L	50	49.1	98	70-130	
Bromoform	ug/L	50	38.9	78	68-129	
Bromomethane	ug/L	50	31.6	63	18-159	

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### QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189699

LABORATORY CONTROL SAMPLE: 1887938

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	49.4	99	70-130	
Chloroethane	ug/L	50	46.0	92	53-147	
Chloroform	ug/L	50	53.6	107	74-136	
Chloromethane	ug/L	50	31.0	62	29-115	
cis-1,2-Dichloroethene	ug/L	50	62.8	126	70-130	
cis-1,3-Dichloropropene	ug/L	50	46.4	93	70-130	
Dibromochloromethane	ug/L	50	45.5	91	70-130	
Dichlorodifluoromethane	ug/L	50	23.3	47	10-130	
Ethylbenzene	ug/L	50	51.2	102	80-124	
Isopropylbenzene (Cumene)	ug/L	50	50.5	101	70-130	
m&p-Xylene	ug/L	100	103	103	70-130	
Methyl-tert-butyl ether	ug/L	50	43.0	86	54-137	
Methylene Chloride	ug/L	50	52.2	104	73-138	
o-Xylene	ug/L	50	49.8	100	70-130	
Styrene	ug/L	50	51.1	102	70-130	
Tetrachloroethene	ug/L	50	48.9	98	70-130	
Toluene	ug/L	50	50.6	101	80-126	
trans-1,2-Dichloroethene	ug/L	50	51.2	102	73-145	
trans-1,3-Dichloropropene	ug/L	50	41.2	82	70-130	
Trichloroethene	ug/L	50	53.6	107	70-130	
Trichlorofluoromethane	ug/L	50	50.5	101	76-147	
Vinyl chloride	ug/L	50	39.1	78	51-120	
4-Bromofluorobenzene (S)	%			99	70-130	
Dibromofluoromethane (S)	%			111	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1887974 1887975

Parameter	Units	40189793002		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	Result	MSD Result	% Rec	% Rec					
1,1,1-Trichloroethane	ug/L	<0.24	50	50	52.7	54.5	105	109	70-130	3	20		
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	47.4	48.7	95	97	70-130	3	20		
1,1,2-Trichloroethane	ug/L	<0.55	50	50	49.8	50.9	100	102	70-137	2	20		
1,1-Dichloroethane	ug/L	<0.27	50	50	52.3	54.4	105	109	73-153	4	20		
1,1-Dichloroethene	ug/L	<0.24	50	50	55.0	57.1	110	114	73-138	4	20		
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	44.6	46.2	89	92	70-130	3	20		
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	37.6	38.8	75	78	58-129	3	20		
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	47.2	48.2	94	96	70-130	2	20		
1,2-Dichlorobenzene	ug/L	<0.71	50	50	47.3	48.8	95	98	70-130	3	20		
1,2-Dichloroethane	ug/L	<0.28	50	50	50.0	53.5	100	107	75-140	7	20		
1,2-Dichloropropane	ug/L	<0.28	50	50	53.2	55.3	106	111	71-138	4	20		
1,3-Dichlorobenzene	ug/L	<0.63	50	50	47.6	49.2	95	98	70-130	3	20		
1,4-Dichlorobenzene	ug/L	<0.94	50	50	48.6	50.4	97	101	70-130	4	20		

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### QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189699

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1887974 1887975												
Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		40189793002 Result	Spike Conc.	Spike Conc.	MS Result							
Benzene	ug/L	<0.25	50	50	58.3	61.0	117	122	70-130	5	20	
Bromodichloromethane	ug/L	<0.36	50	50	48.4	50.9	97	102	70-130	5	20	
Bromoform	ug/L	<4.0	50	50	39.3	40.5	79	81	68-129	3	20	
Bromomethane	ug/L	<0.97	50	50	45.9	48.8	92	98	15-170	6	20	
Carbon tetrachloride	ug/L	<0.17	50	50	53.2	55.7	106	111	70-130	5	20	
Chlorobenzene	ug/L	<0.71	50	50	49.6	51.4	99	103	70-130	4	20	
Chloroethane	ug/L	<1.3	50	50	55.3	54.0	111	108	51-148	2	20	
Chloroform	ug/L	<1.3	50	50	53.5	55.7	107	111	74-136	4	20	
Chloromethane	ug/L	<2.2	50	50	45.5	45.4	91	91	23-115	0	20	
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	63.1	65.7	126	131	70-131	4	20	
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	46.1	48.7	92	97	70-130	5	20	
Dibromochloromethane	ug/L	<2.6	50	50	45.4	47.2	91	94	70-130	4	20	
Dichlorodifluoromethane	ug/L	<0.50	50	50	45.5	47.4	91	95	10-132	4	20	
Ethylbenzene	ug/L	<0.22	50	50	51.5	53.3	103	107	80-125	3	20	
Isopropylbenzene (Cumene)	ug/L	<0.39	50	50	50.6	52.6	101	105	70-130	4	20	
m&p-Xylene	ug/L	<0.47	100	100	103	107	103	107	70-130	4	20	
Methyl-tert-butyl ether	ug/L	<1.2	50	50	43.3	44.9	87	90	51-145	4	20	
Methylene Chloride	ug/L	<0.58	50	50	53.2	55.6	106	111	73-140	5	20	
o-Xylene	ug/L	<0.26	50	50	49.8	51.9	100	104	70-130	4	20	
Styrene	ug/L	<0.47	50	50	51.1	53.0	102	106	70-130	4	20	
Tetrachloroethene	ug/L	0.47J	50	50	49.6	51.0	98	101	70-130	3	20	
Toluene	ug/L	<0.17	50	50	51.2	52.7	102	105	80-131	3	20	
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	53.1	55.2	106	110	73-148	4	20	
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	42.0	43.1	84	86	70-130	3	20	
Trichloroethene	ug/L	<0.26	50	50	52.9	55.8	106	112	70-130	5	20	
Trichlorofluoromethane	ug/L	<0.21	50	50	56.7	58.5	113	117	74-147	3	20	
Vinyl chloride	ug/L	<0.17	50	50	51.4	53.4	103	107	41-129	4	20	
4-Bromofluorobenzene (S)	%						99	100	70-130			
Dibromofluoromethane (S)	%						110	111	70-130			
Toluene-d8 (S)	%						97	98	70-130			

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### QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189699

QC Batch:	324971	Analysis Method:	EPA 300.0
QC Batch Method:	EPA 300.0	Analysis Description:	300.0 IC Anions
Associated Lab Samples:	40189699002, 40189699003, 40189699005, 40189699006, 40189699008, 40189699011, 40189699012, 40189699013		

METHOD BLANK:	1886371	Matrix:	Water
Associated Lab Samples:	40189699002, 40189699003, 40189699005, 40189699006, 40189699008, 40189699011, 40189699012, 40189699013		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate as N	mg/L	<0.075	0.22	06/19/19 10:21	
Sulfate	mg/L	<1.0	3.0	06/19/19 10:21	

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/L	1.5	1.6	104	90-110	
Sulfate	mg/L	20	21.4	107	90-110	

Parameter	Units	1886373		1886374		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40189699013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Nitrate as N	mg/L	<0.38	7.5	7.5	7.6	7.6	101	102	90-110	0	15
Sulfate	mg/L	45.1	100	100	145	144	99	99	90-110	1	15

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### QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189699

QC Batch: 325125 Analysis Method: EPA 310.2  
 QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity  
 Associated Lab Samples: 40189699002, 40189699003, 40189699005, 40189699006, 40189699008, 40189699011, 40189699012, 40189699013

METHOD BLANK: 1887360 Matrix: Water  
 Associated Lab Samples: 40189699002, 40189699003, 40189699005, 40189699006, 40189699008, 40189699011, 40189699012, 40189699013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<7.0	23.5	06/21/19 10:08	

LABORATORY CONTROL SAMPLE: 1887361

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	100	95.9	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1887362 1887363

Parameter	Units	40189699012		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	Result	MSD Result	% Rec	% Rec					
Alkalinity, Total as CaCO3	mg/L	156	200	200	303	305	74	75	90-110	1	20	M0	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1887364 1887365

Parameter	Units	40189665001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	Result	MSD Result	% Rec	% Rec					
Alkalinity, Total as CaCO3	mg/L	2940	2000	2000	5050	4940	105	100	90-110	2	20		

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### QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189699

QC Batch: 325184

Analysis Method: SM 5310C

QC Batch Method: SM 5310C

Analysis Description: 5310C Total Organic Carbon

Associated Lab Samples: 40189699008, 40189699013

METHOD BLANK: 1887939

Matrix: Water

Associated Lab Samples: 40189699008, 40189699013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<0.25	0.84	06/21/19 10:56	

LABORATORY CONTROL SAMPLE: 1887940

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	2.5	2.5	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1887941 1887942

Parameter	Units	40189673001		1887941		1887942		% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Total Organic Carbon	mg/L	3.3	1	1	4.3	4.4	109	113	80-120	1	10

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1887943 1887944

Parameter	Units	40189699008		1887943		1887944		% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Total Organic Carbon	mg/L	6.7	6	6	13.4	13.0	111	105	80-120	3	10

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## QUALIFIERS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189699

---

### 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.

M0 Matrix spike recovery and/or matrix spike duplicate recovery was outside laboratory control limits.

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.: 40189699

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40189699002	OP-9	EPA 8015B Modified	325058		
40189699003	MW-12	EPA 8015B Modified	325058		
40189699005	MW-15	EPA 8015B Modified	325058		
40189699006	MW-20	EPA 8015B Modified	325058		
40189699008	MW-7R	EPA 8015B Modified	325058		
40189699011	MW-37R	EPA 8015B Modified	325058		
40189699012	MW-17R	EPA 8015B Modified	325058		
40189699013	MW-16	EPA 8015B Modified	325058		
40189699002	OP-9	EPA 6010	325662		
40189699003	MW-12	EPA 6010	325662		
40189699005	MW-15	EPA 6010	325662		
40189699006	MW-20	EPA 6010	325662		
40189699008	MW-7R	EPA 6010	325662		
40189699011	MW-37R	EPA 6010	325662		
40189699012	MW-17R	EPA 6010	325662		
40189699013	MW-16	EPA 6010	325662		
40189699001	MW-13R	EPA 8260	325042		
40189699002	OP-9	EPA 8260	325042		
40189699003	MW-12	EPA 8260	325042		
40189699004	OP-11	EPA 8260	325183		
40189699005	MW-15	EPA 8260	325042		
40189699006	MW-20	EPA 8260	325042		
40189699007	MW-8	EPA 8260	325042		
40189699008	MW-7R	EPA 8260	325042		
40189699009	RW-15	EPA 8260	325042		
40189699010	DUP-1	EPA 8260	325042		
40189699011	MW-37R	EPA 8260	325042		
40189699012	MW-17R	EPA 8260	325042		
40189699013	MW-16	EPA 8260	325042		
40189699014	DUP-2	EPA 8260	325042		
40189699015	MW-40	EPA 8260	325042		
40189699016	MW-18R	EPA 8260	325042		
40189699017	MW-39	EPA 8260	325042		
40189699018	TRIP-1	EPA 8260	325042		
40189699019	TRIP-2	EPA 8260	325043		
40189699002	OP-9	EPA 300.0	324971		
40189699003	MW-12	EPA 300.0	324971		
40189699005	MW-15	EPA 300.0	324971		
40189699006	MW-20	EPA 300.0	324971		
40189699008	MW-7R	EPA 300.0	324971		
40189699011	MW-37R	EPA 300.0	324971		
40189699012	MW-17R	EPA 300.0	324971		
40189699013	MW-16	EPA 300.0	324971		
40189699002	OP-9	EPA 310.2	325125		
40189699003	MW-12	EPA 310.2	325125		

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189699

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40189699005	MW-15	EPA 310.2	325125		
40189699006	MW-20	EPA 310.2	325125		
40189699008	MW-7R	EPA 310.2	325125		
40189699011	MW-37R	EPA 310.2	325125		
40189699012	MW-17R	EPA 310.2	325125		
40189699013	MW-16	EPA 310.2	325125		
40189699008	MW-7R	SM 5310C	325184		
40189699013	MW-16	SM 5310C	325184		

### REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: **B2A Eco Environment/H/ Inc.**

Branch/Location: **Waukegan**

Project Contact: **Kevin Hildinger**

Phone: **262-924-1761**

Project Number: **200155935.01**

Project Name: **Int Tube**

Project State: **WI**

Sampled By (Print): **Alex Amundson**

Sampled By (Sign): *[Signature]*

PO #:

Data Package Options (billable):  
 EPA Level III  
 EPA Level IV

MSMSD (billable):  
 On your sample  
 NOT needed on your sample

CLIENT FIELD ID

PAGE LAB #

DATE

TIME

MATRIX

Analyses Requested

VOC

Dissolved Mn+Fe

Ethane + Ethene

Nitrate + Sulfate

TOC

Alkalinity

Y/N

Pick Letter

Received By: **[Signature]**

Date/Time: **6/18/14 0945**

Received By: **[Signature]**

Date/Time: **6/18/14 0945**

# CHAIN OF CUSTODY

Preservation Codes:  
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	Received By:	Date/Time:
N	B	[Signature]	6/18/14 0945
Y	D	[Signature]	6/18/14 0945
N	B	[Signature]	6/18/14 0945
N	A	[Signature]	6/18/14 0945
N	A	[Signature]	6/18/14 0945
N	A	[Signature]	6/18/14 0945

Quote #: \_\_\_\_\_

Mail To Contact: \_\_\_\_\_

Mail To Company: \_\_\_\_\_

Mail To Address: \_\_\_\_\_

Invoice To Contact: **SAME**

Invoice To Company: \_\_\_\_\_

Invoice To Address: \_\_\_\_\_

Invoice To Phone: \_\_\_\_\_

CLIENT COMMENTS: \_\_\_\_\_

LAB COMMENTS (Lab Use Only): \_\_\_\_\_

Profile #: \_\_\_\_\_



www.faceanalytical.com

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

(Please Print Clearly)

Company Name: **62A Geo Environmental Inc.**  
 Branch/Location: **Waukesha**  
 Project Contact: **Karin Heider**  
 Phone: **262-424-1761**  
 Project Number: **20.0155955.01**  
 Project Name: **Trnt Tube**  
 Project State: **WI**  
 Sampled By (Print): **Allye 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 W = Water  
 B = Biota DW = Drinking Water  
 C = Charcoal GW = Ground Water  
 O = Oil SW = Surface Water  
 S = Soil WW = Waste Water  
 SL = Sludge WP = Waste

**CLIENT FIELD ID**  
 D14 **Aug-2** 6/18/14 CW  
 D15 **Aug-46** 6/18/14 1059 CW  
 D16 **Aug-18R** 6/19/14 1350 CW  
 D17 **Aug-3A** 6/19/14 1020 CW  
 D18 **Top-1** 6/19/14 - -  
 D19 **Top-2** 6/19/14 - -



# CHAIN OF CUSTODY

ANone B=HCL C=H2SO4 D=HNO3 E=DI 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	VOC
Y	D	Dissolved Mn+Fe
N	B	Ethane + Ethene
N	A	Nitrate + Sulfate
N	A	TOC
N	A	Alkalinity

**Rush Turnaround Time Requested - Prelims**  
 (Rush TAT subject to approval/surcharge)  
 Date Needed: \_\_\_\_\_

Transmit Prelim Rush Results by (complete what you want):  
 Email #1: \_\_\_\_\_  
 Email #2: \_\_\_\_\_  
 Telephone: \_\_\_\_\_  
 Fax: \_\_\_\_\_

Reinquired By: *[Signature]* Date/Time: 6/19/14 1700  
 Reinstated By: *[Signature]* Date/Time: 6-19-14 0945  
 Received By: *[Signature]* Date/Time: 6-19-14 1505

Reinquired By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Reinstated By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Special pricing and release of liability

Quote #: \_\_\_\_\_  
 Mail To Contact: \_\_\_\_\_  
 Mail To Company: \_\_\_\_\_  
 Mail To Address: \_\_\_\_\_  
 Invoice To Contact: \_\_\_\_\_  
 Invoice To Company: \_\_\_\_\_  
 Invoice To Address: \_\_\_\_\_  
 Invoice To Phone: \_\_\_\_\_  
 CLIENT COMMENTS: \_\_\_\_\_  
 LAB COMMENTS (Lab Use Only): \_\_\_\_\_  
 Profile #: \_\_\_\_\_

PAGE Project No. **40189699**  
 Receipt Temp = **20.7** °C  
 Sample Receipt pH **OK / Adjusted**  
 Cooler Custody Seal **Present / NOT Present**  
 Intact / Not Intact

Client Name: GZA

Sample Preservation Receipt Form

Project # 10189699


All containers needing preservation have been checked and noted below: Yes  No  N/A  Lab Lot# of pH paper: 10189699 Lab Std #ID of preservation (if pH adjusted):

Initial when completed: SLJ Date/Time:

Pace Lab #	Glass	Plastic	Vials	Jars	General	VOA Vials (>6mm) *	H2SO4 pH $\leq$	NaOH+Zn Act pH $\geq$ 9	NaOH pH $\geq$ 12	HNO3 pH $\leq$	pH after adjusted	Volume (mL)
001												2.5/5/10
002												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												2.5/5/10
010												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												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, W/DRO, Phenolics, Other: \_\_\_\_\_ Headspace in VOA Vials (<6mm): Yes  No  N/A  \*If yes look in headspace column

Pace Lab #	Description	Volume	Material	Preservation	Notes
AG1U	1 liter amber glass				
AG1H	1 liter amber glass HCL				
AG4S	125 mL amber glass H2SO4				
AG4U	120 mL amber glass unpres				
AG5U	100 mL amber glass unpres				
AG2S	500 mL amber glass H2SO4				
BG3U	250 mL clear glass unpres				
BP1U	1 liter plastic unpres				
BP2N	500 mL plastic HNO3				
BP2Z	500 mL plastic NaOH, Znact				
BP3U	250 mL plastic unpres				
BP3B	250 mL plastic NaOH				
BP3N	250 mL plastic HNO3				
BP3S	250 mL plastic H2SO4				
DG9A	40 mL amber ascorbic				
DG9T	40 mL amber Na Thio				
VG9U	40 mL clear vial unpres				
VG9H	40 mL clear vial HCL				
VG9M	40 mL clear vial MeOH				
VG9D	40 mL clear vial DI				
JGFU	4 oz amber jar unpres				
WG9U	4 oz clear jar unpres				
WPFU	4 oz plastic jar unpres				
SP5T	120 mL plastic Na Thiosulfate				
ZP1C	ziploc bag				
GN:					

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

**Sample Condition Upon Receipt Form (SCUR)**

**GZA**

Project #: \_\_\_\_\_

Client Name: \_\_\_\_\_

**WO#: 40189699**

Courier:  CS Logistics  Fed Ex  Speedee  UPS  Walto  
 Client  Pace Other: \_\_\_\_\_



Tracking #: **814869396225**

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:  Ice  Blue Dry None  Samples on ice, cooling process has begun

Cooler Temperature Uncorr: ROI Corr: \_\_\_\_\_

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

Person examining contents:

Date: 6-19-19  
Initials: SKW

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. <u>Client has 2 of 2 on both pages</u>
Chain of Custody Relinquished: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3. <u>Pg # only</u>
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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No	6.
Rush Turn Around Time Requested: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume: 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	8. <u>Rec'd 1 BP3N, 1 BB3J for sample pt 005. 1 AG4S for sample pt 013. Added by PM</u>
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. <u>003 - time 929; 011 - ID is MW37R</u>
-Includes date/time/ID/Analysis Matrix: <u>W</u>	<u>0015 - time unlegible on BP3U + BP3N</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): _____	

**Client Notification/ Resolution:**

Person Contacted: Alex Amundson Date/Time: 6/19/19 If checked, see attached form for additional comments

Comments/ Resolution: 011 - ID updated per client email. 005 + 013 - analysis added per client based on address bottles received by Lab. 6/19/19 con

Project Manager Review: CA

Date: 6/19/19



June 27, 2019

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

RE: Project: 20.0155935.01 TRENT TUBE  
Pace Project No.: 40189793

Dear Kevin Hedinger:

Enclosed are the analytical results for sample(s) received by the laboratory on June 20, 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.: 40189793

---

### 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

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189793

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40189793001	MW-1R	Water	06/19/19 13:24	06/20/19 10:10
40189793002	MW-25	Water	06/19/19 10:52	06/20/19 10:10
40189793003	MW-29	Water	06/19/19 09:57	06/20/19 10:10
40189793004	MW-27	Water	06/19/19 12:15	06/20/19 10:10
40189793005	DUP-3	Water	06/19/19 12:15	06/20/19 10:10
40189793006	MW-2	Water	06/19/19 14:20	06/20/19 10:10
40189793007	RW-14	Water	06/19/19 15:37	06/20/19 10:10
40189793008	MW-19	Water	06/19/19 08:48	06/20/19 10:10
40189793009	TRIP-1	Water	06/19/19 00:00	06/20/19 10:10
40189793010	TRIP-2	Water	06/19/19 00:00	06/20/19 10:10
40189793011	MW-38	Water	06/19/19 09:21	06/20/19 10:10
40189793012	MW-21	Water	06/19/19 10:14	06/20/19 10:10
40189793013	MW-11	Water	06/19/19 11:03	06/20/19 10:10
40189793014	MW-42	Water	06/19/19 13:06	06/20/19 10:10
40189793015	MW-41	Water	06/19/19 13:37	06/20/19 10:10
40189793016	MW-4A	Water	06/19/19 14:27	06/20/19 10:10
40189793017	MW-4	Water	06/19/19 15:10	06/20/19 10:10

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189793

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40189793001	MW-1R	EPA 8015B Modified	ALD	2	PASI-G
		EPA 6010	TXW	2	PASI-G
		EPA 8260	HNW	64	PASI-G
		EPA 300.0	HMB	2	PASI-G
		EPA 310.2	DAW	1	PASI-G
40189793002	MW-25	EPA 8015B Modified	ALD	2	PASI-G
		EPA 6010	TXW	2	PASI-G
		EPA 8260	HNW	64	PASI-G
		EPA 300.0	HMB	2	PASI-G
		EPA 310.2	DAW	1	PASI-G
40189793003	MW-29	EPA 8015B Modified	ALD	2	PASI-G
		EPA 6010	TXW	2	PASI-G
		EPA 8260	HNW	64	PASI-G
		EPA 300.0	HMB	2	PASI-G
		EPA 310.2	DAW	1	PASI-G
40189793004	MW-27	EPA 8015B Modified	ALD	2	PASI-G
		EPA 6010	TXW	2	PASI-G
		EPA 8260	HNW	64	PASI-G
		EPA 300.0	HMB	2	PASI-G
		EPA 310.2	DAW	1	PASI-G
40189793005	DUP-3	EPA 8260	HNW	64	PASI-G
40189793006	MW-2	EPA 8015B Modified	ALD	2	PASI-G
		EPA 6010	TXW	2	PASI-G
		EPA 8260	HNW	64	PASI-G
		EPA 300.0	HMB	2	PASI-G
		EPA 310.2	DAW	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40189793007	RW-14	EPA 8260	HNW	64	PASI-G
40189793008	MW-19	EPA 8015B Modified	ALD	2	PASI-G
		EPA 6010	TXW	2	PASI-G
		EPA 8260	HNW	64	PASI-G
		EPA 300.0	HMB	2	PASI-G
		EPA 310.2	DAW	1	PASI-G
40189793009	TRIP-1	EPA 8260	HNW	64	PASI-G
40189793010	TRIP-2	EPA 8260	HNW	64	PASI-G
40189793011	MW-38	EPA 8260	HNW	64	PASI-G
40189793012	MW-21	EPA 8260	HNW	64	PASI-G

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189793

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40189793013	MW-11	EPA 8015B Modified	ALD	2	PASI-G
		EPA 6010	TXW	2	PASI-G
		EPA 8260	HNW	64	PASI-G
		EPA 300.0	HMB	2	PASI-G
		EPA 310.2	DAW	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40189793014	MW-42	EPA 8260	HNW	64	PASI-G
40189793015	MW-41	EPA 8260	HNW	64	PASI-G
40189793016	MW-4A	EPA 8260	HNW	64	PASI-G
40189793017	MW-4	EPA 8015B Modified	ALD	2	PASI-G
		EPA 6010	TXW	2	PASI-G
		EPA 8260	HNW	64	PASI-G
		EPA 300.0	HMB	2	PASI-G
		EPA 310.2	DAW	1	PASI-G

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: 20.0155935.01 TRENT TUBE  
Pace Project No.: 40189793

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>40189793001</b>	<b>MW-1R</b>					
EPA 6010	Manganese, Dissolved	32.6	ug/L	5.0	06/25/19 23:02	
EPA 8260	1,1,1-Trichloroethane	0.76J	ug/L	1.0	06/21/19 10:57	
EPA 8260	1,1-Dichloroethane	3.3	ug/L	1.0	06/21/19 10:57	
EPA 8260	Tetrachloroethene	1.3	ug/L	1.1	06/21/19 10:57	
EPA 300.0	Nitrate as N	0.093J	mg/L	0.22	06/20/19 17:22	
EPA 300.0	Sulfate	514	mg/L	30.0	06/21/19 11:52	
EPA 310.2	Alkalinity, Total as CaCO3	269	mg/L	47.0	06/21/19 11:04	MO
<b>40189793002</b>	<b>MW-25</b>					
EPA 6010	Iron, Dissolved	1990	ug/L	118	06/25/19 23:05	
EPA 6010	Manganese, Dissolved	104	ug/L	5.0	06/25/19 23:05	
EPA 8260	Tetrachloroethene	0.47J	ug/L	1.1	06/21/19 09:27	
EPA 300.0	Sulfate	159	mg/L	15.0	06/21/19 12:05	
EPA 310.2	Alkalinity, Total as CaCO3	435	mg/L	47.0	06/21/19 11:06	
<b>40189793003</b>	<b>MW-29</b>					
EPA 6010	Manganese, Dissolved	14.1	ug/L	5.0	06/25/19 23:07	
EPA 8260	Tetrachloroethene	0.58J	ug/L	1.1	06/21/19 11:19	
EPA 300.0	Nitrate as N	5.1	mg/L	1.1	06/21/19 12:19	H5
EPA 300.0	Sulfate	448	mg/L	60.0	06/20/19 17:52	
EPA 310.2	Alkalinity, Total as CaCO3	280	mg/L	23.5	06/21/19 11:06	
<b>40189793004</b>	<b>MW-27</b>					
EPA 6010	Iron, Dissolved	2870	ug/L	118	06/25/19 23:10	
EPA 6010	Manganese, Dissolved	835	ug/L	5.0	06/25/19 23:10	
EPA 8260	Tetrachloroethene	0.63J	ug/L	1.1	06/21/19 11:41	
EPA 8260	Vinyl chloride	0.20J	ug/L	1.0	06/21/19 11:41	
EPA 8260	cis-1,2-Dichloroethene	0.42J	ug/L	1.0	06/21/19 11:41	
EPA 310.2	Alkalinity, Total as CaCO3	488	mg/L	47.0	06/21/19 11:09	
<b>40189793005</b>	<b>DUP-3</b>					
EPA 8260	Trichloroethene	15000	ug/L	100	06/22/19 02:06	
<b>40189793006</b>	<b>MW-2</b>					
EPA 8260	Trichloroethene	16400	ug/L	100	06/21/19 09:49	
EPA 300.0	Nitrate as N	0.14J	mg/L	0.22	06/20/19 18:57	
EPA 300.0	Sulfate	90.1	mg/L	15.0	06/21/19 13:11	
EPA 310.2	Alkalinity, Total as CaCO3	304	mg/L	23.5	06/21/19 11:10	
SM 5310C	Total Organic Carbon	3.0	mg/L	0.84	06/21/19 17:33	
<b>40189793007</b>	<b>RW-14</b>					
EPA 8260	1,1,1-Trichloroethane	57.7	ug/L	10.0	06/21/19 10:12	
EPA 8260	1,1-Dichloroethane	22.7	ug/L	10.0	06/21/19 10:12	
EPA 8260	Naphthalene	24.7J	ug/L	50.0	06/21/19 10:12	
EPA 8260	Trichloroethene	31.0	ug/L	10.0	06/21/19 10:12	
EPA 8260	Vinyl chloride	112	ug/L	10.0	06/21/19 10:12	
EPA 8260	cis-1,2-Dichloroethene	669	ug/L	10.0	06/21/19 10:12	
<b>40189793008</b>	<b>MW-19</b>					
EPA 8015B Modified	Ethane	3.5J	ug/L	5.6	06/21/19 10:40	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: 20.0155935.01 TRENT TUBE  
Pace Project No.: 40189793

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>40189793008</b>	<b>MW-19</b>					
EPA 8015B Modified	Ethene	3.2J	ug/L	5.0	06/21/19 10:40	
EPA 6010	Iron, Dissolved	10500	ug/L	118	06/25/19 23:15	
EPA 6010	Manganese, Dissolved	950	ug/L	5.0	06/25/19 23:15	
EPA 8260	1,1-Dichloroethane	0.66J	ug/L	1.0	06/21/19 12:04	
EPA 8260	Tetrachloroethene	0.60J	ug/L	1.1	06/21/19 12:04	
EPA 8260	Vinyl chloride	10.3	ug/L	1.0	06/21/19 12:04	
EPA 8260	cis-1,2-Dichloroethene	1.5	ug/L	1.0	06/21/19 12:04	
EPA 310.2	Alkalinity, Total as CaCO3	560	mg/L	117	06/21/19 11:10	
<b>40189793011</b>	<b>MW-38</b>					
EPA 8260	1,1,1-Trichloroethane	0.25J	ug/L	1.0	06/21/19 14:18	
EPA 8260	Tetrachloroethene	0.43J	ug/L	1.1	06/21/19 14:18	
<b>40189793012</b>	<b>MW-21</b>					
EPA 8260	1,1,1-Trichloroethane	0.85J	ug/L	1.0	06/21/19 12:27	
EPA 8260	Tetrachloroethene	0.65J	ug/L	1.1	06/21/19 12:27	
<b>40189793013</b>	<b>MW-11</b>					
EPA 6010	Manganese, Dissolved	42.0	ug/L	5.0	06/25/19 23:17	
EPA 8260	Tetrachloroethene	0.70J	ug/L	1.1	06/21/19 12:49	
EPA 300.0	Nitrate as N	2.3	mg/L	1.1	06/20/19 19:24	
EPA 300.0	Sulfate	14.9J	mg/L	15.0	06/20/19 19:24	D3
EPA 310.2	Alkalinity, Total as CaCO3	286	mg/L	23.5	06/21/19 11:11	
SM 5310C	Total Organic Carbon	1.9	mg/L	0.84	06/21/19 17:53	
<b>40189793014</b>	<b>MW-42</b>					
EPA 8260	Trichloroethene	5180	ug/L	100	06/22/19 02:28	
<b>40189793015</b>	<b>MW-41</b>					
EPA 8260	1,1,1-Trichloroethane	1.9	ug/L	1.0	06/21/19 14:41	
EPA 8260	1,1-Dichloroethane	0.64J	ug/L	1.0	06/21/19 14:41	
EPA 8260	Tetrachloroethene	1.5	ug/L	1.1	06/21/19 14:41	
EPA 8260	Trichloroethene	27.7	ug/L	1.0	06/21/19 14:41	
EPA 8260	cis-1,2-Dichloroethene	0.39J	ug/L	1.0	06/21/19 14:41	
<b>40189793016</b>	<b>MW-4A</b>					
EPA 8260	Tetrachloroethene	2.3	ug/L	1.1	06/21/19 13:11	
EPA 8260	Trichloroethene	0.46J	ug/L	1.0	06/21/19 13:11	
<b>40189793017</b>	<b>MW-4</b>					
EPA 8260	1,1,1-Trichloroethane	3.2	ug/L	2.5	06/21/19 10:34	
EPA 8260	Tetrachloroethene	2.9	ug/L	2.7	06/21/19 10:34	
EPA 8260	Trichloroethene	112	ug/L	2.5	06/21/19 10:34	
EPA 8260	cis-1,2-Dichloroethene	1.8J	ug/L	2.5	06/21/19 10:34	
EPA 300.0	Sulfate	40.9	mg/L	3.0	06/20/19 19:37	M0
EPA 310.2	Alkalinity, Total as CaCO3	252	mg/L	23.5	06/21/19 11:11	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189793

**Sample: MW-1R**      **Lab ID: 40189793001**      Collected: 06/19/19 13:24      Received: 06/20/19 10:10      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b>		Analytical Method: EPA 8015B Modified							
Ethane	<0.58	ug/L	5.6	0.58	1		06/21/19 10:06	74-84-0	
Ethene	<0.52	ug/L	5.0	0.52	1		06/21/19 10:06	74-85-1	
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010							
Iron, Dissolved	<35.4	ug/L	118	35.4	1		06/25/19 23:02	7439-89-6	
Manganese, Dissolved	32.6	ug/L	5.0	1.1	1		06/25/19 23:02	7439-96-5	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		06/21/19 10:57	630-20-6	
1,1,1-Trichloroethane	0.76J	ug/L	1.0	0.24	1		06/21/19 10:57	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		06/21/19 10:57	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		06/21/19 10:57	79-00-5	
1,1-Dichloroethane	3.3	ug/L	1.0	0.27	1		06/21/19 10:57	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/21/19 10:57	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		06/21/19 10:57	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		06/21/19 10:57	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		06/21/19 10:57	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/21/19 10:57	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		06/21/19 10:57	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		06/21/19 10:57	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		06/21/19 10:57	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		06/21/19 10:57	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		06/21/19 10:57	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		06/21/19 10:57	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		06/21/19 10:57	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		06/21/19 10:57	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		06/21/19 10:57	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		06/21/19 10:57	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		06/21/19 10:57	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		06/21/19 10:57	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		06/21/19 10:57	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		06/21/19 10:57	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		06/21/19 10:57	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/21/19 10:57	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		06/21/19 10:57	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		06/21/19 10:57	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		06/21/19 10:57	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		06/21/19 10:57	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		06/21/19 10:57	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		06/21/19 10:57	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		06/21/19 10:57	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		06/21/19 10:57	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		06/21/19 10:57	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		06/21/19 10:57	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		06/21/19 10:57	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		06/21/19 10:57	108-20-3	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189793

Sample: MW-1R Lab ID: 40189793001 Collected: 06/19/19 13:24 Received: 06/20/19 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		06/21/19 10:57	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		06/21/19 10:57	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		06/21/19 10:57	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		06/21/19 10:57	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		06/21/19 10:57	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		06/21/19 10:57	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		06/21/19 10:57	100-42-5	
Tetrachloroethene	1.3	ug/L	1.1	0.33	1		06/21/19 10:57	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		06/21/19 10:57	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		06/21/19 10:57	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		06/21/19 10:57	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		06/21/19 10:57	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		06/21/19 10:57	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		06/21/19 10:57	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		06/21/19 10:57	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		06/21/19 10:57	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		06/21/19 10:57	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		06/21/19 10:57	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		06/21/19 10:57	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		06/21/19 10:57	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		06/21/19 10:57	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		06/21/19 10:57	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		06/21/19 10:57	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	95	%	70-130		1		06/21/19 10:57	460-00-4	
Dibromofluoromethane (S)	115	%	70-130		1		06/21/19 10:57	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		06/21/19 10:57	2037-26-5	
<b>300.0 IC Anions</b> Analytical Method: EPA 300.0									
Nitrate as N	0.093J	mg/L	0.22	0.075	1		06/20/19 17:22	14797-55-8	
Sulfate	514	mg/L	30.0	10.0	10		06/21/19 11:52	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	269	mg/L	47.0	14.1	2		06/21/19 11:04		M0

Sample: MW-25 Lab ID: 40189793002 Collected: 06/19/19 10:52 Received: 06/20/19 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Ethane	<0.58	ug/L	5.6	0.58	1		06/21/19 10:12	74-84-0	
Ethene	<0.52	ug/L	5.0	0.52	1		06/21/19 10:12	74-85-1	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189793

Sample: MW-25 Lab ID: 40189793002 Collected: 06/19/19 10:52 Received: 06/20/19 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010							
Iron, Dissolved	<b>1990</b>	ug/L	118	35.4	1		06/25/19 23:05	7439-89-6	
Manganese, Dissolved	<b>104</b>	ug/L	5.0	1.1	1		06/25/19 23:05	7439-96-5	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<b>&lt;0.27</b>	ug/L	1.0	0.27	1		06/21/19 09:27	630-20-6	
1,1,1-Trichloroethane	<b>&lt;0.24</b>	ug/L	1.0	0.24	1		06/21/19 09:27	71-55-6	
1,1,2,2-Tetrachloroethane	<b>&lt;0.28</b>	ug/L	1.0	0.28	1		06/21/19 09:27	79-34-5	
1,1,2-Trichloroethane	<b>&lt;0.55</b>	ug/L	5.0	0.55	1		06/21/19 09:27	79-00-5	
1,1-Dichloroethane	<b>&lt;0.27</b>	ug/L	1.0	0.27	1		06/21/19 09:27	75-34-3	
1,1-Dichloroethene	<b>&lt;0.24</b>	ug/L	1.0	0.24	1		06/21/19 09:27	75-35-4	
1,1-Dichloropropene	<b>&lt;0.54</b>	ug/L	1.8	0.54	1		06/21/19 09:27	563-58-6	
1,2,3-Trichlorobenzene	<b>&lt;0.63</b>	ug/L	5.0	0.63	1		06/21/19 09:27	87-61-6	
1,2,3-Trichloropropane	<b>&lt;0.59</b>	ug/L	5.0	0.59	1		06/21/19 09:27	96-18-4	
1,2,4-Trichlorobenzene	<b>&lt;0.95</b>	ug/L	5.0	0.95	1		06/21/19 09:27	120-82-1	
1,2,4-Trimethylbenzene	<b>&lt;0.84</b>	ug/L	2.8	0.84	1		06/21/19 09:27	95-63-6	
1,2-Dibromo-3-chloropropane	<b>&lt;1.8</b>	ug/L	5.9	1.8	1		06/21/19 09:27	96-12-8	
1,2-Dibromoethane (EDB)	<b>&lt;0.83</b>	ug/L	2.8	0.83	1		06/21/19 09:27	106-93-4	
1,2-Dichlorobenzene	<b>&lt;0.71</b>	ug/L	2.4	0.71	1		06/21/19 09:27	95-50-1	
1,2-Dichloroethane	<b>&lt;0.28</b>	ug/L	1.0	0.28	1		06/21/19 09:27	107-06-2	
1,2-Dichloropropane	<b>&lt;0.28</b>	ug/L	1.0	0.28	1		06/21/19 09:27	78-87-5	
1,3,5-Trimethylbenzene	<b>&lt;0.87</b>	ug/L	2.9	0.87	1		06/21/19 09:27	108-67-8	
1,3-Dichlorobenzene	<b>&lt;0.63</b>	ug/L	2.1	0.63	1		06/21/19 09:27	541-73-1	
1,3-Dichloropropane	<b>&lt;0.83</b>	ug/L	2.8	0.83	1		06/21/19 09:27	142-28-9	
1,4-Dichlorobenzene	<b>&lt;0.94</b>	ug/L	3.1	0.94	1		06/21/19 09:27	106-46-7	
2,2-Dichloropropane	<b>&lt;2.3</b>	ug/L	7.6	2.3	1		06/21/19 09:27	594-20-7	
2-Chlorotoluene	<b>&lt;0.93</b>	ug/L	5.0	0.93	1		06/21/19 09:27	95-49-8	
4-Chlorotoluene	<b>&lt;0.76</b>	ug/L	2.5	0.76	1		06/21/19 09:27	106-43-4	
Benzene	<b>&lt;0.25</b>	ug/L	1.0	0.25	1		06/21/19 09:27	71-43-2	
Bromobenzene	<b>&lt;0.24</b>	ug/L	1.0	0.24	1		06/21/19 09:27	108-86-1	
Bromochloromethane	<b>&lt;0.36</b>	ug/L	5.0	0.36	1		06/21/19 09:27	74-97-5	
Bromodichloromethane	<b>&lt;0.36</b>	ug/L	1.2	0.36	1		06/21/19 09:27	75-27-4	
Bromoform	<b>&lt;4.0</b>	ug/L	13.2	4.0	1		06/21/19 09:27	75-25-2	
Bromomethane	<b>&lt;0.97</b>	ug/L	5.0	0.97	1		06/21/19 09:27	74-83-9	
Carbon tetrachloride	<b>&lt;0.17</b>	ug/L	1.0	0.17	1		06/21/19 09:27	56-23-5	
Chlorobenzene	<b>&lt;0.71</b>	ug/L	2.4	0.71	1		06/21/19 09:27	108-90-7	
Chloroethane	<b>&lt;1.3</b>	ug/L	5.0	1.3	1		06/21/19 09:27	75-00-3	
Chloroform	<b>&lt;1.3</b>	ug/L	5.0	1.3	1		06/21/19 09:27	67-66-3	
Chloromethane	<b>&lt;2.2</b>	ug/L	7.3	2.2	1		06/21/19 09:27	74-87-3	
Dibromochloromethane	<b>&lt;2.6</b>	ug/L	8.7	2.6	1		06/21/19 09:27	124-48-1	
Dibromomethane	<b>&lt;0.94</b>	ug/L	3.1	0.94	1		06/21/19 09:27	74-95-3	
Dichlorodifluoromethane	<b>&lt;0.50</b>	ug/L	5.0	0.50	1		06/21/19 09:27	75-71-8	
Diisopropyl ether	<b>&lt;1.9</b>	ug/L	6.3	1.9	1		06/21/19 09:27	108-20-3	
Ethylbenzene	<b>&lt;0.22</b>	ug/L	1.0	0.22	1		06/21/19 09:27	100-41-4	
Hexachloro-1,3-butadiene	<b>&lt;1.2</b>	ug/L	5.0	1.2	1		06/21/19 09:27	87-68-3	
Isopropylbenzene (Cumene)	<b>&lt;0.39</b>	ug/L	5.0	0.39	1		06/21/19 09:27	98-82-8	
Methyl-tert-butyl ether	<b>&lt;1.2</b>	ug/L	4.2	1.2	1		06/21/19 09:27	1634-04-4	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189793

**Sample: MW-25**      **Lab ID: 40189793002**      Collected: 06/19/19 10:52      Received: 06/20/19 10:10      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		06/21/19 09:27	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		06/21/19 09:27	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		06/21/19 09:27	100-42-5	
Tetrachloroethene	0.47J	ug/L	1.1	0.33	1		06/21/19 09:27	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		06/21/19 09:27	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		06/21/19 09:27	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		06/21/19 09:27	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		06/21/19 09:27	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		06/21/19 09:27	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		06/21/19 09:27	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		06/21/19 09:27	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		06/21/19 09:27	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		06/21/19 09:27	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		06/21/19 09:27	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		06/21/19 09:27	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		06/21/19 09:27	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		06/21/19 09:27	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		06/21/19 09:27	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		06/21/19 09:27	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		1		06/21/19 09:27	460-00-4	
Dibromofluoromethane (S)	113	%	70-130		1		06/21/19 09:27	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		06/21/19 09:27	2037-26-5	
<b>300.0 IC Anions</b> Analytical Method: EPA 300.0									
Nitrate as N	<0.075	mg/L	0.22	0.075	1		06/20/19 17:35	14797-55-8	
Sulfate	159	mg/L	15.0	5.0	5		06/21/19 12:05	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	435	mg/L	47.0	14.1	2		06/21/19 11:06		

**Sample: MW-29**      **Lab ID: 40189793003**      Collected: 06/19/19 09:57      Received: 06/20/19 10:10      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Ethane	<0.58	ug/L	5.6	0.58	1		06/21/19 10:19	74-84-0	
Ethene	<0.52	ug/L	5.0	0.52	1		06/21/19 10:19	74-85-1	
<b>6010 MET ICP, Dissolved</b> Analytical Method: EPA 6010									
Iron, Dissolved	<35.4	ug/L	118	35.4	1		06/25/19 23:07	7439-89-6	
Manganese, Dissolved	14.1	ug/L	5.0	1.1	1		06/25/19 23:07	7439-96-5	

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## ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189793

**Sample:** MW-29      **Lab ID:** 40189793003      Collected: 06/19/19 09:57      Received: 06/20/19 10:10      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		06/21/19 11:19	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/21/19 11:19	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		06/21/19 11:19	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		06/21/19 11:19	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		06/21/19 11:19	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/21/19 11:19	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		06/21/19 11:19	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		06/21/19 11:19	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		06/21/19 11:19	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/21/19 11:19	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		06/21/19 11:19	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		06/21/19 11:19	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		06/21/19 11:19	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		06/21/19 11:19	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		06/21/19 11:19	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		06/21/19 11:19	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		06/21/19 11:19	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		06/21/19 11:19	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		06/21/19 11:19	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		06/21/19 11:19	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		06/21/19 11:19	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		06/21/19 11:19	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		06/21/19 11:19	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		06/21/19 11:19	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		06/21/19 11:19	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/21/19 11:19	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		06/21/19 11:19	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		06/21/19 11:19	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		06/21/19 11:19	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		06/21/19 11:19	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		06/21/19 11:19	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		06/21/19 11:19	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		06/21/19 11:19	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		06/21/19 11:19	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		06/21/19 11:19	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		06/21/19 11:19	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		06/21/19 11:19	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		06/21/19 11:19	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		06/21/19 11:19	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		06/21/19 11:19	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		06/21/19 11:19	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		06/21/19 11:19	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		06/21/19 11:19	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		06/21/19 11:19	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		06/21/19 11:19	100-42-5	
Tetrachloroethene	0.58J	ug/L	1.1	0.33	1		06/21/19 11:19	127-18-4	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189793

**Sample: MW-29**      **Lab ID: 40189793003**      Collected: 06/19/19 09:57      Received: 06/20/19 10:10      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Toluene	<0.17	ug/L	5.0	0.17	1		06/21/19 11:19	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		06/21/19 11:19	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		06/21/19 11:19	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		06/21/19 11:19	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		06/21/19 11:19	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		06/21/19 11:19	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		06/21/19 11:19	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		06/21/19 11:19	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		06/21/19 11:19	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		06/21/19 11:19	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		06/21/19 11:19	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		06/21/19 11:19	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		06/21/19 11:19	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		06/21/19 11:19	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		06/21/19 11:19	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	95	%	70-130		1		06/21/19 11:19	460-00-4	
Dibromofluoromethane (S)	115	%	70-130		1		06/21/19 11:19	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		06/21/19 11:19	2037-26-5	

<b>300.0 IC Anions</b> Analytical Method: EPA 300.0									
Nitrate as N	5.1	mg/L	1.1	0.38	5		06/21/19 12:19	14797-55-8	H5
Sulfate	448	mg/L	60.0	20.0	20		06/20/19 17:52	14808-79-8	

<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	280	mg/L	23.5	7.0	1		06/21/19 11:06		

**Sample: MW-27**      **Lab ID: 40189793004**      Collected: 06/19/19 12:15      Received: 06/20/19 10:10      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Ethane	<0.58	ug/L	5.6	0.58	1		06/21/19 10:26	74-84-0	
Ethene	<0.52	ug/L	5.0	0.52	1		06/21/19 10:26	74-85-1	
<b>6010 MET ICP, Dissolved</b> Analytical Method: EPA 6010									
Iron, Dissolved	2870	ug/L	118	35.4	1		06/25/19 23:10	7439-89-6	
Manganese, Dissolved	835	ug/L	5.0	1.1	1		06/25/19 23:10	7439-96-5	
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		06/21/19 11:41	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/21/19 11:41	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		06/21/19 11:41	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		06/21/19 11:41	79-00-5	

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ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189793

Sample: MW-27 Lab ID: 40189793004 Collected: 06/19/19 12:15 Received: 06/20/19 10:10 Matrix: Water

Table with columns: Parameters, Results, Units, LOQ, LOD, DF, Prepared, Analyzed, CAS No., Qual. Includes list of 50 chemical compounds and their detection results.

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189793

**Sample:** MW-27      **Lab ID:** 40189793004      Collected: 06/19/19 12:15      Received: 06/20/19 10:10      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
cis-1,2-Dichloroethene	0.42J	ug/L	1.0	0.27	1		06/21/19 11:41	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		06/21/19 11:41	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		06/21/19 11:41	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		06/21/19 11:41	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		06/21/19 11:41	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		06/21/19 11:41	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		06/21/19 11:41	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		06/21/19 11:41	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		06/21/19 11:41	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		06/21/19 11:41	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		06/21/19 11:41	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	95	%	70-130		1		06/21/19 11:41	460-00-4	
Dibromofluoromethane (S)	115	%	70-130		1		06/21/19 11:41	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		06/21/19 11:41	2037-26-5	
<b>300.0 IC Anions</b> Analytical Method: EPA 300.0									
Nitrate as N	<0.38	mg/L	1.1	0.38	5		06/20/19 18:05	14797-55-8	D3
Sulfate	<5.0	mg/L	15.0	5.0	5		06/20/19 18:05	14808-79-8	D3
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	488	mg/L	47.0	14.1	2		06/21/19 11:09		

**Sample:** DUP-3      **Lab ID:** 40189793005      Collected: 06/19/19 12:15      Received: 06/20/19 10:10      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<26.9	ug/L	100	26.9	100		06/22/19 02:06	630-20-6	
1,1,1-Trichloroethane	<24.5	ug/L	100	24.5	100		06/22/19 02:06	71-55-6	
1,1,2,2-Tetrachloroethane	<27.5	ug/L	100	27.5	100		06/22/19 02:06	79-34-5	
1,1,2-Trichloroethane	<55.2	ug/L	500	55.2	100		06/22/19 02:06	79-00-5	
1,1-Dichloroethane	<27.3	ug/L	100	27.3	100		06/22/19 02:06	75-34-3	
1,1-Dichloroethene	<24.5	ug/L	100	24.5	100		06/22/19 02:06	75-35-4	
1,1-Dichloropropene	<54.0	ug/L	180	54.0	100		06/22/19 02:06	563-58-6	
1,2,3-Trichlorobenzene	<62.6	ug/L	500	62.6	100		06/22/19 02:06	87-61-6	
1,2,3-Trichloropropane	<59.1	ug/L	500	59.1	100		06/22/19 02:06	96-18-4	
1,2,4-Trichlorobenzene	<95.1	ug/L	500	95.1	100		06/22/19 02:06	120-82-1	
1,2,4-Trimethylbenzene	<84.1	ug/L	280	84.1	100		06/22/19 02:06	95-63-6	
1,2-Dibromo-3-chloropropane	<176	ug/L	588	176	100		06/22/19 02:06	96-12-8	
1,2-Dibromoethane (EDB)	<82.9	ug/L	276	82.9	100		06/22/19 02:06	106-93-4	
1,2-Dichlorobenzene	<70.5	ug/L	235	70.5	100		06/22/19 02:06	95-50-1	
1,2-Dichloroethane	<28.0	ug/L	100	28.0	100		06/22/19 02:06	107-06-2	
1,2-Dichloropropane	<28.3	ug/L	100	28.3	100		06/22/19 02:06	78-87-5	

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## ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189793

**Sample: DUP-3**      **Lab ID: 40189793005**      Collected: 06/19/19 12:15      Received: 06/20/19 10:10      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,3,5-Trimethylbenzene	<87.3	ug/L	291	87.3	100		06/22/19 02:06	108-67-8	
1,3-Dichlorobenzene	<62.8	ug/L	209	62.8	100		06/22/19 02:06	541-73-1	
1,3-Dichloropropane	<82.6	ug/L	275	82.6	100		06/22/19 02:06	142-28-9	
1,4-Dichlorobenzene	<94.4	ug/L	315	94.4	100		06/22/19 02:06	106-46-7	
2,2-Dichloropropane	<227	ug/L	755	227	100		06/22/19 02:06	594-20-7	
2-Chlorotoluene	<92.6	ug/L	500	92.6	100		06/22/19 02:06	95-49-8	
4-Chlorotoluene	<75.6	ug/L	252	75.6	100		06/22/19 02:06	106-43-4	
Benzene	<24.6	ug/L	100	24.6	100		06/22/19 02:06	71-43-2	
Bromobenzene	<24.1	ug/L	100	24.1	100		06/22/19 02:06	108-86-1	
Bromochloromethane	<36.2	ug/L	500	36.2	100		06/22/19 02:06	74-97-5	
Bromodichloromethane	<36.4	ug/L	121	36.4	100		06/22/19 02:06	75-27-4	
Bromoform	<397	ug/L	1320	397	100		06/22/19 02:06	75-25-2	
Bromomethane	<97.1	ug/L	500	97.1	100		06/22/19 02:06	74-83-9	
Carbon tetrachloride	<16.6	ug/L	100	16.6	100		06/22/19 02:06	56-23-5	
Chlorobenzene	<71.1	ug/L	237	71.1	100		06/22/19 02:06	108-90-7	
Chloroethane	<134	ug/L	500	134	100		06/22/19 02:06	75-00-3	
Chloroform	<127	ug/L	500	127	100		06/22/19 02:06	67-66-3	
Chloromethane	<219	ug/L	730	219	100		06/22/19 02:06	74-87-3	
Dibromochloromethane	<260	ug/L	867	260	100		06/22/19 02:06	124-48-1	
Dibromomethane	<93.7	ug/L	312	93.7	100		06/22/19 02:06	74-95-3	
Dichlorodifluoromethane	<50.0	ug/L	500	50.0	100		06/22/19 02:06	75-71-8	
Diisopropyl ether	<189	ug/L	629	189	100		06/22/19 02:06	108-20-3	
Ethylbenzene	<21.8	ug/L	100	21.8	100		06/22/19 02:06	100-41-4	
Hexachloro-1,3-butadiene	<118	ug/L	500	118	100		06/22/19 02:06	87-68-3	
Isopropylbenzene (Cumene)	<39.3	ug/L	500	39.3	100		06/22/19 02:06	98-82-8	
Methyl-tert-butyl ether	<125	ug/L	415	125	100		06/22/19 02:06	1634-04-4	
Methylene Chloride	<58.1	ug/L	500	58.1	100		06/22/19 02:06	75-09-2	
Naphthalene	<118	ug/L	500	118	100		06/22/19 02:06	91-20-3	
Styrene	<46.5	ug/L	155	46.5	100		06/22/19 02:06	100-42-5	
Tetrachloroethene	<32.6	ug/L	109	32.6	100		06/22/19 02:06	127-18-4	
Toluene	<17.2	ug/L	500	17.2	100		06/22/19 02:06	108-88-3	
Trichloroethene	15000	ug/L	100	25.5	100		06/22/19 02:06	79-01-6	
Trichlorofluoromethane	<21.5	ug/L	100	21.5	100		06/22/19 02:06	75-69-4	
Vinyl chloride	<17.5	ug/L	100	17.5	100		06/22/19 02:06	75-01-4	
cis-1,2-Dichloroethene	<27.1	ug/L	100	27.1	100		06/22/19 02:06	156-59-2	
cis-1,3-Dichloropropene	<363	ug/L	1210	363	100		06/22/19 02:06	10061-01-5	
m&p-Xylene	<46.5	ug/L	200	46.5	100		06/22/19 02:06	179601-23-1	
n-Butylbenzene	<70.8	ug/L	236	70.8	100		06/22/19 02:06	104-51-8	
n-Propylbenzene	<81.1	ug/L	500	81.1	100		06/22/19 02:06	103-65-1	
o-Xylene	<26.2	ug/L	100	26.2	100		06/22/19 02:06	95-47-6	
p-Isopropyltoluene	<80.0	ug/L	267	80.0	100		06/22/19 02:06	99-87-6	
sec-Butylbenzene	<84.9	ug/L	500	84.9	100		06/22/19 02:06	135-98-8	
tert-Butylbenzene	<30.4	ug/L	101	30.4	100		06/22/19 02:06	98-06-6	
trans-1,2-Dichloroethene	<109	ug/L	364	109	100		06/22/19 02:06	156-60-5	
trans-1,3-Dichloropropene	<437	ug/L	1460	437	100		06/22/19 02:06	10061-02-6	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189793

**Sample: DUP-3**      **Lab ID: 40189793005**      Collected: 06/19/19 12:15      Received: 06/20/19 10:10      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
<i>Surrogates</i>									
4-Bromofluorobenzene (S)	95	%	70-130		100		06/22/19 02:06	460-00-4	
Dibromofluoromethane (S)	116	%	70-130		100		06/22/19 02:06	1868-53-7	
Toluene-d8 (S)	96	%	70-130		100		06/22/19 02:06	2037-26-5	

**Sample: MW-2**      **Lab ID: 40189793006**      Collected: 06/19/19 14:20      Received: 06/20/19 10:10      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Ethane	<0.58	ug/L	5.6	0.58	1		06/21/19 10:33	74-84-0	
Ethene	<0.52	ug/L	5.0	0.52	1		06/21/19 10:33	74-85-1	

<b>6010 MET ICP, Dissolved</b> Analytical Method: EPA 6010									
Iron, Dissolved	<35.4	ug/L	118	35.4	1		06/25/19 23:12	7439-89-6	
Manganese, Dissolved	<1.1	ug/L	5.0	1.1	1		06/25/19 23:12	7439-96-5	

<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<26.9	ug/L	100	26.9	100		06/21/19 09:49	630-20-6	
1,1,1-Trichloroethane	<24.5	ug/L	100	24.5	100		06/21/19 09:49	71-55-6	
1,1,2,2-Tetrachloroethane	<27.5	ug/L	100	27.5	100		06/21/19 09:49	79-34-5	
1,1,2-Trichloroethane	<55.2	ug/L	500	55.2	100		06/21/19 09:49	79-00-5	
1,1-Dichloroethane	<27.3	ug/L	100	27.3	100		06/21/19 09:49	75-34-3	
1,1-Dichloroethene	<24.5	ug/L	100	24.5	100		06/21/19 09:49	75-35-4	
1,1-Dichloropropene	<54.0	ug/L	180	54.0	100		06/21/19 09:49	563-58-6	
1,2,3-Trichlorobenzene	<62.6	ug/L	500	62.6	100		06/21/19 09:49	87-61-6	
1,2,3-Trichloropropane	<59.1	ug/L	500	59.1	100		06/21/19 09:49	96-18-4	
1,2,4-Trichlorobenzene	<95.1	ug/L	500	95.1	100		06/21/19 09:49	120-82-1	
1,2,4-Trimethylbenzene	<84.1	ug/L	280	84.1	100		06/21/19 09:49	95-63-6	
1,2-Dibromo-3-chloropropane	<176	ug/L	588	176	100		06/21/19 09:49	96-12-8	
1,2-Dibromoethane (EDB)	<82.9	ug/L	276	82.9	100		06/21/19 09:49	106-93-4	
1,2-Dichlorobenzene	<70.5	ug/L	235	70.5	100		06/21/19 09:49	95-50-1	
1,2-Dichloroethane	<28.0	ug/L	100	28.0	100		06/21/19 09:49	107-06-2	
1,2-Dichloropropane	<28.3	ug/L	100	28.3	100		06/21/19 09:49	78-87-5	
1,3,5-Trimethylbenzene	<87.3	ug/L	291	87.3	100		06/21/19 09:49	108-67-8	
1,3-Dichlorobenzene	<62.8	ug/L	209	62.8	100		06/21/19 09:49	541-73-1	
1,3-Dichloropropane	<82.6	ug/L	275	82.6	100		06/21/19 09:49	142-28-9	
1,4-Dichlorobenzene	<94.4	ug/L	315	94.4	100		06/21/19 09:49	106-46-7	
2,2-Dichloropropane	<227	ug/L	755	227	100		06/21/19 09:49	594-20-7	
2-Chlorotoluene	<92.6	ug/L	500	92.6	100		06/21/19 09:49	95-49-8	
4-Chlorotoluene	<75.6	ug/L	252	75.6	100		06/21/19 09:49	106-43-4	
Benzene	<24.6	ug/L	100	24.6	100		06/21/19 09:49	71-43-2	
Bromobenzene	<24.1	ug/L	100	24.1	100		06/21/19 09:49	108-86-1	
Bromochloromethane	<36.2	ug/L	500	36.2	100		06/21/19 09:49	74-97-5	

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## ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189793

**Sample: MW-2**      **Lab ID: 40189793006**      Collected: 06/19/19 14:20      Received: 06/20/19 10:10      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Bromodichloromethane	<36.4	ug/L	121	36.4	100		06/21/19 09:49	75-27-4	
Bromoform	<397	ug/L	1320	397	100		06/21/19 09:49	75-25-2	
Bromomethane	<97.1	ug/L	500	97.1	100		06/21/19 09:49	74-83-9	
Carbon tetrachloride	<16.6	ug/L	100	16.6	100		06/21/19 09:49	56-23-5	
Chlorobenzene	<71.1	ug/L	237	71.1	100		06/21/19 09:49	108-90-7	
Chloroethane	<134	ug/L	500	134	100		06/21/19 09:49	75-00-3	
Chloroform	<127	ug/L	500	127	100		06/21/19 09:49	67-66-3	
Chloromethane	<219	ug/L	730	219	100		06/21/19 09:49	74-87-3	
Dibromochloromethane	<260	ug/L	867	260	100		06/21/19 09:49	124-48-1	
Dibromomethane	<93.7	ug/L	312	93.7	100		06/21/19 09:49	74-95-3	
Dichlorodifluoromethane	<50.0	ug/L	500	50.0	100		06/21/19 09:49	75-71-8	
Diisopropyl ether	<189	ug/L	629	189	100		06/21/19 09:49	108-20-3	
Ethylbenzene	<21.8	ug/L	100	21.8	100		06/21/19 09:49	100-41-4	
Hexachloro-1,3-butadiene	<118	ug/L	500	118	100		06/21/19 09:49	87-68-3	
Isopropylbenzene (Cumene)	<39.3	ug/L	500	39.3	100		06/21/19 09:49	98-82-8	
Methyl-tert-butyl ether	<125	ug/L	415	125	100		06/21/19 09:49	1634-04-4	
Methylene Chloride	<58.1	ug/L	500	58.1	100		06/21/19 09:49	75-09-2	
Naphthalene	<118	ug/L	500	118	100		06/21/19 09:49	91-20-3	
Styrene	<46.5	ug/L	155	46.5	100		06/21/19 09:49	100-42-5	
Tetrachloroethene	<32.6	ug/L	109	32.6	100		06/21/19 09:49	127-18-4	
Toluene	<17.2	ug/L	500	17.2	100		06/21/19 09:49	108-88-3	
Trichloroethene	16400	ug/L	100	25.5	100		06/21/19 09:49	79-01-6	
Trichlorofluoromethane	<21.5	ug/L	100	21.5	100		06/21/19 09:49	75-69-4	
Vinyl chloride	<17.5	ug/L	100	17.5	100		06/21/19 09:49	75-01-4	
cis-1,2-Dichloroethene	<27.1	ug/L	100	27.1	100		06/21/19 09:49	156-59-2	
cis-1,3-Dichloropropene	<363	ug/L	1210	363	100		06/21/19 09:49	10061-01-5	
m&p-Xylene	<46.5	ug/L	200	46.5	100		06/21/19 09:49	179601-23-1	
n-Butylbenzene	<70.8	ug/L	236	70.8	100		06/21/19 09:49	104-51-8	
n-Propylbenzene	<81.1	ug/L	500	81.1	100		06/21/19 09:49	103-65-1	
o-Xylene	<26.2	ug/L	100	26.2	100		06/21/19 09:49	95-47-6	
p-Isopropyltoluene	<80.0	ug/L	267	80.0	100		06/21/19 09:49	99-87-6	
sec-Butylbenzene	<84.9	ug/L	500	84.9	100		06/21/19 09:49	135-98-8	
tert-Butylbenzene	<30.4	ug/L	101	30.4	100		06/21/19 09:49	98-06-6	
trans-1,2-Dichloroethene	<109	ug/L	364	109	100		06/21/19 09:49	156-60-5	
trans-1,3-Dichloropropene	<437	ug/L	1460	437	100		06/21/19 09:49	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		100		06/21/19 09:49	460-00-4	
Dibromofluoromethane (S)	114	%	70-130		100		06/21/19 09:49	1868-53-7	
Toluene-d8 (S)	96	%	70-130		100		06/21/19 09:49	2037-26-5	
<b>300.0 IC Anions</b> Analytical Method: EPA 300.0									
Nitrate as N	0.14J	mg/L	0.22	0.075	1		06/20/19 18:57	14797-55-8	
Sulfate	90.1	mg/L	15.0	5.0	5		06/21/19 13:11	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	304	mg/L	23.5	7.0	1		06/21/19 11:10		

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189793

**Sample: MW-2**      **Lab ID: 40189793006**      Collected: 06/19/19 14:20      Received: 06/20/19 10:10      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>5310C TOC</b> Analytical Method: SM 5310C									
Total Organic Carbon	3.0	mg/L	0.84	0.25	1		06/21/19 17:33	7440-44-0	

**Sample: RW-14**      **Lab ID: 40189793007**      Collected: 06/19/19 15:37      Received: 06/20/19 10:10      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<2.7	ug/L	10.0	2.7	10		06/21/19 10:12	630-20-6	
1,1,1-Trichloroethane	57.7	ug/L	10.0	2.4	10		06/21/19 10:12	71-55-6	
1,1,2,2-Tetrachloroethane	<2.8	ug/L	10.0	2.8	10		06/21/19 10:12	79-34-5	
1,1,2-Trichloroethane	<5.5	ug/L	50.0	5.5	10		06/21/19 10:12	79-00-5	
1,1-Dichloroethane	22.7	ug/L	10.0	2.7	10		06/21/19 10:12	75-34-3	
1,1-Dichloroethene	<2.4	ug/L	10.0	2.4	10		06/21/19 10:12	75-35-4	
1,1-Dichloropropene	<5.4	ug/L	18.0	5.4	10		06/21/19 10:12	563-58-6	
1,2,3-Trichlorobenzene	<6.3	ug/L	50.0	6.3	10		06/21/19 10:12	87-61-6	
1,2,3-Trichloropropane	<5.9	ug/L	50.0	5.9	10		06/21/19 10:12	96-18-4	
1,2,4-Trichlorobenzene	<9.5	ug/L	50.0	9.5	10		06/21/19 10:12	120-82-1	
1,2,4-Trimethylbenzene	<8.4	ug/L	28.0	8.4	10		06/21/19 10:12	95-63-6	
1,2-Dibromo-3-chloropropane	<17.6	ug/L	58.8	17.6	10		06/21/19 10:12	96-12-8	
1,2-Dibromoethane (EDB)	<8.3	ug/L	27.6	8.3	10		06/21/19 10:12	106-93-4	
1,2-Dichlorobenzene	<7.1	ug/L	23.5	7.1	10		06/21/19 10:12	95-50-1	
1,2-Dichloroethane	<2.8	ug/L	10.0	2.8	10		06/21/19 10:12	107-06-2	
1,2-Dichloropropane	<2.8	ug/L	10.0	2.8	10		06/21/19 10:12	78-87-5	
1,3,5-Trimethylbenzene	<8.7	ug/L	29.1	8.7	10		06/21/19 10:12	108-67-8	
1,3-Dichlorobenzene	<6.3	ug/L	20.9	6.3	10		06/21/19 10:12	541-73-1	
1,3-Dichloropropane	<8.3	ug/L	27.5	8.3	10		06/21/19 10:12	142-28-9	
1,4-Dichlorobenzene	<9.4	ug/L	31.5	9.4	10		06/21/19 10:12	106-46-7	
2,2-Dichloropropane	<22.7	ug/L	75.5	22.7	10		06/21/19 10:12	594-20-7	
2-Chlorotoluene	<9.3	ug/L	50.0	9.3	10		06/21/19 10:12	95-49-8	
4-Chlorotoluene	<7.6	ug/L	25.2	7.6	10		06/21/19 10:12	106-43-4	
Benzene	<2.5	ug/L	10.0	2.5	10		06/21/19 10:12	71-43-2	
Bromobenzene	<2.4	ug/L	10.0	2.4	10		06/21/19 10:12	108-86-1	
Bromochloromethane	<3.6	ug/L	50.0	3.6	10		06/21/19 10:12	74-97-5	
Bromodichloromethane	<3.6	ug/L	12.1	3.6	10		06/21/19 10:12	75-27-4	
Bromoform	<39.7	ug/L	132	39.7	10		06/21/19 10:12	75-25-2	
Bromomethane	<9.7	ug/L	50.0	9.7	10		06/21/19 10:12	74-83-9	
Carbon tetrachloride	<1.7	ug/L	10.0	1.7	10		06/21/19 10:12	56-23-5	
Chlorobenzene	<7.1	ug/L	23.7	7.1	10		06/21/19 10:12	108-90-7	
Chloroethane	<13.4	ug/L	50.0	13.4	10		06/21/19 10:12	75-00-3	
Chloroform	<12.7	ug/L	50.0	12.7	10		06/21/19 10:12	67-66-3	
Chloromethane	<21.9	ug/L	73.0	21.9	10		06/21/19 10:12	74-87-3	
Dibromochloromethane	<26.0	ug/L	86.7	26.0	10		06/21/19 10:12	124-48-1	
Dibromomethane	<9.4	ug/L	31.2	9.4	10		06/21/19 10:12	74-95-3	
Dichlorodifluoromethane	<5.0	ug/L	50.0	5.0	10		06/21/19 10:12	75-71-8	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189793

Sample: **RW-14** Lab ID: **40189793007** Collected: 06/19/19 15:37 Received: 06/20/19 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Diisopropyl ether	<18.9	ug/L	62.9	18.9	10		06/21/19 10:12	108-20-3	
Ethylbenzene	<2.2	ug/L	10.0	2.2	10		06/21/19 10:12	100-41-4	
Hexachloro-1,3-butadiene	<11.8	ug/L	50.0	11.8	10		06/21/19 10:12	87-68-3	
Isopropylbenzene (Cumene)	<3.9	ug/L	50.0	3.9	10		06/21/19 10:12	98-82-8	
Methyl-tert-butyl ether	<12.5	ug/L	41.5	12.5	10		06/21/19 10:12	1634-04-4	
Methylene Chloride	<5.8	ug/L	50.0	5.8	10		06/21/19 10:12	75-09-2	
Naphthalene	24.7J	ug/L	50.0	11.8	10		06/21/19 10:12	91-20-3	
Styrene	<4.7	ug/L	15.5	4.7	10		06/21/19 10:12	100-42-5	
Tetrachloroethene	<3.3	ug/L	10.9	3.3	10		06/21/19 10:12	127-18-4	
Toluene	<1.7	ug/L	50.0	1.7	10		06/21/19 10:12	108-88-3	
Trichloroethene	31.0	ug/L	10.0	2.6	10		06/21/19 10:12	79-01-6	
Trichlorofluoromethane	<2.1	ug/L	10.0	2.1	10		06/21/19 10:12	75-69-4	
Vinyl chloride	112	ug/L	10.0	1.7	10		06/21/19 10:12	75-01-4	
cis-1,2-Dichloroethene	669	ug/L	10.0	2.7	10		06/21/19 10:12	156-59-2	
cis-1,3-Dichloropropene	<36.3	ug/L	121	36.3	10		06/21/19 10:12	10061-01-5	
m&p-Xylene	<4.7	ug/L	20.0	4.7	10		06/21/19 10:12	179601-23-1	
n-Butylbenzene	<7.1	ug/L	23.6	7.1	10		06/21/19 10:12	104-51-8	
n-Propylbenzene	<8.1	ug/L	50.0	8.1	10		06/21/19 10:12	103-65-1	
o-Xylene	<2.6	ug/L	10.0	2.6	10		06/21/19 10:12	95-47-6	
p-Isopropyltoluene	<8.0	ug/L	26.7	8.0	10		06/21/19 10:12	99-87-6	
sec-Butylbenzene	<8.5	ug/L	50.0	8.5	10		06/21/19 10:12	135-98-8	
tert-Butylbenzene	<3.0	ug/L	10.1	3.0	10		06/21/19 10:12	98-06-6	
trans-1,2-Dichloroethene	<10.9	ug/L	36.4	10.9	10		06/21/19 10:12	156-60-5	
trans-1,3-Dichloropropene	<43.7	ug/L	146	43.7	10		06/21/19 10:12	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		10		06/21/19 10:12	460-00-4	
Dibromofluoromethane (S)	115	%	70-130		10		06/21/19 10:12	1868-53-7	
Toluene-d8 (S)	97	%	70-130		10		06/21/19 10:12	2037-26-5	

Sample: **MW-19** Lab ID: **40189793008** Collected: 06/19/19 08:48 Received: 06/20/19 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Ethane	3.5J	ug/L	5.6	0.58	1		06/21/19 10:40	74-84-0	
Ethene	3.2J	ug/L	5.0	0.52	1		06/21/19 10:40	74-85-1	
<b>6010 MET ICP, Dissolved</b> Analytical Method: EPA 6010									
Iron, Dissolved	10500	ug/L	118	35.4	1		06/25/19 23:15	7439-89-6	
Manganese, Dissolved	950	ug/L	5.0	1.1	1		06/25/19 23:15	7439-96-5	
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		06/21/19 12:04	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/21/19 12:04	71-55-6	

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## ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189793

**Sample: MW-19**      **Lab ID: 40189793008**      Collected: 06/19/19 08:48      Received: 06/20/19 10:10      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		06/21/19 12:04	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		06/21/19 12:04	79-00-5	
1,1-Dichloroethane	0.66J	ug/L	1.0	0.27	1		06/21/19 12:04	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/21/19 12:04	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		06/21/19 12:04	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		06/21/19 12:04	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		06/21/19 12:04	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/21/19 12:04	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		06/21/19 12:04	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		06/21/19 12:04	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		06/21/19 12:04	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		06/21/19 12:04	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		06/21/19 12:04	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		06/21/19 12:04	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		06/21/19 12:04	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		06/21/19 12:04	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		06/21/19 12:04	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		06/21/19 12:04	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		06/21/19 12:04	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		06/21/19 12:04	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		06/21/19 12:04	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		06/21/19 12:04	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		06/21/19 12:04	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/21/19 12:04	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		06/21/19 12:04	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		06/21/19 12:04	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		06/21/19 12:04	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		06/21/19 12:04	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		06/21/19 12:04	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		06/21/19 12:04	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		06/21/19 12:04	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		06/21/19 12:04	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		06/21/19 12:04	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		06/21/19 12:04	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		06/21/19 12:04	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		06/21/19 12:04	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		06/21/19 12:04	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		06/21/19 12:04	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		06/21/19 12:04	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		06/21/19 12:04	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		06/21/19 12:04	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		06/21/19 12:04	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		06/21/19 12:04	100-42-5	
Tetrachloroethene	0.60J	ug/L	1.1	0.33	1		06/21/19 12:04	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		06/21/19 12:04	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		06/21/19 12:04	79-01-6	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189793

**Sample: MW-19**      **Lab ID: 40189793008**      Collected: 06/19/19 08:48      Received: 06/20/19 10:10      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		06/21/19 12:04	75-69-4	
Vinyl chloride	10.3	ug/L	1.0	0.17	1		06/21/19 12:04	75-01-4	
cis-1,2-Dichloroethene	1.5	ug/L	1.0	0.27	1		06/21/19 12:04	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		06/21/19 12:04	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		06/21/19 12:04	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		06/21/19 12:04	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		06/21/19 12:04	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		06/21/19 12:04	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		06/21/19 12:04	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		06/21/19 12:04	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		06/21/19 12:04	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		06/21/19 12:04	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		06/21/19 12:04	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		1		06/21/19 12:04	460-00-4	
Dibromofluoromethane (S)	114	%	70-130		1		06/21/19 12:04	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		06/21/19 12:04	2037-26-5	

<b>300.0 IC Anions</b> Analytical Method: EPA 300.0									
Nitrate as N	<0.38	mg/L	1.1	0.38	5		06/20/19 19:11	14797-55-8	D3
Sulfate	<5.0	mg/L	15.0	5.0	5		06/20/19 19:11	14808-79-8	D3

<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	560	mg/L	117	35.2	5		06/21/19 11:10		

**Sample: TRIP-1**      **Lab ID: 40189793009**      Collected: 06/19/19 00:00      Received: 06/20/19 10:10      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		06/22/19 01:21	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/22/19 01:21	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		06/22/19 01:21	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		06/22/19 01:21	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		06/22/19 01:21	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/22/19 01:21	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		06/22/19 01:21	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		06/22/19 01:21	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		06/22/19 01:21	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/22/19 01:21	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		06/22/19 01:21	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		06/22/19 01:21	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		06/22/19 01:21	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		06/22/19 01:21	95-50-1	

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## ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189793

**Sample: TRIP-1**      **Lab ID: 40189793009**      Collected: 06/19/19 00:00      Received: 06/20/19 10:10      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		06/22/19 01:21	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		06/22/19 01:21	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		06/22/19 01:21	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		06/22/19 01:21	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		06/22/19 01:21	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		06/22/19 01:21	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		06/22/19 01:21	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		06/22/19 01:21	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		06/22/19 01:21	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		06/22/19 01:21	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		06/22/19 01:21	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/22/19 01:21	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		06/22/19 01:21	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		06/22/19 01:21	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		06/22/19 01:21	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		06/22/19 01:21	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		06/22/19 01:21	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		06/22/19 01:21	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		06/22/19 01:21	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		06/22/19 01:21	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		06/22/19 01:21	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		06/22/19 01:21	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		06/22/19 01:21	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		06/22/19 01:21	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		06/22/19 01:21	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		06/22/19 01:21	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		06/22/19 01:21	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		06/22/19 01:21	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		06/22/19 01:21	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		06/22/19 01:21	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		06/22/19 01:21	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		06/22/19 01:21	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		06/22/19 01:21	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		06/22/19 01:21	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		06/22/19 01:21	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		06/22/19 01:21	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		06/22/19 01:21	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		06/22/19 01:21	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		06/22/19 01:21	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		06/22/19 01:21	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		06/22/19 01:21	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		06/22/19 01:21	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		06/22/19 01:21	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		06/22/19 01:21	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		06/22/19 01:21	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		06/22/19 01:21	156-60-5	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189793

Sample: TRIP-1 Lab ID: 40189793009 Collected: 06/19/19 00:00 Received: 06/20/19 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		06/22/19 01:21	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		1		06/22/19 01:21	460-00-4	HS
Dibromofluoromethane (S)	115	%	70-130		1		06/22/19 01:21	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		06/22/19 01:21	2037-26-5	

Sample: TRIP-2 Lab ID: 40189793010 Collected: 06/19/19 00:00 Received: 06/20/19 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		06/22/19 01:44	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/22/19 01:44	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		06/22/19 01:44	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		06/22/19 01:44	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		06/22/19 01:44	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/22/19 01:44	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		06/22/19 01:44	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		06/22/19 01:44	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		06/22/19 01:44	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/22/19 01:44	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		06/22/19 01:44	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		06/22/19 01:44	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		06/22/19 01:44	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		06/22/19 01:44	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		06/22/19 01:44	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		06/22/19 01:44	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		06/22/19 01:44	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		06/22/19 01:44	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		06/22/19 01:44	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		06/22/19 01:44	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		06/22/19 01:44	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		06/22/19 01:44	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		06/22/19 01:44	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		06/22/19 01:44	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		06/22/19 01:44	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/22/19 01:44	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		06/22/19 01:44	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		06/22/19 01:44	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		06/22/19 01:44	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		06/22/19 01:44	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		06/22/19 01:44	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		06/22/19 01:44	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		06/22/19 01:44	67-66-3	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189793

Sample: TRIP-2 Lab ID: 40189793010 Collected: 06/19/19 00:00 Received: 06/20/19 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Chloromethane	<2.2	ug/L	7.3	2.2	1		06/22/19 01:44	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		06/22/19 01:44	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		06/22/19 01:44	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		06/22/19 01:44	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		06/22/19 01:44	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		06/22/19 01:44	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		06/22/19 01:44	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		06/22/19 01:44	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		06/22/19 01:44	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		06/22/19 01:44	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		06/22/19 01:44	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		06/22/19 01:44	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		06/22/19 01:44	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		06/22/19 01:44	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		06/22/19 01:44	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		06/22/19 01:44	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		06/22/19 01:44	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		06/22/19 01:44	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		06/22/19 01:44	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		06/22/19 01:44	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		06/22/19 01:44	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		06/22/19 01:44	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		06/22/19 01:44	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		06/22/19 01:44	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		06/22/19 01:44	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		06/22/19 01:44	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		06/22/19 01:44	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		06/22/19 01:44	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		1		06/22/19 01:44	460-00-4	HS
Dibromofluoromethane (S)	114	%	70-130		1		06/22/19 01:44	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		06/22/19 01:44	2037-26-5	

Sample: MW-38 Lab ID: 40189793011 Collected: 06/19/19 09:21 Received: 06/20/19 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		06/21/19 14:18	630-20-6	
1,1,1-Trichloroethane	0.25J	ug/L	1.0	0.24	1		06/21/19 14:18	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		06/21/19 14:18	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		06/21/19 14:18	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		06/21/19 14:18	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/21/19 14:18	75-35-4	

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## ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189793

**Sample: MW-38**      **Lab ID: 40189793011**      Collected: 06/19/19 09:21      Received: 06/20/19 10:10      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		06/21/19 14:18	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		06/21/19 14:18	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		06/21/19 14:18	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/21/19 14:18	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		06/21/19 14:18	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		06/21/19 14:18	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		06/21/19 14:18	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		06/21/19 14:18	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		06/21/19 14:18	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		06/21/19 14:18	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		06/21/19 14:18	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		06/21/19 14:18	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		06/21/19 14:18	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		06/21/19 14:18	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		06/21/19 14:18	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		06/21/19 14:18	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		06/21/19 14:18	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		06/21/19 14:18	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		06/21/19 14:18	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/21/19 14:18	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		06/21/19 14:18	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		06/21/19 14:18	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		06/21/19 14:18	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		06/21/19 14:18	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		06/21/19 14:18	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		06/21/19 14:18	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		06/21/19 14:18	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		06/21/19 14:18	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		06/21/19 14:18	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		06/21/19 14:18	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		06/21/19 14:18	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		06/21/19 14:18	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		06/21/19 14:18	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		06/21/19 14:18	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		06/21/19 14:18	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		06/21/19 14:18	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		06/21/19 14:18	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		06/21/19 14:18	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		06/21/19 14:18	100-42-5	
Tetrachloroethene	0.43J	ug/L	1.1	0.33	1		06/21/19 14:18	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		06/21/19 14:18	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		06/21/19 14:18	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		06/21/19 14:18	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		06/21/19 14:18	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		06/21/19 14:18	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		06/21/19 14:18	10061-01-5	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189793

Sample: MW-38 Lab ID: 40189793011 Collected: 06/19/19 09:21 Received: 06/20/19 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		06/21/19 14:18	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		06/21/19 14:18	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		06/21/19 14:18	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		06/21/19 14:18	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		06/21/19 14:18	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		06/21/19 14:18	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		06/21/19 14:18	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		06/21/19 14:18	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		06/21/19 14:18	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		1		06/21/19 14:18	460-00-4	
Dibromofluoromethane (S)	115	%	70-130		1		06/21/19 14:18	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		06/21/19 14:18	2037-26-5	

Sample: MW-21 Lab ID: 40189793012 Collected: 06/19/19 10:14 Received: 06/20/19 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		06/21/19 12:27	630-20-6	
1,1,1-Trichloroethane	0.85J	ug/L	1.0	0.24	1		06/21/19 12:27	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		06/21/19 12:27	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		06/21/19 12:27	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		06/21/19 12:27	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/21/19 12:27	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		06/21/19 12:27	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		06/21/19 12:27	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		06/21/19 12:27	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/21/19 12:27	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		06/21/19 12:27	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		06/21/19 12:27	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		06/21/19 12:27	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		06/21/19 12:27	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		06/21/19 12:27	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		06/21/19 12:27	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		06/21/19 12:27	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		06/21/19 12:27	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		06/21/19 12:27	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		06/21/19 12:27	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		06/21/19 12:27	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		06/21/19 12:27	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		06/21/19 12:27	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		06/21/19 12:27	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		06/21/19 12:27	108-86-1	

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## ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189793

**Sample: MW-21**      **Lab ID: 40189793012**      Collected: 06/19/19 10:14      Received: 06/20/19 10:10      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/21/19 12:27	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		06/21/19 12:27	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		06/21/19 12:27	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		06/21/19 12:27	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		06/21/19 12:27	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		06/21/19 12:27	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		06/21/19 12:27	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		06/21/19 12:27	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		06/21/19 12:27	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		06/21/19 12:27	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		06/21/19 12:27	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		06/21/19 12:27	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		06/21/19 12:27	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		06/21/19 12:27	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		06/21/19 12:27	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		06/21/19 12:27	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		06/21/19 12:27	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		06/21/19 12:27	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		06/21/19 12:27	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		06/21/19 12:27	100-42-5	
Tetrachloroethene	0.65J	ug/L	1.1	0.33	1		06/21/19 12:27	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		06/21/19 12:27	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		06/21/19 12:27	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		06/21/19 12:27	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		06/21/19 12:27	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		06/21/19 12:27	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		06/21/19 12:27	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		06/21/19 12:27	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		06/21/19 12:27	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		06/21/19 12:27	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		06/21/19 12:27	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		06/21/19 12:27	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		06/21/19 12:27	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		06/21/19 12:27	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		06/21/19 12:27	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		06/21/19 12:27	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		1		06/21/19 12:27	460-00-4	
Dibromofluoromethane (S)	113	%	70-130		1		06/21/19 12:27	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		06/21/19 12:27	2037-26-5	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE  
Pace Project No.: 40189793

**Sample: MW-11**      **Lab ID: 40189793013**      Collected: 06/19/19 11:03      Received: 06/20/19 10:10      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b>		Analytical Method: EPA 8015B Modified							
Ethane	<0.58	ug/L	5.6	0.58	1		06/21/19 10:47	74-84-0	
Ethene	<0.52	ug/L	5.0	0.52	1		06/21/19 10:47	74-85-1	
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010							
Iron, Dissolved	<35.4	ug/L	118	35.4	1		06/25/19 23:17	7439-89-6	
Manganese, Dissolved	42.0	ug/L	5.0	1.1	1		06/25/19 23:17	7439-96-5	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		06/21/19 12:49	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/21/19 12:49	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		06/21/19 12:49	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		06/21/19 12:49	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		06/21/19 12:49	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/21/19 12:49	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		06/21/19 12:49	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		06/21/19 12:49	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		06/21/19 12:49	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/21/19 12:49	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		06/21/19 12:49	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		06/21/19 12:49	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		06/21/19 12:49	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		06/21/19 12:49	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		06/21/19 12:49	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		06/21/19 12:49	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		06/21/19 12:49	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		06/21/19 12:49	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		06/21/19 12:49	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		06/21/19 12:49	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		06/21/19 12:49	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		06/21/19 12:49	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		06/21/19 12:49	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		06/21/19 12:49	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		06/21/19 12:49	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/21/19 12:49	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		06/21/19 12:49	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		06/21/19 12:49	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		06/21/19 12:49	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		06/21/19 12:49	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		06/21/19 12:49	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		06/21/19 12:49	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		06/21/19 12:49	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		06/21/19 12:49	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		06/21/19 12:49	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		06/21/19 12:49	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		06/21/19 12:49	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		06/21/19 12:49	108-20-3	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189793

Sample: MW-11 Lab ID: 40189793013 Collected: 06/19/19 11:03 Received: 06/20/19 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		06/21/19 12:49	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		06/21/19 12:49	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		06/21/19 12:49	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		06/21/19 12:49	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		06/21/19 12:49	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		06/21/19 12:49	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		06/21/19 12:49	100-42-5	
Tetrachloroethene	0.70J	ug/L	1.1	0.33	1		06/21/19 12:49	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		06/21/19 12:49	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		06/21/19 12:49	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		06/21/19 12:49	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		06/21/19 12:49	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		06/21/19 12:49	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		06/21/19 12:49	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		06/21/19 12:49	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		06/21/19 12:49	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		06/21/19 12:49	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		06/21/19 12:49	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		06/21/19 12:49	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		06/21/19 12:49	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		06/21/19 12:49	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		06/21/19 12:49	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		06/21/19 12:49	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	95	%	70-130		1		06/21/19 12:49	460-00-4	
Dibromofluoromethane (S)	114	%	70-130		1		06/21/19 12:49	1868-53-7	
Toluene-d8 (S)	97	%	70-130		1		06/21/19 12:49	2037-26-5	
<b>300.0 IC Anions</b> Analytical Method: EPA 300.0									
Nitrate as N	2.3	mg/L	1.1	0.38	5		06/20/19 19:24	14797-55-8	
Sulfate	14.9J	mg/L	15.0	5.0	5		06/20/19 19:24	14808-79-8	D3
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	286	mg/L	23.5	7.0	1		06/21/19 11:11		
<b>5310C TOC</b> Analytical Method: SM 5310C									
Total Organic Carbon	1.9	mg/L	0.84	0.25	1		06/21/19 17:53	7440-44-0	

Sample: MW-42 Lab ID: 40189793014 Collected: 06/19/19 13:06 Received: 06/20/19 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<26.9	ug/L	100	26.9	100		06/22/19 02:28	630-20-6	

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## ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE  
Pace Project No.: 40189793

Sample: **MW-42** Lab ID: **40189793014** Collected: 06/19/19 13:06 Received: 06/20/19 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1-Trichloroethane	<24.5	ug/L	100	24.5	100		06/22/19 02:28	71-55-6	
1,1,2,2-Tetrachloroethane	<27.5	ug/L	100	27.5	100		06/22/19 02:28	79-34-5	
1,1,2-Trichloroethane	<55.2	ug/L	500	55.2	100		06/22/19 02:28	79-00-5	
1,1-Dichloroethane	<27.3	ug/L	100	27.3	100		06/22/19 02:28	75-34-3	
1,1-Dichloroethene	<24.5	ug/L	100	24.5	100		06/22/19 02:28	75-35-4	
1,1-Dichloropropene	<54.0	ug/L	180	54.0	100		06/22/19 02:28	563-58-6	
1,2,3-Trichlorobenzene	<62.6	ug/L	500	62.6	100		06/22/19 02:28	87-61-6	
1,2,3-Trichloropropane	<59.1	ug/L	500	59.1	100		06/22/19 02:28	96-18-4	
1,2,4-Trichlorobenzene	<95.1	ug/L	500	95.1	100		06/22/19 02:28	120-82-1	
1,2,4-Trimethylbenzene	<84.1	ug/L	280	84.1	100		06/22/19 02:28	95-63-6	
1,2-Dibromo-3-chloropropane	<176	ug/L	588	176	100		06/22/19 02:28	96-12-8	
1,2-Dibromoethane (EDB)	<82.9	ug/L	276	82.9	100		06/22/19 02:28	106-93-4	
1,2-Dichlorobenzene	<70.5	ug/L	235	70.5	100		06/22/19 02:28	95-50-1	
1,2-Dichloroethane	<28.0	ug/L	100	28.0	100		06/22/19 02:28	107-06-2	
1,2-Dichloropropane	<28.3	ug/L	100	28.3	100		06/22/19 02:28	78-87-5	
1,3,5-Trimethylbenzene	<87.3	ug/L	291	87.3	100		06/22/19 02:28	108-67-8	
1,3-Dichlorobenzene	<62.8	ug/L	209	62.8	100		06/22/19 02:28	541-73-1	
1,3-Dichloropropane	<82.6	ug/L	275	82.6	100		06/22/19 02:28	142-28-9	
1,4-Dichlorobenzene	<94.4	ug/L	315	94.4	100		06/22/19 02:28	106-46-7	
2,2-Dichloropropane	<227	ug/L	755	227	100		06/22/19 02:28	594-20-7	
2-Chlorotoluene	<92.6	ug/L	500	92.6	100		06/22/19 02:28	95-49-8	
4-Chlorotoluene	<75.6	ug/L	252	75.6	100		06/22/19 02:28	106-43-4	
Benzene	<24.6	ug/L	100	24.6	100		06/22/19 02:28	71-43-2	
Bromobenzene	<24.1	ug/L	100	24.1	100		06/22/19 02:28	108-86-1	
Bromochloromethane	<36.2	ug/L	500	36.2	100		06/22/19 02:28	74-97-5	
Bromodichloromethane	<36.4	ug/L	121	36.4	100		06/22/19 02:28	75-27-4	
Bromoform	<397	ug/L	1320	397	100		06/22/19 02:28	75-25-2	
Bromomethane	<97.1	ug/L	500	97.1	100		06/22/19 02:28	74-83-9	
Carbon tetrachloride	<16.6	ug/L	100	16.6	100		06/22/19 02:28	56-23-5	
Chlorobenzene	<71.1	ug/L	237	71.1	100		06/22/19 02:28	108-90-7	
Chloroethane	<134	ug/L	500	134	100		06/22/19 02:28	75-00-3	
Chloroform	<127	ug/L	500	127	100		06/22/19 02:28	67-66-3	
Chloromethane	<219	ug/L	730	219	100		06/22/19 02:28	74-87-3	
Dibromochloromethane	<260	ug/L	867	260	100		06/22/19 02:28	124-48-1	
Dibromomethane	<93.7	ug/L	312	93.7	100		06/22/19 02:28	74-95-3	
Dichlorodifluoromethane	<50.0	ug/L	500	50.0	100		06/22/19 02:28	75-71-8	
Diisopropyl ether	<189	ug/L	629	189	100		06/22/19 02:28	108-20-3	
Ethylbenzene	<21.8	ug/L	100	21.8	100		06/22/19 02:28	100-41-4	
Hexachloro-1,3-butadiene	<118	ug/L	500	118	100		06/22/19 02:28	87-68-3	
Isopropylbenzene (Cumene)	<39.3	ug/L	500	39.3	100		06/22/19 02:28	98-82-8	
Methyl-tert-butyl ether	<125	ug/L	415	125	100		06/22/19 02:28	1634-04-4	
Methylene Chloride	<58.1	ug/L	500	58.1	100		06/22/19 02:28	75-09-2	
Naphthalene	<118	ug/L	500	118	100		06/22/19 02:28	91-20-3	
Styrene	<46.5	ug/L	155	46.5	100		06/22/19 02:28	100-42-5	
Tetrachloroethene	<32.6	ug/L	109	32.6	100		06/22/19 02:28	127-18-4	
Toluene	<17.2	ug/L	500	17.2	100		06/22/19 02:28	108-88-3	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189793

Sample: MW-42 Lab ID: 40189793014 Collected: 06/19/19 13:06 Received: 06/20/19 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Trichloroethene	5180	ug/L	100	25.5	100		06/22/19 02:28	79-01-6	
Trichlorofluoromethane	<21.5	ug/L	100	21.5	100		06/22/19 02:28	75-69-4	
Vinyl chloride	<17.5	ug/L	100	17.5	100		06/22/19 02:28	75-01-4	
cis-1,2-Dichloroethene	<27.1	ug/L	100	27.1	100		06/22/19 02:28	156-59-2	
cis-1,3-Dichloropropene	<363	ug/L	1210	363	100		06/22/19 02:28	10061-01-5	
m&p-Xylene	<46.5	ug/L	200	46.5	100		06/22/19 02:28	179601-23-1	
n-Butylbenzene	<70.8	ug/L	236	70.8	100		06/22/19 02:28	104-51-8	
n-Propylbenzene	<81.1	ug/L	500	81.1	100		06/22/19 02:28	103-65-1	
o-Xylene	<26.2	ug/L	100	26.2	100		06/22/19 02:28	95-47-6	
p-Isopropyltoluene	<80.0	ug/L	267	80.0	100		06/22/19 02:28	99-87-6	
sec-Butylbenzene	<84.9	ug/L	500	84.9	100		06/22/19 02:28	135-98-8	
tert-Butylbenzene	<30.4	ug/L	101	30.4	100		06/22/19 02:28	98-06-6	
trans-1,2-Dichloroethene	<109	ug/L	364	109	100		06/22/19 02:28	156-60-5	
trans-1,3-Dichloropropene	<437	ug/L	1460	437	100		06/22/19 02:28	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		100		06/22/19 02:28	460-00-4	
Dibromofluoromethane (S)	115	%	70-130		100		06/22/19 02:28	1868-53-7	
Toluene-d8 (S)	97	%	70-130		100		06/22/19 02:28	2037-26-5	

Sample: MW-41 Lab ID: 40189793015 Collected: 06/19/19 13:37 Received: 06/20/19 10:10 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		06/21/19 14:41	630-20-6	
1,1,1-Trichloroethane	1.9	ug/L	1.0	0.24	1		06/21/19 14:41	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		06/21/19 14:41	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		06/21/19 14:41	79-00-5	
1,1-Dichloroethane	0.64J	ug/L	1.0	0.27	1		06/21/19 14:41	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/21/19 14:41	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		06/21/19 14:41	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		06/21/19 14:41	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		06/21/19 14:41	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/21/19 14:41	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		06/21/19 14:41	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		06/21/19 14:41	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		06/21/19 14:41	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		06/21/19 14:41	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		06/21/19 14:41	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		06/21/19 14:41	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		06/21/19 14:41	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		06/21/19 14:41	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		06/21/19 14:41	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		06/21/19 14:41	106-46-7	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189793

**Sample: MW-41**      **Lab ID: 40189793015**      Collected: 06/19/19 13:37      Received: 06/20/19 10:10      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		06/21/19 14:41	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		06/21/19 14:41	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		06/21/19 14:41	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		06/21/19 14:41	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		06/21/19 14:41	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/21/19 14:41	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		06/21/19 14:41	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		06/21/19 14:41	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		06/21/19 14:41	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		06/21/19 14:41	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		06/21/19 14:41	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		06/21/19 14:41	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		06/21/19 14:41	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		06/21/19 14:41	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		06/21/19 14:41	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		06/21/19 14:41	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		06/21/19 14:41	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		06/21/19 14:41	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		06/21/19 14:41	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		06/21/19 14:41	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		06/21/19 14:41	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		06/21/19 14:41	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		06/21/19 14:41	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		06/21/19 14:41	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		06/21/19 14:41	100-42-5	
Tetrachloroethene	1.5	ug/L	1.1	0.33	1		06/21/19 14:41	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		06/21/19 14:41	108-88-3	
Trichloroethene	27.7	ug/L	1.0	0.26	1		06/21/19 14:41	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		06/21/19 14:41	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		06/21/19 14:41	75-01-4	
cis-1,2-Dichloroethene	0.39J	ug/L	1.0	0.27	1		06/21/19 14:41	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		06/21/19 14:41	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		06/21/19 14:41	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		06/21/19 14:41	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		06/21/19 14:41	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		06/21/19 14:41	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		06/21/19 14:41	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		06/21/19 14:41	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		06/21/19 14:41	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		06/21/19 14:41	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		06/21/19 14:41	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		1		06/21/19 14:41	460-00-4	
Dibromofluoromethane (S)	114	%	70-130		1		06/21/19 14:41	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		06/21/19 14:41	2037-26-5	

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## ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE  
Pace Project No.: 40189793

**Sample: MW-4A**      **Lab ID: 40189793016**      Collected: 06/19/19 14:27      Received: 06/20/19 10:10      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		06/21/19 13:11	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/21/19 13:11	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		06/21/19 13:11	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		06/21/19 13:11	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		06/21/19 13:11	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/21/19 13:11	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		06/21/19 13:11	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		06/21/19 13:11	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		06/21/19 13:11	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/21/19 13:11	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		06/21/19 13:11	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		06/21/19 13:11	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		06/21/19 13:11	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		06/21/19 13:11	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		06/21/19 13:11	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		06/21/19 13:11	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		06/21/19 13:11	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		06/21/19 13:11	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		06/21/19 13:11	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		06/21/19 13:11	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		06/21/19 13:11	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		06/21/19 13:11	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		06/21/19 13:11	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		06/21/19 13:11	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		06/21/19 13:11	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/21/19 13:11	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		06/21/19 13:11	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		06/21/19 13:11	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		06/21/19 13:11	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		06/21/19 13:11	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		06/21/19 13:11	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		06/21/19 13:11	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		06/21/19 13:11	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		06/21/19 13:11	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		06/21/19 13:11	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		06/21/19 13:11	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		06/21/19 13:11	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		06/21/19 13:11	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		06/21/19 13:11	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		06/21/19 13:11	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		06/21/19 13:11	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		06/21/19 13:11	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		06/21/19 13:11	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		06/21/19 13:11	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		06/21/19 13:11	100-42-5	
Tetrachloroethene	2.3	ug/L	1.1	0.33	1		06/21/19 13:11	127-18-4	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189793

**Sample: MW-4A**      **Lab ID: 40189793016**      Collected: 06/19/19 14:27      Received: 06/20/19 10:10      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Toluene	<0.17	ug/L	5.0	0.17	1		06/21/19 13:11	108-88-3	
Trichloroethene	0.46J	ug/L	1.0	0.26	1		06/21/19 13:11	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		06/21/19 13:11	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		06/21/19 13:11	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		06/21/19 13:11	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		06/21/19 13:11	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		06/21/19 13:11	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		06/21/19 13:11	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		06/21/19 13:11	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		06/21/19 13:11	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		06/21/19 13:11	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		06/21/19 13:11	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		06/21/19 13:11	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		06/21/19 13:11	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		06/21/19 13:11	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		1		06/21/19 13:11	460-00-4	
Dibromofluoromethane (S)	114	%	70-130		1		06/21/19 13:11	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		06/21/19 13:11	2037-26-5	

**Sample: MW-4**      **Lab ID: 40189793017**      Collected: 06/19/19 15:10      Received: 06/20/19 10:10      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b> Analytical Method: EPA 8015B Modified									
Ethane	<0.58	ug/L	5.6	0.58	1		06/21/19 10:54	74-84-0	
Ethene	<0.52	ug/L	5.0	0.52	1		06/21/19 10:54	74-85-1	
<b>6010 MET ICP, Dissolved</b> Analytical Method: EPA 6010									
Iron, Dissolved	<35.4	ug/L	118	35.4	1		06/25/19 23:20	7439-89-6	
Manganese, Dissolved	<1.1	ug/L	5.0	1.1	1		06/25/19 23:20	7439-96-5	
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.67	ug/L	2.5	0.67	2.5		06/21/19 10:34	630-20-6	
1,1,1-Trichloroethane	3.2	ug/L	2.5	0.61	2.5		06/21/19 10:34	71-55-6	
1,1,2,2-Tetrachloroethane	<0.69	ug/L	2.5	0.69	2.5		06/21/19 10:34	79-34-5	
1,1,2-Trichloroethane	<1.4	ug/L	12.5	1.4	2.5		06/21/19 10:34	79-00-5	
1,1-Dichloroethane	<0.68	ug/L	2.5	0.68	2.5		06/21/19 10:34	75-34-3	
1,1-Dichloroethene	<0.61	ug/L	2.5	0.61	2.5		06/21/19 10:34	75-35-4	
1,1-Dichloropropene	<1.4	ug/L	4.5	1.4	2.5		06/21/19 10:34	563-58-6	
1,2,3-Trichlorobenzene	<1.6	ug/L	12.5	1.6	2.5		06/21/19 10:34	87-61-6	
1,2,3-Trichloropropane	<1.5	ug/L	12.5	1.5	2.5		06/21/19 10:34	96-18-4	
1,2,4-Trichlorobenzene	<2.4	ug/L	12.5	2.4	2.5		06/21/19 10:34	120-82-1	
1,2,4-Trimethylbenzene	<2.1	ug/L	7.0	2.1	2.5		06/21/19 10:34	95-63-6	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189793

**Sample: MW-4**      **Lab ID: 40189793017**      Collected: 06/19/19 15:10      Received: 06/20/19 10:10      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,2-Dibromo-3-chloropropane	<4.4	ug/L	14.7	4.4	2.5		06/21/19 10:34	96-12-8	
1,2-Dibromoethane (EDB)	<2.1	ug/L	6.9	2.1	2.5		06/21/19 10:34	106-93-4	
1,2-Dichlorobenzene	<1.8	ug/L	5.9	1.8	2.5		06/21/19 10:34	95-50-1	
1,2-Dichloroethane	<0.70	ug/L	2.5	0.70	2.5		06/21/19 10:34	107-06-2	
1,2-Dichloropropane	<0.71	ug/L	2.5	0.71	2.5		06/21/19 10:34	78-87-5	
1,3,5-Trimethylbenzene	<2.2	ug/L	7.3	2.2	2.5		06/21/19 10:34	108-67-8	
1,3-Dichlorobenzene	<1.6	ug/L	5.2	1.6	2.5		06/21/19 10:34	541-73-1	
1,3-Dichloropropane	<2.1	ug/L	6.9	2.1	2.5		06/21/19 10:34	142-28-9	
1,4-Dichlorobenzene	<2.4	ug/L	7.9	2.4	2.5		06/21/19 10:34	106-46-7	
2,2-Dichloropropane	<5.7	ug/L	18.9	5.7	2.5		06/21/19 10:34	594-20-7	
2-Chlorotoluene	<2.3	ug/L	12.5	2.3	2.5		06/21/19 10:34	95-49-8	
4-Chlorotoluene	<1.9	ug/L	6.3	1.9	2.5		06/21/19 10:34	106-43-4	
Benzene	<0.62	ug/L	2.5	0.62	2.5		06/21/19 10:34	71-43-2	
Bromobenzene	<0.60	ug/L	2.5	0.60	2.5		06/21/19 10:34	108-86-1	
Bromochloromethane	<0.91	ug/L	12.5	0.91	2.5		06/21/19 10:34	74-97-5	
Bromodichloromethane	<0.91	ug/L	3.0	0.91	2.5		06/21/19 10:34	75-27-4	
Bromoform	<9.9	ug/L	33.1	9.9	2.5		06/21/19 10:34	75-25-2	
Bromomethane	<2.4	ug/L	12.5	2.4	2.5		06/21/19 10:34	74-83-9	
Carbon tetrachloride	<0.41	ug/L	2.5	0.41	2.5		06/21/19 10:34	56-23-5	
Chlorobenzene	<1.8	ug/L	5.9	1.8	2.5		06/21/19 10:34	108-90-7	
Chloroethane	<3.4	ug/L	12.5	3.4	2.5		06/21/19 10:34	75-00-3	
Chloroform	<3.2	ug/L	12.5	3.2	2.5		06/21/19 10:34	67-66-3	
Chloromethane	<5.5	ug/L	18.2	5.5	2.5		06/21/19 10:34	74-87-3	
Dibromochloromethane	<6.5	ug/L	21.7	6.5	2.5		06/21/19 10:34	124-48-1	
Dibromomethane	<2.3	ug/L	7.8	2.3	2.5		06/21/19 10:34	74-95-3	
Dichlorodifluoromethane	<1.2	ug/L	12.5	1.2	2.5		06/21/19 10:34	75-71-8	
Diisopropyl ether	<4.7	ug/L	15.7	4.7	2.5		06/21/19 10:34	108-20-3	
Ethylbenzene	<0.55	ug/L	2.5	0.55	2.5		06/21/19 10:34	100-41-4	
Hexachloro-1,3-butadiene	<3.0	ug/L	12.5	3.0	2.5		06/21/19 10:34	87-68-3	
Isopropylbenzene (Cumene)	<0.98	ug/L	12.5	0.98	2.5		06/21/19 10:34	98-82-8	
Methyl-tert-butyl ether	<3.1	ug/L	10.4	3.1	2.5		06/21/19 10:34	1634-04-4	
Methylene Chloride	<1.5	ug/L	12.5	1.5	2.5		06/21/19 10:34	75-09-2	
Naphthalene	<2.9	ug/L	12.5	2.9	2.5		06/21/19 10:34	91-20-3	
Styrene	<1.2	ug/L	3.9	1.2	2.5		06/21/19 10:34	100-42-5	
Tetrachloroethene	2.9	ug/L	2.7	0.82	2.5		06/21/19 10:34	127-18-4	
Toluene	<0.43	ug/L	12.5	0.43	2.5		06/21/19 10:34	108-88-3	
Trichloroethene	112	ug/L	2.5	0.64	2.5		06/21/19 10:34	79-01-6	
Trichlorofluoromethane	<0.54	ug/L	2.5	0.54	2.5		06/21/19 10:34	75-69-4	
Vinyl chloride	<0.44	ug/L	2.5	0.44	2.5		06/21/19 10:34	75-01-4	
cis-1,2-Dichloroethene	1.8J	ug/L	2.5	0.68	2.5		06/21/19 10:34	156-59-2	
cis-1,3-Dichloropropene	<9.1	ug/L	30.2	9.1	2.5		06/21/19 10:34	10061-01-5	
m&p-Xylene	<1.2	ug/L	5.0	1.2	2.5		06/21/19 10:34	179601-23-1	
n-Butylbenzene	<1.8	ug/L	5.9	1.8	2.5		06/21/19 10:34	104-51-8	
n-Propylbenzene	<2.0	ug/L	12.5	2.0	2.5		06/21/19 10:34	103-65-1	
o-Xylene	<0.65	ug/L	2.5	0.65	2.5		06/21/19 10:34	95-47-6	
p-Isopropyltoluene	<2.0	ug/L	6.7	2.0	2.5		06/21/19 10:34	99-87-6	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189793

**Sample: MW-4**      **Lab ID: 40189793017**      Collected: 06/19/19 15:10      Received: 06/20/19 10:10      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
sec-Butylbenzene	<2.1	ug/L	12.5	2.1	2.5		06/21/19 10:34	135-98-8	
tert-Butylbenzene	<0.76	ug/L	2.5	0.76	2.5		06/21/19 10:34	98-06-6	
trans-1,2-Dichloroethene	<2.7	ug/L	9.1	2.7	2.5		06/21/19 10:34	156-60-5	
trans-1,3-Dichloropropene	<10.9	ug/L	36.4	10.9	2.5		06/21/19 10:34	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	95	%	70-130		2.5		06/21/19 10:34	460-00-4	
Dibromofluoromethane (S)	114	%	70-130		2.5		06/21/19 10:34	1868-53-7	
Toluene-d8 (S)	97	%	70-130		2.5		06/21/19 10:34	2037-26-5	
<b>300.0 IC Anions</b>		Analytical Method: EPA 300.0							
Nitrate as N	<0.075	mg/L	0.22	0.075	1		06/20/19 19:37	14797-55-8	
Sulfate	40.9	mg/L	3.0	1.0	1		06/20/19 19:37	14808-79-8	M0
<b>310.2 Alkalinity</b>		Analytical Method: EPA 310.2							
Alkalinity, Total as CaCO3	252	mg/L	23.5	7.0	1		06/21/19 11:11		

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE  
Pace Project No.: 40189793

QC Batch: 325198 Analysis Method: EPA 8015B Modified  
QC Batch Method: EPA 8015B Modified Analysis Description: Methane, Ethane, Ethene GCV  
Associated Lab Samples: 40189793001, 40189793002, 40189793003, 40189793004, 40189793006, 40189793008, 40189793013, 40189793017

METHOD BLANK: 1887989 Matrix: Water  
Associated Lab Samples: 40189793001, 40189793002, 40189793003, 40189793004, 40189793006, 40189793008, 40189793013, 40189793017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	<0.58	5.6	06/21/19 07:42	
Ethene	ug/L	<0.52	5.0	06/21/19 07:42	

LABORATORY CONTROL SAMPLE & LCSD: 1887990 1887991

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	52.5	98	98	80-120	0	20	
Ethene	ug/L	50	48.6	48.6	97	97	80-120	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1887992 1887993

Parameter	Units	40189713002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Ethane	ug/L	<0.58	53.6	53.6	49.8	48.0	93	90	80-120	4	20	
Ethene	ug/L	<0.52	50	50	47.0	45.1	94	90	80-120	4	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1887994 1887995

Parameter	Units	40189789005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Ethane	ug/L	<0.58	53.6	53.6	51.4	51.5	96	96	80-120	0	20	
Ethene	ug/L	<0.52	50	50	47.7	47.8	95	96	80-120	0	20	

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### QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE  
Pace Project No.: 40189793

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QC Batch: 325662 Analysis Method: EPA 6010  
QC Batch Method: EPA 6010 Analysis Description: ICP Metals, Trace, Dissolved  
Associated Lab Samples: 40189793001, 40189793002, 40189793003, 40189793004, 40189793006, 40189793008, 40189793013, 40189793017

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METHOD BLANK: 1890747 Matrix: Water  
Associated Lab Samples: 40189793001, 40189793002, 40189793003, 40189793004, 40189793006, 40189793008, 40189793013, 40189793017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Dissolved	ug/L	<35.4	118	06/25/19 22:23	
Manganese, Dissolved	ug/L	<1.1	5.0	06/25/19 22:23	

LABORATORY CONTROL SAMPLE: 1890748

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	ug/L	5000	4480	90	80-120	
Manganese, Dissolved	ug/L	500	456	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1890749 1890750

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40189699002 Result	Spike Conc.	Spike Conc.	MS Result								
Iron, Dissolved	ug/L	7020	5000	5000	11400	11400	87	87	75-125	0	20		
Manganese, Dissolved	ug/L	2260	500	500	2680	2670	84	82	75-125	0	20		

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### QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189793

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QC Batch: 325183 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV  
 Associated Lab Samples: 40189793001, 40189793002, 40189793003, 40189793004, 40189793005, 40189793006, 40189793007,  
 40189793008, 40189793009, 40189793010, 40189793011, 40189793012, 40189793013, 40189793014,  
 40189793015, 40189793016, 40189793017

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METHOD BLANK: 1887937 Matrix: Water  
 Associated Lab Samples: 40189793001, 40189793002, 40189793003, 40189793004, 40189793005, 40189793006, 40189793007,  
 40189793008, 40189793009, 40189793010, 40189793011, 40189793012, 40189793013, 40189793014,  
 40189793015, 40189793016, 40189793017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	06/21/19 06:49	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	06/21/19 06:49	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	06/21/19 06:49	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	06/21/19 06:49	
1,1-Dichloroethane	ug/L	<0.27	1.0	06/21/19 06:49	
1,1-Dichloroethene	ug/L	<0.24	1.0	06/21/19 06:49	
1,1-Dichloropropene	ug/L	<0.54	1.8	06/21/19 06:49	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	06/21/19 06:49	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	06/21/19 06:49	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	06/21/19 06:49	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	06/21/19 06:49	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	06/21/19 06:49	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	06/21/19 06:49	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	06/21/19 06:49	
1,2-Dichloroethane	ug/L	<0.28	1.0	06/21/19 06:49	
1,2-Dichloropropane	ug/L	<0.28	1.0	06/21/19 06:49	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	06/21/19 06:49	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	06/21/19 06:49	
1,3-Dichloropropane	ug/L	<0.83	2.8	06/21/19 06:49	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	06/21/19 06:49	
2,2-Dichloropropane	ug/L	<2.3	7.6	06/21/19 06:49	
2-Chlorotoluene	ug/L	<0.93	5.0	06/21/19 06:49	
4-Chlorotoluene	ug/L	<0.76	2.5	06/21/19 06:49	
Benzene	ug/L	<0.25	1.0	06/21/19 06:49	
Bromobenzene	ug/L	<0.24	1.0	06/21/19 06:49	
Bromochloromethane	ug/L	<0.36	5.0	06/21/19 06:49	
Bromodichloromethane	ug/L	<0.36	1.2	06/21/19 06:49	
Bromoform	ug/L	<4.0	13.2	06/21/19 06:49	
Bromomethane	ug/L	<0.97	5.0	06/21/19 06:49	
Carbon tetrachloride	ug/L	<0.17	1.0	06/21/19 06:49	
Chlorobenzene	ug/L	<0.71	2.4	06/21/19 06:49	
Chloroethane	ug/L	<1.3	5.0	06/21/19 06:49	
Chloroform	ug/L	<1.3	5.0	06/21/19 06:49	
Chloromethane	ug/L	<2.2	7.3	06/21/19 06:49	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	06/21/19 06:49	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	06/21/19 06:49	
Dibromochloromethane	ug/L	<2.6	8.7	06/21/19 06:49	
Dibromomethane	ug/L	<0.94	3.1	06/21/19 06:49	

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### QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189793

METHOD BLANK: 1887937

Matrix: Water

Associated Lab Samples: 40189793001, 40189793002, 40189793003, 40189793004, 40189793005, 40189793006, 40189793007, 40189793008, 40189793009, 40189793010, 40189793011, 40189793012, 40189793013, 40189793014, 40189793015, 40189793016, 40189793017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	<0.50	5.0	06/21/19 06:49	
Diisopropyl ether	ug/L	<1.9	6.3	06/21/19 06:49	
Ethylbenzene	ug/L	<0.22	1.0	06/21/19 06:49	
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	06/21/19 06:49	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	06/21/19 06:49	
m&p-Xylene	ug/L	<0.47	2.0	06/21/19 06:49	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	06/21/19 06:49	
Methylene Chloride	ug/L	<0.58	5.0	06/21/19 06:49	
n-Butylbenzene	ug/L	<0.71	2.4	06/21/19 06:49	
n-Propylbenzene	ug/L	<0.81	5.0	06/21/19 06:49	
Naphthalene	ug/L	<1.2	5.0	06/21/19 06:49	
o-Xylene	ug/L	<0.26	1.0	06/21/19 06:49	
p-Isopropyltoluene	ug/L	<0.80	2.7	06/21/19 06:49	
sec-Butylbenzene	ug/L	<0.85	5.0	06/21/19 06:49	
Styrene	ug/L	<0.47	1.6	06/21/19 06:49	
tert-Butylbenzene	ug/L	<0.30	1.0	06/21/19 06:49	
Tetrachloroethene	ug/L	<0.33	1.1	06/21/19 06:49	
Toluene	ug/L	<0.17	5.0	06/21/19 06:49	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	06/21/19 06:49	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	06/21/19 06:49	
Trichloroethene	ug/L	<0.26	1.0	06/21/19 06:49	
Trichlorofluoromethane	ug/L	<0.21	1.0	06/21/19 06:49	
Vinyl chloride	ug/L	<0.17	1.0	06/21/19 06:49	
4-Bromofluorobenzene (S)	%	95	70-130	06/21/19 06:49	
Dibromofluoromethane (S)	%	112	70-130	06/21/19 06:49	
Toluene-d8 (S)	%	97	70-130	06/21/19 06:49	

LABORATORY CONTROL SAMPLE: 1887938

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	51.9	104	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	47.1	94	70-130	
1,1,2-Trichloroethane	ug/L	50	49.2	98	70-130	
1,1-Dichloroethane	ug/L	50	50.9	102	73-150	
1,1-Dichloroethene	ug/L	50	50.8	102	73-138	
1,2,4-Trichlorobenzene	ug/L	50	43.6	87	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	36.6	73	64-129	
1,2-Dibromoethane (EDB)	ug/L	50	46.2	92	70-130	
1,2-Dichlorobenzene	ug/L	50	47.2	94	70-130	
1,2-Dichloroethane	ug/L	50	51.1	102	75-140	
1,2-Dichloropropane	ug/L	50	54.3	109	73-135	
1,3-Dichlorobenzene	ug/L	50	47.6	95	70-130	

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### QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189793

LABORATORY CONTROL SAMPLE: 1887938

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	48.4	97	70-130	
Benzene	ug/L	50	58.0	116	70-130	
Bromodichloromethane	ug/L	50	49.1	98	70-130	
Bromoform	ug/L	50	38.9	78	68-129	
Bromomethane	ug/L	50	31.6	63	18-159	
Carbon tetrachloride	ug/L	50	51.9	104	70-130	
Chlorobenzene	ug/L	50	49.4	99	70-130	
Chloroethane	ug/L	50	46.0	92	53-147	
Chloroform	ug/L	50	53.6	107	74-136	
Chloromethane	ug/L	50	31.0	62	29-115	
cis-1,2-Dichloroethene	ug/L	50	62.8	126	70-130	
cis-1,3-Dichloropropene	ug/L	50	46.4	93	70-130	
Dibromochloromethane	ug/L	50	45.5	91	70-130	
Dichlorodifluoromethane	ug/L	50	23.3	47	10-130	
Ethylbenzene	ug/L	50	51.2	102	80-124	
Isopropylbenzene (Cumene)	ug/L	50	50.5	101	70-130	
m&p-Xylene	ug/L	100	103	103	70-130	
Methyl-tert-butyl ether	ug/L	50	43.0	86	54-137	
Methylene Chloride	ug/L	50	52.2	104	73-138	
o-Xylene	ug/L	50	49.8	100	70-130	
Styrene	ug/L	50	51.1	102	70-130	
Tetrachloroethene	ug/L	50	48.9	98	70-130	
Toluene	ug/L	50	50.6	101	80-126	
trans-1,2-Dichloroethene	ug/L	50	51.2	102	73-145	
trans-1,3-Dichloropropene	ug/L	50	41.2	82	70-130	
Trichloroethene	ug/L	50	53.6	107	70-130	
Trichlorofluoromethane	ug/L	50	50.5	101	76-147	
Vinyl chloride	ug/L	50	39.1	78	51-120	
4-Bromofluorobenzene (S)	%			99	70-130	
Dibromofluoromethane (S)	%			111	70-130	
Toluene-d8 (S)	%			97	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1887974 1887975

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40189793002 Result	Spike Conc.	Spike Conc.	Conc.								
1,1,1-Trichloroethane	ug/L	<0.24	50	50	52.7	54.5	105	109	70-130	3	20		
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	47.4	48.7	95	97	70-130	3	20		
1,1,2-Trichloroethane	ug/L	<0.55	50	50	49.8	50.9	100	102	70-137	2	20		
1,1-Dichloroethane	ug/L	<0.27	50	50	52.3	54.4	105	109	73-153	4	20		
1,1-Dichloroethene	ug/L	<0.24	50	50	55.0	57.1	110	114	73-138	4	20		
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	44.6	46.2	89	92	70-130	3	20		
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	37.6	38.8	75	78	58-129	3	20		
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	47.2	48.2	94	96	70-130	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.: 40189793

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1887974		1887975		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40189793002 Result	MS Spike Conc.	MSD Spike Conc.									
1,2-Dichlorobenzene	ug/L	<0.71	50	50	47.3	48.8	95	98	70-130	3	20		
1,2-Dichloroethane	ug/L	<0.28	50	50	50.0	53.5	100	107	75-140	7	20		
1,2-Dichloropropane	ug/L	<0.28	50	50	53.2	55.3	106	111	71-138	4	20		
1,3-Dichlorobenzene	ug/L	<0.63	50	50	47.6	49.2	95	98	70-130	3	20		
1,4-Dichlorobenzene	ug/L	<0.94	50	50	48.6	50.4	97	101	70-130	4	20		
Benzene	ug/L	<0.25	50	50	58.3	61.0	117	122	70-130	5	20		
Bromodichloromethane	ug/L	<0.36	50	50	48.4	50.9	97	102	70-130	5	20		
Bromoform	ug/L	<4.0	50	50	39.3	40.5	79	81	68-129	3	20		
Bromomethane	ug/L	<0.97	50	50	45.9	48.8	92	98	15-170	6	20		
Carbon tetrachloride	ug/L	<0.17	50	50	53.2	55.7	106	111	70-130	5	20		
Chlorobenzene	ug/L	<0.71	50	50	49.6	51.4	99	103	70-130	4	20		
Chloroethane	ug/L	<1.3	50	50	55.3	54.0	111	108	51-148	2	20		
Chloroform	ug/L	<1.3	50	50	53.5	55.7	107	111	74-136	4	20		
Chloromethane	ug/L	<2.2	50	50	45.5	45.4	91	91	23-115	0	20		
cis-1,2-Dichloroethene	ug/L	<0.27	50	50	63.1	65.7	126	131	70-131	4	20		
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	46.1	48.7	92	97	70-130	5	20		
Dibromochloromethane	ug/L	<2.6	50	50	45.4	47.2	91	94	70-130	4	20		
Dichlorodifluoromethane	ug/L	<0.50	50	50	45.5	47.4	91	95	10-132	4	20		
Ethylbenzene	ug/L	<0.22	50	50	51.5	53.3	103	107	80-125	3	20		
Isopropylbenzene (Cumene)	ug/L	<0.39	50	50	50.6	52.6	101	105	70-130	4	20		
m&p-Xylene	ug/L	<0.47	100	100	103	107	103	107	70-130	4	20		
Methyl-tert-butyl ether	ug/L	<1.2	50	50	43.3	44.9	87	90	51-145	4	20		
Methylene Chloride	ug/L	<0.58	50	50	53.2	55.6	106	111	73-140	5	20		
o-Xylene	ug/L	<0.26	50	50	49.8	51.9	100	104	70-130	4	20		
Styrene	ug/L	<0.47	50	50	51.1	53.0	102	106	70-130	4	20		
Tetrachloroethene	ug/L	0.47J	50	50	49.6	51.0	98	101	70-130	3	20		
Toluene	ug/L	<0.17	50	50	51.2	52.7	102	105	80-131	3	20		
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	53.1	55.2	106	110	73-148	4	20		
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	42.0	43.1	84	86	70-130	3	20		
Trichloroethene	ug/L	<0.26	50	50	52.9	55.8	106	112	70-130	5	20		
Trichlorofluoromethane	ug/L	<0.21	50	50	56.7	58.5	113	117	74-147	3	20		
Vinyl chloride	ug/L	<0.17	50	50	51.4	53.4	103	107	41-129	4	20		
4-Bromofluorobenzene (S)	%						99	100	70-130				
Dibromofluoromethane (S)	%						110	111	70-130				
Toluene-d8 (S)	%						97	98	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.: 40189793

QC Batch: 325129 Analysis Method: EPA 300.0  
 QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions  
 Associated Lab Samples: 40189793001, 40189793002, 40189793003, 40189793004, 40189793006, 40189793008, 40189793013, 40189793017

METHOD BLANK: 1887385 Matrix: Water  
 Associated Lab Samples: 40189793001, 40189793002, 40189793003, 40189793004, 40189793006, 40189793008, 40189793013, 40189793017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate as N	mg/L	<0.075	0.22	06/20/19 10:20	
Sulfate	mg/L	<1.0	3.0	06/20/19 10:20	

LABORATORY CONTROL SAMPLE: 1887386

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/L	1.5	1.6	107	90-110	
Sulfate	mg/L	20	21.7	109	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1887387 1887388

Parameter	Units	40189780001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate as N	mg/L	2.6	1.5	1.5	3.9	3.9	85	86	90-110	0	15	M0
Sulfate	mg/L	11.1	20	20	30.9	31.0	99	99	90-110	0	15	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1887523 1887524

Parameter	Units	40189793017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate as N	mg/L	<0.075	1.5	1.5	1.5	1.5	99	100	90-110	1	15	
Sulfate	mg/L	40.9	20	20	58.8	58.6	89	88	90-110	0	15	M0

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### QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189793

QC Batch:	325197	Analysis Method:	EPA 310.2
QC Batch Method:	EPA 310.2	Analysis Description:	310.2 Alkalinity
Associated Lab Samples:	40189793001, 40189793002, 40189793003, 40189793004, 40189793006, 40189793008, 40189793013, 40189793017		

METHOD BLANK:	1887983	Matrix:	Water
Associated Lab Samples:	40189793001, 40189793002, 40189793003, 40189793004, 40189793006, 40189793008, 40189793013, 40189793017		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	<7.0	23.5	06/21/19 11:03	

LABORATORY CONTROL SAMPLE: 1887984						
Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	100	94.1	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1887985												1887986	
Parameter	Units	40189793001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Alkalinity, Total as CaCO3	mg/L	269	200	200	348	350	39	41	90-110	1	20	M0	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1887987												1887988	
Parameter	Units	40189795003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
Alkalinity, Total as CaCO3	mg/L	2110	2000	2000	4120	4120	100	101	90-110	0	20		

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### QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE  
Pace Project No.: 40189793

QC Batch: 325184 Analysis Method: SM 5310C  
QC Batch Method: SM 5310C Analysis Description: 5310C Total Organic Carbon  
Associated Lab Samples: 40189793006, 40189793013

METHOD BLANK: 1887939 Matrix: Water  
Associated Lab Samples: 40189793006, 40189793013

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<0.25	0.84	06/21/19 10:56	

LABORATORY CONTROL SAMPLE: 1887940

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	2.5	2.5	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1887941 1887942

Parameter	Units	40189673001		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Total Organic Carbon	mg/L	3.3	1	1	4.3	4.4	109	113	80-120	1	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1887943 1887944

Parameter	Units	40189699008		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
Total Organic Carbon	mg/L	6.7	6	6	13.4	13.0	111	105	80-120	3	10		

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## QUALIFIERS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189793

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### 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.

H5 Reanalysis conducted in excess of EPA method holding time. Results confirm original analysis performed in hold time.

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

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.: 40189793

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40189793001	MW-1R	EPA 8015B Modified	325198		
40189793002	MW-25	EPA 8015B Modified	325198		
40189793003	MW-29	EPA 8015B Modified	325198		
40189793004	MW-27	EPA 8015B Modified	325198		
40189793006	MW-2	EPA 8015B Modified	325198		
40189793008	MW-19	EPA 8015B Modified	325198		
40189793013	MW-11	EPA 8015B Modified	325198		
40189793017	MW-4	EPA 8015B Modified	325198		
40189793001	MW-1R	EPA 6010	325662		
40189793002	MW-25	EPA 6010	325662		
40189793003	MW-29	EPA 6010	325662		
40189793004	MW-27	EPA 6010	325662		
40189793006	MW-2	EPA 6010	325662		
40189793008	MW-19	EPA 6010	325662		
40189793013	MW-11	EPA 6010	325662		
40189793017	MW-4	EPA 6010	325662		
40189793001	MW-1R	EPA 8260	325183		
40189793002	MW-25	EPA 8260	325183		
40189793003	MW-29	EPA 8260	325183		
40189793004	MW-27	EPA 8260	325183		
40189793005	DUP-3	EPA 8260	325183		
40189793006	MW-2	EPA 8260	325183		
40189793007	RW-14	EPA 8260	325183		
40189793008	MW-19	EPA 8260	325183		
40189793009	TRIP-1	EPA 8260	325183		
40189793010	TRIP-2	EPA 8260	325183		
40189793011	MW-38	EPA 8260	325183		
40189793012	MW-21	EPA 8260	325183		
40189793013	MW-11	EPA 8260	325183		
40189793014	MW-42	EPA 8260	325183		
40189793015	MW-41	EPA 8260	325183		
40189793016	MW-4A	EPA 8260	325183		
40189793017	MW-4	EPA 8260	325183		
40189793001	MW-1R	EPA 300.0	325129		
40189793002	MW-25	EPA 300.0	325129		
40189793003	MW-29	EPA 300.0	325129		
40189793004	MW-27	EPA 300.0	325129		
40189793006	MW-2	EPA 300.0	325129		
40189793008	MW-19	EPA 300.0	325129		
40189793013	MW-11	EPA 300.0	325129		
40189793017	MW-4	EPA 300.0	325129		
40189793001	MW-1R	EPA 310.2	325197		
40189793002	MW-25	EPA 310.2	325197		
40189793003	MW-29	EPA 310.2	325197		
40189793004	MW-27	EPA 310.2	325197		
40189793006	MW-2	EPA 310.2	325197		
40189793008	MW-19	EPA 310.2	325197		

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189793

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40189793013	MW-11	EPA 310.2	325197		
40189793017	MW-4	EPA 310.2	325197		
40189793006	MW-2	SM 5310C	325184		
40189793013	MW-11	SM 5310C	325184		

### REPORT OF LABORATORY ANALYSIS

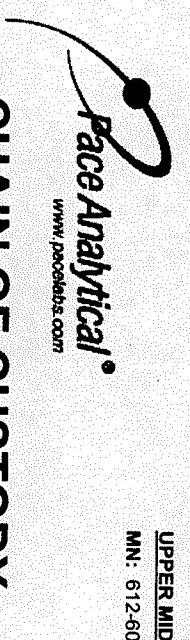
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(Please Print Clearly)

Company Name: **721, 603 Environmental Inc**  
 Branch/Location: **Northville**  
 Project Contact: **Kevin Helinger**  
 Phone: **962-424-1761**  
 Project Number: **200155935.01**  
 Project Name: **Top 1 Take**  
 Project State: **MI**  
 Sampled By (Print): **Alex Amundson**  
 Sampled By (Sign): *Alex Amundson*  
 PO #: \_\_\_\_\_  
 Regulatory Program: \_\_\_\_\_

**Data Package Options**  
 EPA Level III  On your sample (billable)  
 EPA Level IV  NOT needed on your sample

**Matrix Codes**  
 A = Air, B = Bioa, C = Charcoal, O = Oil, S = Soil, SI = Sludge  
 W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Waste



### CHAIN OF CUSTODY

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

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

PAGE LAB #	CLIENT FIELD ID	DATE	COLLECTION TIME	MATRIX	Analyses Requested							
					V/I	Pick Letter						
001	MW-1R	6/19/14	1334	GW	N	B	Y	N	N	N	N	
002	MW-2S	6/19/14	1852	GW	Y	D	Y	Y	Y	Y	Y	
003	MW-29	6/19/14	1957	GW	Y	D	Y	Y	Y	Y	Y	
004	MW-27	6/19/14	1215	GW	Y	D	Y	Y	Y	Y	Y	
005	DUP-3	6/19/14	-	GW	Y	D	Y	Y	Y	Y	Y	
006	MW-2	6/19/14	1430	GW	Y	D	Y	Y	Y	Y	Y	
007	PLV-14	6/19/14	1537	GW	Y	D	Y	Y	Y	Y	Y	
008	MW-14	6/19/14	848	GW	Y	D	Y	Y	Y	Y	Y	
009	TOP-1	6/19/14	-	GW	Y	D	Y	Y	Y	Y	Y	
010	TOP-2	6/19/14	-	GW	Y	D	Y	Y	Y	Y	Y	

**Rush Turnaround Time Requested - Prelims**  
 (Rush TAT subject to approval/surcharge)  
 Date Needed: \_\_\_\_\_

Transmit Prelim Rush Results by (complete what you want):  
 Email #1: \_\_\_\_\_  
 Email #2: \_\_\_\_\_  
 Telephone: \_\_\_\_\_  
 Fax: \_\_\_\_\_

Relinquished By: *Alex Amundson* Date/Time: **6/19/14 1600**  
 Relinquished By: *Fred EX* Date/Time: **6/20/14 1610**  
 Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received By: *Fred EX* Date/Time: **6/19/14 1730**  
 Received By: *John F* Date/Time: **6/20/14 1010**  
 Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Special pricing and release of liability

Quote #: \_\_\_\_\_  
 Mail To Contact: \_\_\_\_\_  
 Mail To Company: \_\_\_\_\_  
 Mail To Address: \_\_\_\_\_  
 Invoice To Contact: \_\_\_\_\_  
 Invoice To Company: \_\_\_\_\_  
 Invoice To Address: \_\_\_\_\_  
 Invoice To Phone: \_\_\_\_\_  
 CLIENT COMMENTS: \_\_\_\_\_  
 LAB COMMENTS (Lab Use Only): **gud**  
 Profile # \_\_\_\_\_

PAGE Project No. **40189793**  
 Receipt Temp = **80.1** °C  
 Sample Receipt pH **OK**  
 Cooler Custody Seal **Present / Not Present**  
 (Intact) (Not Intact)

(Please Print Clearly)

Company Name: **672 Geo Environmental Inc.**

Branch/Location: **Wadena**

Project Contact: **Kim Hillinger**

Phone: **262-424-7761**

Project Number: **20-0155435.01**

Project Name: **Trout Lake**

Project State: **WI**

Sampled By (Print): **Alex Amundson**

Sampled By (Sign): *Alex Amundson*

PO #: \_\_\_\_\_

Regulatory Program: \_\_\_\_\_

Data Package Options (billable)

MSMSD (billable)

On your sample (billable)

NOT needed on your sample

EPA Level III

EPA Level IV

A = Air

B = Biota

C = Charcoal

O = Oil

S = Soil

SI = Sludge

W = Water

DW = Drinking Water

GW = Ground Water

SW = Surface Water

MW = Waste Water

WP = Waste



# CHAIN OF CUSTODY

RESERVED? (YES/NO) \_\_\_\_\_  
PRESERVATION (CODE): \_\_\_\_\_

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

Y/N	Pick Letter	VOC	Dissolved Mn+Fe	Ethane + Ethene	Nitrate + Sulfate	TOC	Alkalinity
N	R	X	X	X	X	X	X
Y	D	X	X	X	X	X	X
N	R	X	X	X	X	X	X
N	A	X	X	X	X	X	X
N	A	X	X	X	X	X	X
N	A	X	X	X	X	X	X

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)  
Date Needed: \_\_\_\_\_

Relinquished By: *[Signature]*  
Date/Time: **6/19 1730**

Received By: *[Signature]*  
Date/Time: **6/19 1730**

Relinquished By: *[Signature]*  
Date/Time: **6/20/19 1010**

Received By: *[Signature]*  
Date/Time: **6/20/19 1920**

UPPER MIDWEST REGION  
MN: 612-807-1700 WI: 920-469-2436

Page 1 of 2

40189793

Quote #: \_\_\_\_\_

Mail To Contact: \_\_\_\_\_

Mail To Company: \_\_\_\_\_

Mail To Address: \_\_\_\_\_

Invoice To Contact: *[Signature]*

Invoice To Company: \_\_\_\_\_

Invoice To Address: \_\_\_\_\_

Invoice To Phone: \_\_\_\_\_

CLIENT COMMENTS

LAB COMMENTS (Lab Use Only)

Profile #

PAGE Project No. **40189793**

Receipt Temp = **20.1** °C  
Sample Receipt pH **OK / Adjusted**  
C-300mk Custody Seal Present / Not Present Intact / Not Intact

# Sample Preservation Receipt Form

Client Name: 622A Project # 46189793

All containers needing preservation have been checked and noted below:  Yes  No  N/A

Lab Lot# of pH paper: (D) 033581

Lab Sid #/ID of preservation (if pH adjusted):

Initial when completed: PS

Date/Time:


Page Analytical Services, LLC  
1241 Bellevue Street, Suite 55  
Green Bay, WI 54302  
Page 2

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												2.5/5/10
009												2.5/5/10
010												2.5/5/10
011												2.5/5/10
012												2.5/5/10
013												2.5/5/10
014												2.5/5/10
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,  TOX, TOH, O&G, WI DRO, Phenolics, Other: \_\_\_\_\_

Headspace in VOA Vials (>6mm):  Yes  No  N/A \*If Yes look in Headspace column

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

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

### Sample Condition Upon Receipt Form (SCUR)

Client Name: GZA Project #: \_\_\_\_\_

Courier:  CS Logistics  Fed Ex  Speedee  UPS  Waltco  
 Client  Pace Other: \_\_\_\_\_

Tracking #: 8148 6938 6214

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: 201 /Corr: \_\_\_\_\_

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

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

Person examining contents:  
 Date: 6/20/17  
 Initials: PG

**WO#: 40189793**



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: - VOA Samples frozen upon receipt	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No	5. Date/Time:
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <u>6/20/17</u>	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	7.
Sufficient Volume: 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		8.
Correct Containers Used: -Pace Containers Used: -Pace IR Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	9.
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: -Includes date/time/ID/Analysis Matrix: <u>W</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
Trip Blank Present: Trip Blank Custody Seals Present Pace Trip Blank Lot # (if purchased):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	13.

**Client Notification/ Resolution:** \_\_\_\_\_ If checked, see attached form for additional comments

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution: \_\_\_\_\_

Project Manager Review: CH Date: 6/20/17

June 25, 2019

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

RE: Project: 20.0155935.01 TRENT TUBE  
Pace Project No.: 40189917

Dear Kevin Hedinger:

Enclosed are the analytical results for sample(s) received by the laboratory on June 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 TRENT TUBE

Pace Project No.: 40189917

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### 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

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189917

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40189917001	RW-13	Water	06/20/19 09:21	06/21/19 10:20
40189917002	RW-12	Water	06/20/19 10:03	06/21/19 10:20
40189917003	RW-11	Water	06/20/19 10:37	06/21/19 10:20
40189917004	OP-10	Water	06/20/19 11:24	06/21/19 10:20
40189917005	RW-10	Water	06/20/19 11:55	06/21/19 10:20
40189917006	RW-28	Water	06/20/19 12:23	06/21/19 10:20
40189917007	OP-8	Water	06/20/19 13:16	06/21/19 10:20
40189917008	RW-7	Water	06/20/19 13:52	06/21/19 10:20
40189917009	RW-27	Water	06/20/19 14:24	06/21/19 10:20
40189917010	OP-7	Water	06/20/19 15:01	06/21/19 10:20
40189917011	DUP-5	Water	06/20/19 00:00	06/21/19 10:20
40189917012	TRIP-1	Water	06/20/19 00:00	06/21/19 10:20
40189917013	RW-16	Water	06/20/19 09:38	06/21/19 10:20
40189917014	OP-14	Water	06/20/19 11:04	06/21/19 10:20
40189917015	RW-17	Water	06/20/19 12:04	06/21/19 10:20
40189917016	RW-18	Water	06/20/19 12:52	06/21/19 10:20
40189917017	OP-15	Water	06/20/19 13:46	06/21/19 10:20
40189917018	RW-19	Water	06/20/19 14:33	06/21/19 10:20
40189917019	OP-16	Water	06/20/19 15:47	06/21/19 10:20
40189917020	DUP 4	Water	06/20/19 00:00	06/21/19 10:20

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189917

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40189917001	RW-13	EPA 8260	HNW	64	PASI-G
40189917002	RW-12	EPA 8260	HNW	64	PASI-G
40189917003	RW-11	EPA 8260	HNW	64	PASI-G
40189917004	OP-10	EPA 8260	HNW	64	PASI-G
40189917005	RW-10	EPA 8260	HNW	64	PASI-G
40189917006	RW-28	EPA 8260	HNW	64	PASI-G
40189917007	OP-8	EPA 8260	HNW	64	PASI-G
40189917008	RW-7	EPA 8260	HNW	64	PASI-G
40189917009	RW-27	EPA 8260	HNW	64	PASI-G
40189917010	OP-7	EPA 8260	HNW	64	PASI-G
40189917011	DUP-5	EPA 8260	HNW	64	PASI-G
40189917012	TRIP-1	EPA 8260	HNW	64	PASI-G
40189917013	RW-16	EPA 8260	HNW	64	PASI-G
40189917014	OP-14	EPA 8260	HNW	64	PASI-G
40189917015	RW-17	EPA 8260	HNW	64	PASI-G
40189917016	RW-18	EPA 8260	HNW	64	PASI-G
40189917017	OP-15	EPA 8260	HNW	64	PASI-G
40189917018	RW-19	EPA 8260	HNW	64	PASI-G
40189917019	OP-16	EPA 8260	HNW	64	PASI-G
40189917020	DUP 4	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.: 40189917

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>40189917001</b>	<b>RW-13</b>					
EPA 8260	1,1,1-Trichloroethane	1.1J	ug/L	2.5	06/24/19 19:41	
EPA 8260	1,1-Dichloroethane	10.5	ug/L	2.5	06/24/19 19:41	
EPA 8260	1,1-Dichloroethene	1.1J	ug/L	2.5	06/24/19 19:41	
EPA 8260	Trichloroethene	71.0	ug/L	2.5	06/24/19 19:41	
EPA 8260	Vinyl chloride	24.6	ug/L	2.5	06/24/19 19:41	
EPA 8260	cis-1,2-Dichloroethene	351	ug/L	2.5	06/24/19 19:41	
<b>40189917002</b>	<b>RW-12</b>					
EPA 8260	1,1,1-Trichloroethane	5.8	ug/L	1.0	06/24/19 18:36	
EPA 8260	1,1-Dichloroethane	25.1	ug/L	1.0	06/24/19 18:36	
EPA 8260	Benzene	0.37J	ug/L	1.0	06/24/19 18:36	
EPA 8260	Chloroethane	2.0J	ug/L	5.0	06/24/19 18:36	
EPA 8260	Tetrachloroethene	0.53J	ug/L	1.1	06/24/19 18:36	
EPA 8260	Trichloroethene	4.4	ug/L	1.0	06/24/19 18:36	
EPA 8260	Vinyl chloride	7.3	ug/L	1.0	06/24/19 18:36	
EPA 8260	cis-1,2-Dichloroethene	21.4	ug/L	1.0	06/24/19 18:36	
<b>40189917003</b>	<b>RW-11</b>					
EPA 8260	1,1,1-Trichloroethane	1.5	ug/L	1.0	06/24/19 18:15	
EPA 8260	1,1-Dichloroethane	2.1	ug/L	1.0	06/24/19 18:15	
EPA 8260	Tetrachloroethene	0.81J	ug/L	1.1	06/24/19 18:15	
EPA 8260	Trichloroethene	4.1	ug/L	1.0	06/24/19 18:15	
EPA 8260	Vinyl chloride	8.4	ug/L	1.0	06/24/19 18:15	
EPA 8260	cis-1,2-Dichloroethene	33.8	ug/L	1.0	06/24/19 18:15	
<b>40189917004</b>	<b>OP-10</b>					
EPA 8260	1,1,1-Trichloroethane	0.79J	ug/L	1.0	06/25/19 11:08	
EPA 8260	1,1-Dichloroethane	4.5	ug/L	1.0	06/25/19 11:08	
EPA 8260	Tetrachloroethene	0.75J	ug/L	1.1	06/25/19 11:08	
EPA 8260	Trichloroethene	8.6	ug/L	1.0	06/25/19 11:08	
EPA 8260	Vinyl chloride	13.6	ug/L	1.0	06/25/19 11:08	
EPA 8260	cis-1,2-Dichloroethene	9.6	ug/L	1.0	06/25/19 11:08	
<b>40189917005</b>	<b>RW-10</b>					
EPA 8260	1,1-Dichloroethane	0.89J	ug/L	1.0	06/24/19 18:58	
EPA 8260	Naphthalene	1.2J	ug/L	5.0	06/24/19 18:58	
EPA 8260	Tetrachloroethene	0.59J	ug/L	1.1	06/24/19 18:58	
EPA 8260	Trichloroethene	4.0	ug/L	1.0	06/24/19 18:58	
EPA 8260	Vinyl chloride	2.9	ug/L	1.0	06/24/19 18:58	
EPA 8260	cis-1,2-Dichloroethene	12.2	ug/L	1.0	06/24/19 18:58	
<b>40189917006</b>	<b>RW-28</b>					
EPA 8260	1,1-Dichloroethane	1.0	ug/L	1.0	06/24/19 19:19	
EPA 8260	1,1-Dichloroethene	0.83J	ug/L	1.0	06/24/19 19:19	
EPA 8260	Tetrachloroethene	0.81J	ug/L	1.1	06/24/19 19:19	
EPA 8260	Trichloroethene	3.6	ug/L	1.0	06/24/19 19:19	
EPA 8260	Vinyl chloride	166	ug/L	1.0	06/24/19 19:19	
EPA 8260	cis-1,2-Dichloroethene	171	ug/L	1.0	06/24/19 19:19	
EPA 8260	trans-1,2-Dichloroethene	1.2J	ug/L	3.6	06/24/19 19:19	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189917

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>40189917007</b>	<b>OP-8</b>					
EPA 8260	1,1-Dichloroethane	1.1	ug/L	1.0	06/25/19 11:30	
EPA 8260	Tetrachloroethene	0.95J	ug/L	1.1	06/25/19 11:30	
EPA 8260	Trichloroethene	2.7	ug/L	1.0	06/25/19 11:30	
EPA 8260	Vinyl chloride	1.3	ug/L	1.0	06/25/19 11:30	
EPA 8260	cis-1,2-Dichloroethene	2.9	ug/L	1.0	06/25/19 11:30	
<b>40189917008</b>	<b>RW-7</b>					
EPA 8260	1,1-Dichloroethene	45.7	ug/L	10.0	06/24/19 20:45	
EPA 8260	Trichloroethene	928	ug/L	10.0	06/24/19 20:45	
EPA 8260	Vinyl chloride	567	ug/L	10.0	06/24/19 20:45	
EPA 8260	cis-1,2-Dichloroethene	10900	ug/L	200	06/25/19 09:21	
EPA 8260	trans-1,2-Dichloroethene	53.7	ug/L	36.4	06/24/19 20:45	
<b>40189917009</b>	<b>RW-27</b>					
EPA 8260	Trichloroethene	0.56J	ug/L	1.0	06/25/19 11:51	
EPA 8260	Vinyl chloride	7.0	ug/L	1.0	06/25/19 11:51	
EPA 8260	cis-1,2-Dichloroethene	53.7	ug/L	1.0	06/25/19 11:51	
<b>40189917010</b>	<b>OP-7</b>					
EPA 8260	1,1,1-Trichloroethane	3.1J	ug/L	10.0	06/24/19 21:28	
EPA 8260	1,1-Dichloroethane	2.9J	ug/L	10.0	06/24/19 21:28	
EPA 8260	1,1-Dichloroethene	5.9J	ug/L	10.0	06/24/19 21:28	
EPA 8260	Tetrachloroethene	3.8J	ug/L	10.9	06/24/19 21:28	
EPA 8260	Trichloroethene	646	ug/L	10.0	06/24/19 21:28	
EPA 8260	Vinyl chloride	4.5J	ug/L	10.0	06/24/19 21:28	
EPA 8260	cis-1,2-Dichloroethene	904	ug/L	10.0	06/24/19 21:28	
<b>40189917011</b>	<b>DUP-5</b>					
EPA 8260	Trichloroethene	0.52J	ug/L	1.0	06/25/19 12:13	
EPA 8260	Vinyl chloride	6.7	ug/L	1.0	06/25/19 12:13	
EPA 8260	cis-1,2-Dichloroethene	53.0	ug/L	1.0	06/25/19 12:13	
<b>40189917013</b>	<b>RW-16</b>					
EPA 8260	1,1-Dichloroethane	4.1J	ug/L	10.0	06/24/19 22:11	
EPA 8260	1,1-Dichloroethene	13.2	ug/L	10.0	06/24/19 22:11	
EPA 8260	Trichloroethene	9790	ug/L	200	06/25/19 09:42	
EPA 8260	Vinyl chloride	10.1	ug/L	10.0	06/24/19 22:11	
EPA 8260	cis-1,2-Dichloroethene	767	ug/L	10.0	06/24/19 22:11	
EPA 8260	trans-1,2-Dichloroethene	305	ug/L	36.4	06/24/19 22:11	
<b>40189917014</b>	<b>OP-14</b>					
EPA 8260	1,1,1-Trichloroethane	2.9J	ug/L	10.0	06/24/19 22:33	
EPA 8260	Tetrachloroethene	13.3	ug/L	10.9	06/24/19 22:33	
EPA 8260	Trichloroethene	473	ug/L	10.0	06/24/19 22:33	
EPA 8260	cis-1,2-Dichloroethene	16.4	ug/L	10.0	06/24/19 22:33	
<b>40189917015</b>	<b>RW-17</b>					
EPA 8260	1,1,1-Trichloroethane	54.5	ug/L	10.0	06/24/19 22:55	
EPA 8260	1,1-Dichloroethane	6.6J	ug/L	10.0	06/24/19 22:55	
EPA 8260	Tetrachloroethene	7.3J	ug/L	10.9	06/24/19 22:55	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189917

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>40189917015</b>	<b>RW-17</b>					
EPA 8260	Trichloroethene	606	ug/L	10.0	06/24/19 22:55	
EPA 8260	cis-1,2-Dichloroethene	39.3	ug/L	10.0	06/24/19 22:55	
<b>40189917016</b>	<b>RW-18</b>					
EPA 8260	1,1,1-Trichloroethane	74.4	ug/L	5.0	06/25/19 10:04	
EPA 8260	1,1-Dichloroethane	5.2	ug/L	5.0	06/25/19 10:04	
EPA 8260	1,1-Dichloroethene	3.1J	ug/L	5.0	06/25/19 10:04	
EPA 8260	Tetrachloroethene	2.7J	ug/L	5.4	06/25/19 10:04	
EPA 8260	Trichloroethene	288	ug/L	5.0	06/25/19 10:04	
EPA 8260	cis-1,2-Dichloroethene	45.0	ug/L	5.0	06/25/19 10:04	
EPA 8260	trans-1,2-Dichloroethene	5.7J	ug/L	18.2	06/25/19 10:04	
<b>40189917017</b>	<b>OP-15</b>					
EPA 8260	1,1,1-Trichloroethane	62.1	ug/L	2.5	06/25/19 10:25	
EPA 8260	1,1-Dichloroethane	6.6	ug/L	2.5	06/25/19 10:25	
EPA 8260	1,1-Dichloroethene	1.9J	ug/L	2.5	06/25/19 10:25	
EPA 8260	Tetrachloroethene	27.8	ug/L	2.7	06/25/19 10:25	
EPA 8260	Trichloroethene	282	ug/L	2.5	06/25/19 10:25	
EPA 8260	Vinyl chloride	0.48J	ug/L	2.5	06/25/19 10:25	
EPA 8260	cis-1,2-Dichloroethene	94.0	ug/L	2.5	06/25/19 10:25	
<b>40189917018</b>	<b>RW-19</b>					
EPA 8260	1,1,1-Trichloroethane	36.3	ug/L	10.0	06/24/19 23:59	
EPA 8260	1,1-Dichloroethane	11.5	ug/L	10.0	06/24/19 23:59	
EPA 8260	1,1-Dichloroethene	3.3J	ug/L	10.0	06/24/19 23:59	
EPA 8260	Chloroform	30.0J	ug/L	50.0	06/24/19 23:59	
EPA 8260	Tetrachloroethene	7.4J	ug/L	10.9	06/24/19 23:59	
EPA 8260	Trichloroethene	996	ug/L	10.0	06/24/19 23:59	
EPA 8260	Vinyl chloride	8.0J	ug/L	10.0	06/24/19 23:59	
EPA 8260	cis-1,2-Dichloroethene	280	ug/L	10.0	06/24/19 23:59	
EPA 8260	trans-1,2-Dichloroethene	19.8J	ug/L	36.4	06/24/19 23:59	
<b>40189917019</b>	<b>OP-16</b>					
EPA 8260	1,1,1-Trichloroethane	7.0	ug/L	2.0	06/25/19 10:47	
EPA 8260	1,1-Dichloroethane	26.2	ug/L	2.0	06/25/19 10:47	
EPA 8260	1,1-Dichloroethene	0.99J	ug/L	2.0	06/25/19 10:47	
EPA 8260	Isopropylbenzene (Cumene)	1.1J	ug/L	10.0	06/25/19 10:47	
EPA 8260	Trichloroethene	43.8	ug/L	2.0	06/25/19 10:47	
EPA 8260	Vinyl chloride	106	ug/L	2.0	06/25/19 10:47	
EPA 8260	cis-1,2-Dichloroethene	145	ug/L	2.0	06/25/19 10:47	
EPA 8260	o-Xylene	1.2J	ug/L	2.0	06/25/19 10:47	
EPA 8260	sec-Butylbenzene	1.9J	ug/L	10.0	06/25/19 10:47	
<b>40189917020</b>	<b>DUP 4</b>					
EPA 8260	1,1,1-Trichloroethane	35.1	ug/L	10.0	06/25/19 00:42	
EPA 8260	1,1-Dichloroethane	12.7	ug/L	10.0	06/25/19 00:42	
EPA 8260	1,1-Dichloroethene	3.6J	ug/L	10.0	06/25/19 00:42	
EPA 8260	Chloroform	29.2J	ug/L	50.0	06/25/19 00:42	
EPA 8260	Tetrachloroethene	7.9J	ug/L	10.9	06/25/19 00:42	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189917

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>40189917020</b>	<b>DUP 4</b>					
EPA 8260	Trichloroethene	960	ug/L	10.0	06/25/19 00:42	
EPA 8260	Vinyl chloride	7.5J	ug/L	10.0	06/25/19 00:42	
EPA 8260	cis-1,2-Dichloroethene	270	ug/L	10.0	06/25/19 00:42	
EPA 8260	trans-1,2-Dichloroethene	18.5J	ug/L	36.4	06/25/19 00:42	

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## ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189917

**Sample: RW-13**      **Lab ID: 40189917001**      Collected: 06/20/19 09:21      Received: 06/21/19 10:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.67	ug/L	2.5	0.67	2.5		06/24/19 19:41	630-20-6	
1,1,1-Trichloroethane	1.1J	ug/L	2.5	0.61	2.5		06/24/19 19:41	71-55-6	
1,1,2,2-Tetrachloroethane	<0.69	ug/L	2.5	0.69	2.5		06/24/19 19:41	79-34-5	
1,1,2-Trichloroethane	<1.4	ug/L	12.5	1.4	2.5		06/24/19 19:41	79-00-5	
1,1-Dichloroethane	10.5	ug/L	2.5	0.68	2.5		06/24/19 19:41	75-34-3	
1,1-Dichloroethene	1.1J	ug/L	2.5	0.61	2.5		06/24/19 19:41	75-35-4	
1,1-Dichloropropene	<1.4	ug/L	4.5	1.4	2.5		06/24/19 19:41	563-58-6	
1,2,3-Trichlorobenzene	<1.6	ug/L	12.5	1.6	2.5		06/24/19 19:41	87-61-6	
1,2,3-Trichloropropane	<1.5	ug/L	12.5	1.5	2.5		06/24/19 19:41	96-18-4	
1,2,4-Trichlorobenzene	<2.4	ug/L	12.5	2.4	2.5		06/24/19 19:41	120-82-1	
1,2,4-Trimethylbenzene	<2.1	ug/L	7.0	2.1	2.5		06/24/19 19:41	95-63-6	
1,2-Dibromo-3-chloropropane	<4.4	ug/L	14.7	4.4	2.5		06/24/19 19:41	96-12-8	
1,2-Dibromoethane (EDB)	<2.1	ug/L	6.9	2.1	2.5		06/24/19 19:41	106-93-4	
1,2-Dichlorobenzene	<1.8	ug/L	5.9	1.8	2.5		06/24/19 19:41	95-50-1	
1,2-Dichloroethane	<0.70	ug/L	2.5	0.70	2.5		06/24/19 19:41	107-06-2	
1,2-Dichloropropane	<0.71	ug/L	2.5	0.71	2.5		06/24/19 19:41	78-87-5	
1,3,5-Trimethylbenzene	<2.2	ug/L	7.3	2.2	2.5		06/24/19 19:41	108-67-8	
1,3-Dichlorobenzene	<1.6	ug/L	5.2	1.6	2.5		06/24/19 19:41	541-73-1	
1,3-Dichloropropane	<2.1	ug/L	6.9	2.1	2.5		06/24/19 19:41	142-28-9	
1,4-Dichlorobenzene	<2.4	ug/L	7.9	2.4	2.5		06/24/19 19:41	106-46-7	
2,2-Dichloropropane	<5.7	ug/L	18.9	5.7	2.5		06/24/19 19:41	594-20-7	
2-Chlorotoluene	<2.3	ug/L	12.5	2.3	2.5		06/24/19 19:41	95-49-8	
4-Chlorotoluene	<1.9	ug/L	6.3	1.9	2.5		06/24/19 19:41	106-43-4	
Benzene	<0.62	ug/L	2.5	0.62	2.5		06/24/19 19:41	71-43-2	
Bromobenzene	<0.60	ug/L	2.5	0.60	2.5		06/24/19 19:41	108-86-1	
Bromochloromethane	<0.91	ug/L	12.5	0.91	2.5		06/24/19 19:41	74-97-5	
Bromodichloromethane	<0.91	ug/L	3.0	0.91	2.5		06/24/19 19:41	75-27-4	
Bromoform	<9.9	ug/L	33.1	9.9	2.5		06/24/19 19:41	75-25-2	
Bromomethane	<2.4	ug/L	12.5	2.4	2.5		06/24/19 19:41	74-83-9	
Carbon tetrachloride	<0.41	ug/L	2.5	0.41	2.5		06/24/19 19:41	56-23-5	
Chlorobenzene	<1.8	ug/L	5.9	1.8	2.5		06/24/19 19:41	108-90-7	
Chloroethane	<3.4	ug/L	12.5	3.4	2.5		06/24/19 19:41	75-00-3	
Chloroform	<3.2	ug/L	12.5	3.2	2.5		06/24/19 19:41	67-66-3	
Chloromethane	<5.5	ug/L	18.2	5.5	2.5		06/24/19 19:41	74-87-3	
Dibromochloromethane	<6.5	ug/L	21.7	6.5	2.5		06/24/19 19:41	124-48-1	
Dibromomethane	<2.3	ug/L	7.8	2.3	2.5		06/24/19 19:41	74-95-3	
Dichlorodifluoromethane	<1.2	ug/L	12.5	1.2	2.5		06/24/19 19:41	75-71-8	
Diisopropyl ether	<4.7	ug/L	15.7	4.7	2.5		06/24/19 19:41	108-20-3	
Ethylbenzene	<0.55	ug/L	2.5	0.55	2.5		06/24/19 19:41	100-41-4	
Hexachloro-1,3-butadiene	<3.0	ug/L	12.5	3.0	2.5		06/24/19 19:41	87-68-3	
Isopropylbenzene (Cumene)	<0.98	ug/L	12.5	0.98	2.5		06/24/19 19:41	98-82-8	
Methyl-tert-butyl ether	<3.1	ug/L	10.4	3.1	2.5		06/24/19 19:41	1634-04-4	
Methylene Chloride	<1.5	ug/L	12.5	1.5	2.5		06/24/19 19:41	75-09-2	
Naphthalene	<2.9	ug/L	12.5	2.9	2.5		06/24/19 19:41	91-20-3	
Styrene	<1.2	ug/L	3.9	1.2	2.5		06/24/19 19:41	100-42-5	
Tetrachloroethene	<0.82	ug/L	2.7	0.82	2.5		06/24/19 19:41	127-18-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189917

**Sample: RW-13**      **Lab ID: 40189917001**      Collected: 06/20/19 09:21      Received: 06/21/19 10:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Toluene	<0.43	ug/L	12.5	0.43	2.5		06/24/19 19:41	108-88-3	
Trichloroethene	71.0	ug/L	2.5	0.64	2.5		06/24/19 19:41	79-01-6	
Trichlorofluoromethane	<0.54	ug/L	2.5	0.54	2.5		06/24/19 19:41	75-69-4	
Vinyl chloride	24.6	ug/L	2.5	0.44	2.5		06/24/19 19:41	75-01-4	
cis-1,2-Dichloroethene	351	ug/L	2.5	0.68	2.5		06/24/19 19:41	156-59-2	
cis-1,3-Dichloropropene	<9.1	ug/L	30.2	9.1	2.5		06/24/19 19:41	10061-01-5	
m&p-Xylene	<1.2	ug/L	5.0	1.2	2.5		06/24/19 19:41	179601-23-1	
n-Butylbenzene	<1.8	ug/L	5.9	1.8	2.5		06/24/19 19:41	104-51-8	
n-Propylbenzene	<2.0	ug/L	12.5	2.0	2.5		06/24/19 19:41	103-65-1	
o-Xylene	<0.65	ug/L	2.5	0.65	2.5		06/24/19 19:41	95-47-6	
p-Isopropyltoluene	<2.0	ug/L	6.7	2.0	2.5		06/24/19 19:41	99-87-6	
sec-Butylbenzene	<2.1	ug/L	12.5	2.1	2.5		06/24/19 19:41	135-98-8	
tert-Butylbenzene	<0.76	ug/L	2.5	0.76	2.5		06/24/19 19:41	98-06-6	
trans-1,2-Dichloroethene	<2.7	ug/L	9.1	2.7	2.5		06/24/19 19:41	156-60-5	
trans-1,3-Dichloropropene	<10.9	ug/L	36.4	10.9	2.5		06/24/19 19:41	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		2.5		06/24/19 19:41	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		2.5		06/24/19 19:41	1868-53-7	
Toluene-d8 (S)	101	%	70-130		2.5		06/24/19 19:41	2037-26-5	

**Sample: RW-12**      **Lab ID: 40189917002**      Collected: 06/20/19 10:03      Received: 06/21/19 10:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		06/24/19 18:36	630-20-6	
1,1,1-Trichloroethane	5.8	ug/L	1.0	0.24	1		06/24/19 18:36	71-55-6	
1,1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		06/24/19 18:36	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		06/24/19 18:36	79-00-5	
1,1-Dichloroethane	25.1	ug/L	1.0	0.27	1		06/24/19 18:36	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/24/19 18:36	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		06/24/19 18:36	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		06/24/19 18:36	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		06/24/19 18:36	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/24/19 18:36	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		06/24/19 18:36	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		06/24/19 18:36	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		06/24/19 18:36	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		06/24/19 18:36	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		06/24/19 18:36	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		06/24/19 18:36	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		06/24/19 18:36	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		06/24/19 18:36	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		06/24/19 18:36	142-28-9	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189917

Sample: RW-12 Lab ID: 40189917002 Collected: 06/20/19 10:03 Received: 06/21/19 10:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		06/24/19 18:36	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		06/24/19 18:36	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		06/24/19 18:36	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		06/24/19 18:36	106-43-4	
Benzene	0.37J	ug/L	1.0	0.25	1		06/24/19 18:36	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		06/24/19 18:36	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/24/19 18:36	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		06/24/19 18:36	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		06/24/19 18:36	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		06/24/19 18:36	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		06/24/19 18:36	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		06/24/19 18:36	108-90-7	
Chloroethane	2.0J	ug/L	5.0	1.3	1		06/24/19 18:36	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		06/24/19 18:36	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		06/24/19 18:36	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		06/24/19 18:36	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		06/24/19 18:36	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		06/24/19 18:36	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		06/24/19 18:36	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		06/24/19 18:36	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		06/24/19 18:36	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		06/24/19 18:36	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		06/24/19 18:36	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		06/24/19 18:36	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		06/24/19 18:36	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		06/24/19 18:36	100-42-5	
Tetrachloroethene	0.53J	ug/L	1.1	0.33	1		06/24/19 18:36	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		06/24/19 18:36	108-88-3	
Trichloroethene	4.4	ug/L	1.0	0.26	1		06/24/19 18:36	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		06/24/19 18:36	75-69-4	
Vinyl chloride	7.3	ug/L	1.0	0.17	1		06/24/19 18:36	75-01-4	
cis-1,2-Dichloroethene	21.4	ug/L	1.0	0.27	1		06/24/19 18:36	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		06/24/19 18:36	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		06/24/19 18:36	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		06/24/19 18:36	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		06/24/19 18:36	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		06/24/19 18:36	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		06/24/19 18:36	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		06/24/19 18:36	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		06/24/19 18:36	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		06/24/19 18:36	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		06/24/19 18:36	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		06/24/19 18:36	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		06/24/19 18:36	1868-53-7	
Toluene-d8 (S)	99	%	70-130		1		06/24/19 18:36	2037-26-5	

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## ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189917

**Sample:** RW-11      **Lab ID:** 40189917003      Collected: 06/20/19 10:37      Received: 06/21/19 10:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		06/24/19 18:15	630-20-6	
1,1,1-Trichloroethane	1.5	ug/L	1.0	0.24	1		06/24/19 18:15	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		06/24/19 18:15	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		06/24/19 18:15	79-00-5	
1,1-Dichloroethane	2.1	ug/L	1.0	0.27	1		06/24/19 18:15	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/24/19 18:15	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		06/24/19 18:15	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		06/24/19 18:15	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		06/24/19 18:15	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/24/19 18:15	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		06/24/19 18:15	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		06/24/19 18:15	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		06/24/19 18:15	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		06/24/19 18:15	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		06/24/19 18:15	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		06/24/19 18:15	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		06/24/19 18:15	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		06/24/19 18:15	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		06/24/19 18:15	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		06/24/19 18:15	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		06/24/19 18:15	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		06/24/19 18:15	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		06/24/19 18:15	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		06/24/19 18:15	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		06/24/19 18:15	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/24/19 18:15	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		06/24/19 18:15	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		06/24/19 18:15	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		06/24/19 18:15	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		06/24/19 18:15	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		06/24/19 18:15	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		06/24/19 18:15	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		06/24/19 18:15	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		06/24/19 18:15	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		06/24/19 18:15	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		06/24/19 18:15	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		06/24/19 18:15	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		06/24/19 18:15	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		06/24/19 18:15	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		06/24/19 18:15	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		06/24/19 18:15	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		06/24/19 18:15	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		06/24/19 18:15	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		06/24/19 18:15	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		06/24/19 18:15	100-42-5	
Tetrachloroethene	0.81J	ug/L	1.1	0.33	1		06/24/19 18:15	127-18-4	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189917

**Sample: RW-11**      **Lab ID: 40189917003**      Collected: 06/20/19 10:37      Received: 06/21/19 10:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Toluene	<0.17	ug/L	5.0	0.17	1		06/24/19 18:15	108-88-3	
Trichloroethene	4.1	ug/L	1.0	0.26	1		06/24/19 18:15	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		06/24/19 18:15	75-69-4	
Vinyl chloride	8.4	ug/L	1.0	0.17	1		06/24/19 18:15	75-01-4	
cis-1,2-Dichloroethene	33.8	ug/L	1.0	0.27	1		06/24/19 18:15	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		06/24/19 18:15	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		06/24/19 18:15	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		06/24/19 18:15	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		06/24/19 18:15	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		06/24/19 18:15	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		06/24/19 18:15	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		06/24/19 18:15	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		06/24/19 18:15	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		06/24/19 18:15	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		06/24/19 18:15	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		06/24/19 18:15	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		06/24/19 18:15	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		06/24/19 18:15	2037-26-5	

**Sample: OP-10**      **Lab ID: 40189917004**      Collected: 06/20/19 11:24      Received: 06/21/19 10:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		06/25/19 11:08	630-20-6	
1,1,1-Trichloroethane	0.79J	ug/L	1.0	0.24	1		06/25/19 11:08	71-55-6	
1,1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		06/25/19 11:08	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		06/25/19 11:08	79-00-5	
1,1-Dichloroethane	4.5	ug/L	1.0	0.27	1		06/25/19 11:08	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/25/19 11:08	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		06/25/19 11:08	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		06/25/19 11:08	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		06/25/19 11:08	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/25/19 11:08	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		06/25/19 11:08	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		06/25/19 11:08	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		06/25/19 11:08	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		06/25/19 11:08	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		06/25/19 11:08	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		06/25/19 11:08	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		06/25/19 11:08	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		06/25/19 11:08	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		06/25/19 11:08	142-28-9	

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## ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189917

**Sample: OP-10**      **Lab ID: 40189917004**      Collected: 06/20/19 11:24      Received: 06/21/19 10:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		06/25/19 11:08	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		06/25/19 11:08	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		06/25/19 11:08	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		06/25/19 11:08	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		06/25/19 11:08	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		06/25/19 11:08	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/25/19 11:08	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		06/25/19 11:08	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		06/25/19 11:08	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		06/25/19 11:08	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		06/25/19 11:08	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		06/25/19 11:08	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		06/25/19 11:08	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		06/25/19 11:08	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		06/25/19 11:08	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		06/25/19 11:08	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		06/25/19 11:08	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		06/25/19 11:08	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		06/25/19 11:08	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		06/25/19 11:08	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		06/25/19 11:08	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		06/25/19 11:08	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		06/25/19 11:08	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		06/25/19 11:08	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		06/25/19 11:08	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		06/25/19 11:08	100-42-5	
Tetrachloroethene	0.75J	ug/L	1.1	0.33	1		06/25/19 11:08	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		06/25/19 11:08	108-88-3	
Trichloroethene	8.6	ug/L	1.0	0.26	1		06/25/19 11:08	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		06/25/19 11:08	75-69-4	
Vinyl chloride	13.6	ug/L	1.0	0.17	1		06/25/19 11:08	75-01-4	
cis-1,2-Dichloroethene	9.6	ug/L	1.0	0.27	1		06/25/19 11:08	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		06/25/19 11:08	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		06/25/19 11:08	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		06/25/19 11:08	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		06/25/19 11:08	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		06/25/19 11:08	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		06/25/19 11:08	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		06/25/19 11:08	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		06/25/19 11:08	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		06/25/19 11:08	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		06/25/19 11:08	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		1		06/25/19 11:08	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		06/25/19 11:08	1868-53-7	
Toluene-d8 (S)	100	%	70-130		1		06/25/19 11:08	2037-26-5	

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## ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189917

**Sample: RW-10**      **Lab ID: 40189917005**      Collected: 06/20/19 11:55      Received: 06/21/19 10:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		06/24/19 18:58	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/24/19 18:58	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		06/24/19 18:58	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		06/24/19 18:58	79-00-5	
1,1-Dichloroethane	0.89J	ug/L	1.0	0.27	1		06/24/19 18:58	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/24/19 18:58	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		06/24/19 18:58	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		06/24/19 18:58	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		06/24/19 18:58	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/24/19 18:58	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		06/24/19 18:58	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		06/24/19 18:58	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		06/24/19 18:58	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		06/24/19 18:58	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		06/24/19 18:58	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		06/24/19 18:58	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		06/24/19 18:58	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		06/24/19 18:58	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		06/24/19 18:58	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		06/24/19 18:58	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		06/24/19 18:58	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		06/24/19 18:58	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		06/24/19 18:58	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		06/24/19 18:58	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		06/24/19 18:58	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/24/19 18:58	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		06/24/19 18:58	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		06/24/19 18:58	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		06/24/19 18:58	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		06/24/19 18:58	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		06/24/19 18:58	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		06/24/19 18:58	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		06/24/19 18:58	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		06/24/19 18:58	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		06/24/19 18:58	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		06/24/19 18:58	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		06/24/19 18:58	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		06/24/19 18:58	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		06/24/19 18:58	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		06/24/19 18:58	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		06/24/19 18:58	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		06/24/19 18:58	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		06/24/19 18:58	75-09-2	
Naphthalene	1.2J	ug/L	5.0	1.2	1		06/24/19 18:58	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		06/24/19 18:58	100-42-5	
Tetrachloroethene	0.59J	ug/L	1.1	0.33	1		06/24/19 18:58	127-18-4	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189917

**Sample: RW-10**      **Lab ID: 40189917005**      Collected: 06/20/19 11:55      Received: 06/21/19 10:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Toluene	<0.17	ug/L	5.0	0.17	1		06/24/19 18:58	108-88-3	
Trichloroethene	4.0	ug/L	1.0	0.26	1		06/24/19 18:58	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		06/24/19 18:58	75-69-4	
Vinyl chloride	2.9	ug/L	1.0	0.17	1		06/24/19 18:58	75-01-4	
cis-1,2-Dichloroethene	12.2	ug/L	1.0	0.27	1		06/24/19 18:58	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		06/24/19 18:58	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		06/24/19 18:58	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		06/24/19 18:58	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		06/24/19 18:58	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		06/24/19 18:58	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		06/24/19 18:58	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		06/24/19 18:58	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		06/24/19 18:58	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		06/24/19 18:58	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		06/24/19 18:58	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		06/24/19 18:58	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		06/24/19 18:58	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		06/24/19 18:58	2037-26-5	

**Sample: RW-28**      **Lab ID: 40189917006**      Collected: 06/20/19 12:23      Received: 06/21/19 10:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		06/24/19 19:19	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/24/19 19:19	71-55-6	
1,1,1,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		06/24/19 19:19	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		06/24/19 19:19	79-00-5	
1,1-Dichloroethane	1.0	ug/L	1.0	0.27	1		06/24/19 19:19	75-34-3	
1,1-Dichloroethene	0.83J	ug/L	1.0	0.24	1		06/24/19 19:19	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		06/24/19 19:19	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		06/24/19 19:19	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		06/24/19 19:19	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/24/19 19:19	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		06/24/19 19:19	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		06/24/19 19:19	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		06/24/19 19:19	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		06/24/19 19:19	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		06/24/19 19:19	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		06/24/19 19:19	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		06/24/19 19:19	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		06/24/19 19:19	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		06/24/19 19:19	142-28-9	

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## ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189917

**Sample: RW-28**      **Lab ID: 40189917006**      Collected: 06/20/19 12:23      Received: 06/21/19 10:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		06/24/19 19:19	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		06/24/19 19:19	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		06/24/19 19:19	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		06/24/19 19:19	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		06/24/19 19:19	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		06/24/19 19:19	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/24/19 19:19	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		06/24/19 19:19	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		06/24/19 19:19	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		06/24/19 19:19	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		06/24/19 19:19	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		06/24/19 19:19	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		06/24/19 19:19	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		06/24/19 19:19	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		06/24/19 19:19	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		06/24/19 19:19	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		06/24/19 19:19	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		06/24/19 19:19	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		06/24/19 19:19	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		06/24/19 19:19	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		06/24/19 19:19	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		06/24/19 19:19	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		06/24/19 19:19	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		06/24/19 19:19	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		06/24/19 19:19	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		06/24/19 19:19	100-42-5	
Tetrachloroethene	0.81J	ug/L	1.1	0.33	1		06/24/19 19:19	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		06/24/19 19:19	108-88-3	
Trichloroethene	3.6	ug/L	1.0	0.26	1		06/24/19 19:19	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		06/24/19 19:19	75-69-4	
Vinyl chloride	166	ug/L	1.0	0.17	1		06/24/19 19:19	75-01-4	
cis-1,2-Dichloroethene	171	ug/L	1.0	0.27	1		06/24/19 19:19	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		06/24/19 19:19	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		06/24/19 19:19	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		06/24/19 19:19	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		06/24/19 19:19	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		06/24/19 19:19	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		06/24/19 19:19	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		06/24/19 19:19	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		06/24/19 19:19	98-06-6	
trans-1,2-Dichloroethene	1.2J	ug/L	3.6	1.1	1		06/24/19 19:19	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		06/24/19 19:19	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		1		06/24/19 19:19	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		06/24/19 19:19	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		06/24/19 19:19	2037-26-5	

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## ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189917

**Sample: OP-8**      **Lab ID: 40189917007**      Collected: 06/20/19 13:16      Received: 06/21/19 10:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		06/25/19 11:30	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/25/19 11:30	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		06/25/19 11:30	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		06/25/19 11:30	79-00-5	
1,1-Dichloroethane	1.1	ug/L	1.0	0.27	1		06/25/19 11:30	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/25/19 11:30	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		06/25/19 11:30	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		06/25/19 11:30	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		06/25/19 11:30	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/25/19 11:30	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		06/25/19 11:30	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		06/25/19 11:30	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		06/25/19 11:30	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		06/25/19 11:30	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		06/25/19 11:30	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		06/25/19 11:30	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		06/25/19 11:30	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		06/25/19 11:30	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		06/25/19 11:30	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		06/25/19 11:30	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		06/25/19 11:30	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		06/25/19 11:30	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		06/25/19 11:30	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		06/25/19 11:30	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		06/25/19 11:30	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/25/19 11:30	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		06/25/19 11:30	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		06/25/19 11:30	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		06/25/19 11:30	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		06/25/19 11:30	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		06/25/19 11:30	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		06/25/19 11:30	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		06/25/19 11:30	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		06/25/19 11:30	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		06/25/19 11:30	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		06/25/19 11:30	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		06/25/19 11:30	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		06/25/19 11:30	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		06/25/19 11:30	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		06/25/19 11:30	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		06/25/19 11:30	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		06/25/19 11:30	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		06/25/19 11:30	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		06/25/19 11:30	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		06/25/19 11:30	100-42-5	
Tetrachloroethene	0.95J	ug/L	1.1	0.33	1		06/25/19 11:30	127-18-4	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189917

**Sample: OP-8**      **Lab ID: 40189917007**      Collected: 06/20/19 13:16      Received: 06/21/19 10:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Toluene	<0.17	ug/L	5.0	0.17	1		06/25/19 11:30	108-88-3	
Trichloroethene	2.7	ug/L	1.0	0.26	1		06/25/19 11:30	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		06/25/19 11:30	75-69-4	
Vinyl chloride	1.3	ug/L	1.0	0.17	1		06/25/19 11:30	75-01-4	
cis-1,2-Dichloroethene	2.9	ug/L	1.0	0.27	1		06/25/19 11:30	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		06/25/19 11:30	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		06/25/19 11:30	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		06/25/19 11:30	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		06/25/19 11:30	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		06/25/19 11:30	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		06/25/19 11:30	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		06/25/19 11:30	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		06/25/19 11:30	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		06/25/19 11:30	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		06/25/19 11:30	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	95	%	70-130		1		06/25/19 11:30	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		06/25/19 11:30	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		06/25/19 11:30	2037-26-5	

**Sample: RW-7**      **Lab ID: 40189917008**      Collected: 06/20/19 13:52      Received: 06/21/19 10:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<2.7	ug/L	10.0	2.7	10		06/24/19 20:45	630-20-6	
1,1,1-Trichloroethane	<2.4	ug/L	10.0	2.4	10		06/24/19 20:45	71-55-6	
1,1,1,2,2-Tetrachloroethane	<2.8	ug/L	10.0	2.8	10		06/24/19 20:45	79-34-5	
1,1,2-Trichloroethane	<5.5	ug/L	50.0	5.5	10		06/24/19 20:45	79-00-5	
1,1-Dichloroethane	<2.7	ug/L	10.0	2.7	10		06/24/19 20:45	75-34-3	
1,1-Dichloroethene	45.7	ug/L	10.0	2.4	10		06/24/19 20:45	75-35-4	
1,1-Dichloropropene	<5.4	ug/L	18.0	5.4	10		06/24/19 20:45	563-58-6	
1,2,3-Trichlorobenzene	<6.3	ug/L	50.0	6.3	10		06/24/19 20:45	87-61-6	
1,2,3-Trichloropropane	<5.9	ug/L	50.0	5.9	10		06/24/19 20:45	96-18-4	
1,2,4-Trichlorobenzene	<9.5	ug/L	50.0	9.5	10		06/24/19 20:45	120-82-1	
1,2,4-Trimethylbenzene	<8.4	ug/L	28.0	8.4	10		06/24/19 20:45	95-63-6	
1,2-Dibromo-3-chloropropane	<17.6	ug/L	58.8	17.6	10		06/24/19 20:45	96-12-8	
1,2-Dibromoethane (EDB)	<8.3	ug/L	27.6	8.3	10		06/24/19 20:45	106-93-4	
1,2-Dichlorobenzene	<7.1	ug/L	23.5	7.1	10		06/24/19 20:45	95-50-1	
1,2-Dichloroethane	<2.8	ug/L	10.0	2.8	10		06/24/19 20:45	107-06-2	
1,2-Dichloropropane	<2.8	ug/L	10.0	2.8	10		06/24/19 20:45	78-87-5	
1,3,5-Trimethylbenzene	<8.7	ug/L	29.1	8.7	10		06/24/19 20:45	108-67-8	
1,3-Dichlorobenzene	<6.3	ug/L	20.9	6.3	10		06/24/19 20:45	541-73-1	
1,3-Dichloropropane	<8.3	ug/L	27.5	8.3	10		06/24/19 20:45	142-28-9	

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## ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189917

**Sample: RW-7**      **Lab ID: 40189917008**      Collected: 06/20/19 13:52      Received: 06/21/19 10:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,4-Dichlorobenzene	<9.4	ug/L	31.5	9.4	10		06/24/19 20:45	106-46-7	
2,2-Dichloropropane	<22.7	ug/L	75.5	22.7	10		06/24/19 20:45	594-20-7	
2-Chlorotoluene	<9.3	ug/L	50.0	9.3	10		06/24/19 20:45	95-49-8	
4-Chlorotoluene	<7.6	ug/L	25.2	7.6	10		06/24/19 20:45	106-43-4	
Benzene	<2.5	ug/L	10.0	2.5	10		06/24/19 20:45	71-43-2	
Bromobenzene	<2.4	ug/L	10.0	2.4	10		06/24/19 20:45	108-86-1	
Bromochloromethane	<3.6	ug/L	50.0	3.6	10		06/24/19 20:45	74-97-5	
Bromodichloromethane	<3.6	ug/L	12.1	3.6	10		06/24/19 20:45	75-27-4	
Bromoform	<39.7	ug/L	132	39.7	10		06/24/19 20:45	75-25-2	
Bromomethane	<9.7	ug/L	50.0	9.7	10		06/24/19 20:45	74-83-9	
Carbon tetrachloride	<1.7	ug/L	10.0	1.7	10		06/24/19 20:45	56-23-5	
Chlorobenzene	<7.1	ug/L	23.7	7.1	10		06/24/19 20:45	108-90-7	
Chloroethane	<13.4	ug/L	50.0	13.4	10		06/24/19 20:45	75-00-3	
Chloroform	<12.7	ug/L	50.0	12.7	10		06/24/19 20:45	67-66-3	
Chloromethane	<21.9	ug/L	73.0	21.9	10		06/24/19 20:45	74-87-3	
Dibromochloromethane	<26.0	ug/L	86.7	26.0	10		06/24/19 20:45	124-48-1	
Dibromomethane	<9.4	ug/L	31.2	9.4	10		06/24/19 20:45	74-95-3	
Dichlorodifluoromethane	<5.0	ug/L	50.0	5.0	10		06/24/19 20:45	75-71-8	
Diisopropyl ether	<18.9	ug/L	62.9	18.9	10		06/24/19 20:45	108-20-3	
Ethylbenzene	<2.2	ug/L	10.0	2.2	10		06/24/19 20:45	100-41-4	
Hexachloro-1,3-butadiene	<11.8	ug/L	50.0	11.8	10		06/24/19 20:45	87-68-3	
Isopropylbenzene (Cumene)	<3.9	ug/L	50.0	3.9	10		06/24/19 20:45	98-82-8	
Methyl-tert-butyl ether	<12.5	ug/L	41.5	12.5	10		06/24/19 20:45	1634-04-4	
Methylene Chloride	<5.8	ug/L	50.0	5.8	10		06/24/19 20:45	75-09-2	
Naphthalene	<11.8	ug/L	50.0	11.8	10		06/24/19 20:45	91-20-3	
Styrene	<4.7	ug/L	15.5	4.7	10		06/24/19 20:45	100-42-5	
Tetrachloroethene	<3.3	ug/L	10.9	3.3	10		06/24/19 20:45	127-18-4	
Toluene	<1.7	ug/L	50.0	1.7	10		06/24/19 20:45	108-88-3	
Trichloroethene	928	ug/L	10.0	2.6	10		06/24/19 20:45	79-01-6	
Trichlorofluoromethane	<2.1	ug/L	10.0	2.1	10		06/24/19 20:45	75-69-4	
Vinyl chloride	567	ug/L	10.0	1.7	10		06/24/19 20:45	75-01-4	
cis-1,2-Dichloroethene	10900	ug/L	200	54.2	200		06/25/19 09:21	156-59-2	
cis-1,3-Dichloropropene	<36.3	ug/L	121	36.3	10		06/24/19 20:45	10061-01-5	
m&p-Xylene	<4.7	ug/L	20.0	4.7	10		06/24/19 20:45	179601-23-1	
n-Butylbenzene	<7.1	ug/L	23.6	7.1	10		06/24/19 20:45	104-51-8	
n-Propylbenzene	<8.1	ug/L	50.0	8.1	10		06/24/19 20:45	103-65-1	
o-Xylene	<2.6	ug/L	10.0	2.6	10		06/24/19 20:45	95-47-6	
p-Isopropyltoluene	<8.0	ug/L	26.7	8.0	10		06/24/19 20:45	99-87-6	
sec-Butylbenzene	<8.5	ug/L	50.0	8.5	10		06/24/19 20:45	135-98-8	
tert-Butylbenzene	<3.0	ug/L	10.1	3.0	10		06/24/19 20:45	98-06-6	
trans-1,2-Dichloroethene	53.7	ug/L	36.4	10.9	10		06/24/19 20:45	156-60-5	
trans-1,3-Dichloropropene	<43.7	ug/L	146	43.7	10		06/24/19 20:45	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	100	%	70-130		10		06/24/19 20:45	460-00-4	HS
Dibromofluoromethane (S)	102	%	70-130		10		06/24/19 20:45	1868-53-7	
Toluene-d8 (S)	102	%	70-130		10		06/24/19 20:45	2037-26-5	

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## ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189917

**Sample: RW-27**      **Lab ID: 40189917009**      Collected: 06/20/19 14:24      Received: 06/21/19 10:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		06/25/19 11:51	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/25/19 11:51	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		06/25/19 11:51	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		06/25/19 11:51	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		06/25/19 11:51	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/25/19 11:51	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		06/25/19 11:51	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		06/25/19 11:51	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		06/25/19 11:51	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/25/19 11:51	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		06/25/19 11:51	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		06/25/19 11:51	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		06/25/19 11:51	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		06/25/19 11:51	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		06/25/19 11:51	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		06/25/19 11:51	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		06/25/19 11:51	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		06/25/19 11:51	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		06/25/19 11:51	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		06/25/19 11:51	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		06/25/19 11:51	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		06/25/19 11:51	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		06/25/19 11:51	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		06/25/19 11:51	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		06/25/19 11:51	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/25/19 11:51	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		06/25/19 11:51	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		06/25/19 11:51	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		06/25/19 11:51	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		06/25/19 11:51	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		06/25/19 11:51	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		06/25/19 11:51	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		06/25/19 11:51	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		06/25/19 11:51	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		06/25/19 11:51	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		06/25/19 11:51	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		06/25/19 11:51	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		06/25/19 11:51	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		06/25/19 11:51	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		06/25/19 11:51	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		06/25/19 11:51	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		06/25/19 11:51	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		06/25/19 11:51	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		06/25/19 11:51	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		06/25/19 11:51	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		06/25/19 11:51	127-18-4	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189917

**Sample: RW-27**      **Lab ID: 40189917009**      Collected: 06/20/19 14:24      Received: 06/21/19 10:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Toluene	<0.17	ug/L	5.0	0.17	1		06/25/19 11:51	108-88-3	
Trichloroethene	0.56J	ug/L	1.0	0.26	1		06/25/19 11:51	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		06/25/19 11:51	75-69-4	
Vinyl chloride	7.0	ug/L	1.0	0.17	1		06/25/19 11:51	75-01-4	
cis-1,2-Dichloroethene	53.7	ug/L	1.0	0.27	1		06/25/19 11:51	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		06/25/19 11:51	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		06/25/19 11:51	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		06/25/19 11:51	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		06/25/19 11:51	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		06/25/19 11:51	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		06/25/19 11:51	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		06/25/19 11:51	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		06/25/19 11:51	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		06/25/19 11:51	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		06/25/19 11:51	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	95	%	70-130		1		06/25/19 11:51	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		1		06/25/19 11:51	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		06/25/19 11:51	2037-26-5	

**Sample: OP-7**      **Lab ID: 40189917010**      Collected: 06/20/19 15:01      Received: 06/21/19 10:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<2.7	ug/L	10.0	2.7	10		06/24/19 21:28	630-20-6	
1,1,1-Trichloroethane	3.1J	ug/L	10.0	2.4	10		06/24/19 21:28	71-55-6	
1,1,1,2,2-Tetrachloroethane	<2.8	ug/L	10.0	2.8	10		06/24/19 21:28	79-34-5	
1,1,2-Trichloroethane	<5.5	ug/L	50.0	5.5	10		06/24/19 21:28	79-00-5	
1,1-Dichloroethane	2.9J	ug/L	10.0	2.7	10		06/24/19 21:28	75-34-3	
1,1-Dichloroethene	5.9J	ug/L	10.0	2.4	10		06/24/19 21:28	75-35-4	
1,1-Dichloropropene	<5.4	ug/L	18.0	5.4	10		06/24/19 21:28	563-58-6	
1,2,3-Trichlorobenzene	<6.3	ug/L	50.0	6.3	10		06/24/19 21:28	87-61-6	
1,2,3-Trichloropropane	<5.9	ug/L	50.0	5.9	10		06/24/19 21:28	96-18-4	
1,2,4-Trichlorobenzene	<9.5	ug/L	50.0	9.5	10		06/24/19 21:28	120-82-1	
1,2,4-Trimethylbenzene	<8.4	ug/L	28.0	8.4	10		06/24/19 21:28	95-63-6	
1,2-Dibromo-3-chloropropane	<17.6	ug/L	58.8	17.6	10		06/24/19 21:28	96-12-8	
1,2-Dibromoethane (EDB)	<8.3	ug/L	27.6	8.3	10		06/24/19 21:28	106-93-4	
1,2-Dichlorobenzene	<7.1	ug/L	23.5	7.1	10		06/24/19 21:28	95-50-1	
1,2-Dichloroethane	<2.8	ug/L	10.0	2.8	10		06/24/19 21:28	107-06-2	
1,2-Dichloropropane	<2.8	ug/L	10.0	2.8	10		06/24/19 21:28	78-87-5	
1,3,5-Trimethylbenzene	<8.7	ug/L	29.1	8.7	10		06/24/19 21:28	108-67-8	
1,3-Dichlorobenzene	<6.3	ug/L	20.9	6.3	10		06/24/19 21:28	541-73-1	
1,3-Dichloropropane	<8.3	ug/L	27.5	8.3	10		06/24/19 21:28	142-28-9	

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## ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189917

**Sample: OP-7**      **Lab ID: 40189917010**      Collected: 06/20/19 15:01      Received: 06/21/19 10:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,4-Dichlorobenzene	<9.4	ug/L	31.5	9.4	10		06/24/19 21:28	106-46-7	
2,2-Dichloropropane	<22.7	ug/L	75.5	22.7	10		06/24/19 21:28	594-20-7	
2-Chlorotoluene	<9.3	ug/L	50.0	9.3	10		06/24/19 21:28	95-49-8	
4-Chlorotoluene	<7.6	ug/L	25.2	7.6	10		06/24/19 21:28	106-43-4	
Benzene	<2.5	ug/L	10.0	2.5	10		06/24/19 21:28	71-43-2	
Bromobenzene	<2.4	ug/L	10.0	2.4	10		06/24/19 21:28	108-86-1	
Bromochloromethane	<3.6	ug/L	50.0	3.6	10		06/24/19 21:28	74-97-5	
Bromodichloromethane	<3.6	ug/L	12.1	3.6	10		06/24/19 21:28	75-27-4	
Bromoform	<39.7	ug/L	132	39.7	10		06/24/19 21:28	75-25-2	
Bromomethane	<9.7	ug/L	50.0	9.7	10		06/24/19 21:28	74-83-9	
Carbon tetrachloride	<1.7	ug/L	10.0	1.7	10		06/24/19 21:28	56-23-5	
Chlorobenzene	<7.1	ug/L	23.7	7.1	10		06/24/19 21:28	108-90-7	
Chloroethane	<13.4	ug/L	50.0	13.4	10		06/24/19 21:28	75-00-3	
Chloroform	<12.7	ug/L	50.0	12.7	10		06/24/19 21:28	67-66-3	
Chloromethane	<21.9	ug/L	73.0	21.9	10		06/24/19 21:28	74-87-3	
Dibromochloromethane	<26.0	ug/L	86.7	26.0	10		06/24/19 21:28	124-48-1	
Dibromomethane	<9.4	ug/L	31.2	9.4	10		06/24/19 21:28	74-95-3	
Dichlorodifluoromethane	<5.0	ug/L	50.0	5.0	10		06/24/19 21:28	75-71-8	
Diisopropyl ether	<18.9	ug/L	62.9	18.9	10		06/24/19 21:28	108-20-3	
Ethylbenzene	<2.2	ug/L	10.0	2.2	10		06/24/19 21:28	100-41-4	
Hexachloro-1,3-butadiene	<11.8	ug/L	50.0	11.8	10		06/24/19 21:28	87-68-3	
Isopropylbenzene (Cumene)	<3.9	ug/L	50.0	3.9	10		06/24/19 21:28	98-82-8	
Methyl-tert-butyl ether	<12.5	ug/L	41.5	12.5	10		06/24/19 21:28	1634-04-4	
Methylene Chloride	<5.8	ug/L	50.0	5.8	10		06/24/19 21:28	75-09-2	
Naphthalene	<11.8	ug/L	50.0	11.8	10		06/24/19 21:28	91-20-3	
Styrene	<4.7	ug/L	15.5	4.7	10		06/24/19 21:28	100-42-5	
Tetrachloroethene	3.8J	ug/L	10.9	3.3	10		06/24/19 21:28	127-18-4	
Toluene	<1.7	ug/L	50.0	1.7	10		06/24/19 21:28	108-88-3	
Trichloroethene	646	ug/L	10.0	2.6	10		06/24/19 21:28	79-01-6	
Trichlorofluoromethane	<2.1	ug/L	10.0	2.1	10		06/24/19 21:28	75-69-4	
Vinyl chloride	4.5J	ug/L	10.0	1.7	10		06/24/19 21:28	75-01-4	
cis-1,2-Dichloroethene	904	ug/L	10.0	2.7	10		06/24/19 21:28	156-59-2	
cis-1,3-Dichloropropene	<36.3	ug/L	121	36.3	10		06/24/19 21:28	10061-01-5	
m&p-Xylene	<4.7	ug/L	20.0	4.7	10		06/24/19 21:28	179601-23-1	
n-Butylbenzene	<7.1	ug/L	23.6	7.1	10		06/24/19 21:28	104-51-8	
n-Propylbenzene	<8.1	ug/L	50.0	8.1	10		06/24/19 21:28	103-65-1	
o-Xylene	<2.6	ug/L	10.0	2.6	10		06/24/19 21:28	95-47-6	
p-Isopropyltoluene	<8.0	ug/L	26.7	8.0	10		06/24/19 21:28	99-87-6	
sec-Butylbenzene	<8.5	ug/L	50.0	8.5	10		06/24/19 21:28	135-98-8	
tert-Butylbenzene	<3.0	ug/L	10.1	3.0	10		06/24/19 21:28	98-06-6	
trans-1,2-Dichloroethene	<10.9	ug/L	36.4	10.9	10		06/24/19 21:28	156-60-5	
trans-1,3-Dichloropropene	<43.7	ug/L	146	43.7	10		06/24/19 21:28	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		10		06/24/19 21:28	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		10		06/24/19 21:28	1868-53-7	
Toluene-d8 (S)	102	%	70-130		10		06/24/19 21:28	2037-26-5	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189917

**Sample: DUP-5**      **Lab ID: 40189917011**      Collected: 06/20/19 00:00      Received: 06/21/19 10:20      Matrix: Water

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

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189917

**Sample: DUP-5**      **Lab ID: 40189917011**      Collected: 06/20/19 00:00      Received: 06/21/19 10:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Toluene	<0.17	ug/L	5.0	0.17	1		06/25/19 12:13	108-88-3	
Trichloroethene	0.52J	ug/L	1.0	0.26	1		06/25/19 12:13	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		06/25/19 12:13	75-69-4	
Vinyl chloride	6.7	ug/L	1.0	0.17	1		06/25/19 12:13	75-01-4	
cis-1,2-Dichloroethene	53.0	ug/L	1.0	0.27	1		06/25/19 12:13	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		06/25/19 12:13	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		06/25/19 12:13	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		06/25/19 12:13	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		06/25/19 12:13	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		06/25/19 12:13	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		06/25/19 12:13	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		06/25/19 12:13	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		06/25/19 12:13	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		06/25/19 12:13	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		06/25/19 12:13	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96	%	70-130		1		06/25/19 12:13	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		06/25/19 12:13	1868-53-7	
Toluene-d8 (S)	102	%	70-130		1		06/25/19 12:13	2037-26-5	

**Sample: TRIP-1**      **Lab ID: 40189917012**      Collected: 06/20/19 00:00      Received: 06/21/19 10:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		06/24/19 17:53	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/24/19 17:53	71-55-6	
1,1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		06/24/19 17:53	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		06/24/19 17:53	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		06/24/19 17:53	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/24/19 17:53	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		06/24/19 17:53	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		06/24/19 17:53	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		06/24/19 17:53	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/24/19 17:53	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		06/24/19 17:53	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		06/24/19 17:53	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		06/24/19 17:53	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		06/24/19 17:53	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		06/24/19 17:53	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		06/24/19 17:53	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		06/24/19 17:53	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		06/24/19 17:53	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		06/24/19 17:53	142-28-9	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189917

Sample: TRIP-1 Lab ID: 40189917012 Collected: 06/20/19 00:00 Received: 06/21/19 10:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		06/24/19 17:53	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		06/24/19 17:53	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		06/24/19 17:53	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		06/24/19 17:53	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		06/24/19 17:53	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		06/24/19 17:53	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/24/19 17:53	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		06/24/19 17:53	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		06/24/19 17:53	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		06/24/19 17:53	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		06/24/19 17:53	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		06/24/19 17:53	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		06/24/19 17:53	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		06/24/19 17:53	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		06/24/19 17:53	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		06/24/19 17:53	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		06/24/19 17:53	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		06/24/19 17:53	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		06/24/19 17:53	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		06/24/19 17:53	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		06/24/19 17:53	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		06/24/19 17:53	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		06/24/19 17:53	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		06/24/19 17:53	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		06/24/19 17:53	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		06/24/19 17:53	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		06/24/19 17:53	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		06/24/19 17:53	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		06/24/19 17:53	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		06/24/19 17:53	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		06/24/19 17:53	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		06/24/19 17:53	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		06/24/19 17:53	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		06/24/19 17:53	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		06/24/19 17:53	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		06/24/19 17:53	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		06/24/19 17:53	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		06/24/19 17:53	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		06/24/19 17:53	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		06/24/19 17:53	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		06/24/19 17:53	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		06/24/19 17:53	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		1		06/24/19 17:53	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		1		06/24/19 17:53	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		06/24/19 17:53	2037-26-5	

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## ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189917

**Sample: RW-16**      **Lab ID: 40189917013**      Collected: 06/20/19 09:38      Received: 06/21/19 10:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<2.7	ug/L	10.0	2.7	10		06/24/19 22:11	630-20-6	
1,1,1-Trichloroethane	<2.4	ug/L	10.0	2.4	10		06/24/19 22:11	71-55-6	
1,1,2,2-Tetrachloroethane	<2.8	ug/L	10.0	2.8	10		06/24/19 22:11	79-34-5	
1,1,2-Trichloroethane	<5.5	ug/L	50.0	5.5	10		06/24/19 22:11	79-00-5	
1,1-Dichloroethane	4.1J	ug/L	10.0	2.7	10		06/24/19 22:11	75-34-3	
1,1-Dichloroethene	13.2	ug/L	10.0	2.4	10		06/24/19 22:11	75-35-4	
1,1-Dichloropropene	<5.4	ug/L	18.0	5.4	10		06/24/19 22:11	563-58-6	
1,2,3-Trichlorobenzene	<6.3	ug/L	50.0	6.3	10		06/24/19 22:11	87-61-6	
1,2,3-Trichloropropane	<5.9	ug/L	50.0	5.9	10		06/24/19 22:11	96-18-4	
1,2,4-Trichlorobenzene	<9.5	ug/L	50.0	9.5	10		06/24/19 22:11	120-82-1	
1,2,4-Trimethylbenzene	<8.4	ug/L	28.0	8.4	10		06/24/19 22:11	95-63-6	
1,2-Dibromo-3-chloropropane	<17.6	ug/L	58.8	17.6	10		06/24/19 22:11	96-12-8	
1,2-Dibromoethane (EDB)	<8.3	ug/L	27.6	8.3	10		06/24/19 22:11	106-93-4	
1,2-Dichlorobenzene	<7.1	ug/L	23.5	7.1	10		06/24/19 22:11	95-50-1	
1,2-Dichloroethane	<2.8	ug/L	10.0	2.8	10		06/24/19 22:11	107-06-2	
1,2-Dichloropropane	<2.8	ug/L	10.0	2.8	10		06/24/19 22:11	78-87-5	
1,3,5-Trimethylbenzene	<8.7	ug/L	29.1	8.7	10		06/24/19 22:11	108-67-8	
1,3-Dichlorobenzene	<6.3	ug/L	20.9	6.3	10		06/24/19 22:11	541-73-1	
1,3-Dichloropropane	<8.3	ug/L	27.5	8.3	10		06/24/19 22:11	142-28-9	
1,4-Dichlorobenzene	<9.4	ug/L	31.5	9.4	10		06/24/19 22:11	106-46-7	
2,2-Dichloropropane	<22.7	ug/L	75.5	22.7	10		06/24/19 22:11	594-20-7	
2-Chlorotoluene	<9.3	ug/L	50.0	9.3	10		06/24/19 22:11	95-49-8	
4-Chlorotoluene	<7.6	ug/L	25.2	7.6	10		06/24/19 22:11	106-43-4	
Benzene	<2.5	ug/L	10.0	2.5	10		06/24/19 22:11	71-43-2	
Bromobenzene	<2.4	ug/L	10.0	2.4	10		06/24/19 22:11	108-86-1	
Bromochloromethane	<3.6	ug/L	50.0	3.6	10		06/24/19 22:11	74-97-5	
Bromodichloromethane	<3.6	ug/L	12.1	3.6	10		06/24/19 22:11	75-27-4	
Bromoform	<39.7	ug/L	132	39.7	10		06/24/19 22:11	75-25-2	
Bromomethane	<9.7	ug/L	50.0	9.7	10		06/24/19 22:11	74-83-9	
Carbon tetrachloride	<1.7	ug/L	10.0	1.7	10		06/24/19 22:11	56-23-5	
Chlorobenzene	<7.1	ug/L	23.7	7.1	10		06/24/19 22:11	108-90-7	
Chloroethane	<13.4	ug/L	50.0	13.4	10		06/24/19 22:11	75-00-3	
Chloroform	<12.7	ug/L	50.0	12.7	10		06/24/19 22:11	67-66-3	
Chloromethane	<21.9	ug/L	73.0	21.9	10		06/24/19 22:11	74-87-3	
Dibromochloromethane	<26.0	ug/L	86.7	26.0	10		06/24/19 22:11	124-48-1	
Dibromomethane	<9.4	ug/L	31.2	9.4	10		06/24/19 22:11	74-95-3	
Dichlorodifluoromethane	<5.0	ug/L	50.0	5.0	10		06/24/19 22:11	75-71-8	
Diisopropyl ether	<18.9	ug/L	62.9	18.9	10		06/24/19 22:11	108-20-3	
Ethylbenzene	<2.2	ug/L	10.0	2.2	10		06/24/19 22:11	100-41-4	
Hexachloro-1,3-butadiene	<11.8	ug/L	50.0	11.8	10		06/24/19 22:11	87-68-3	
Isopropylbenzene (Cumene)	<3.9	ug/L	50.0	3.9	10		06/24/19 22:11	98-82-8	
Methyl-tert-butyl ether	<12.5	ug/L	41.5	12.5	10		06/24/19 22:11	1634-04-4	
Methylene Chloride	<5.8	ug/L	50.0	5.8	10		06/24/19 22:11	75-09-2	
Naphthalene	<11.8	ug/L	50.0	11.8	10		06/24/19 22:11	91-20-3	
Styrene	<4.7	ug/L	15.5	4.7	10		06/24/19 22:11	100-42-5	
Tetrachloroethene	<3.3	ug/L	10.9	3.3	10		06/24/19 22:11	127-18-4	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189917

**Sample: RW-16**      **Lab ID: 40189917013**      Collected: 06/20/19 09:38      Received: 06/21/19 10:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Toluene	<1.7	ug/L	50.0	1.7	10		06/24/19 22:11	108-88-3	
Trichloroethene	9790	ug/L	200	51.0	200		06/25/19 09:42	79-01-6	
Trichlorofluoromethane	<2.1	ug/L	10.0	2.1	10		06/24/19 22:11	75-69-4	
Vinyl chloride	10.1	ug/L	10.0	1.7	10		06/24/19 22:11	75-01-4	
cis-1,2-Dichloroethene	767	ug/L	10.0	2.7	10		06/24/19 22:11	156-59-2	
cis-1,3-Dichloropropene	<36.3	ug/L	121	36.3	10		06/24/19 22:11	10061-01-5	
m&p-Xylene	<4.7	ug/L	20.0	4.7	10		06/24/19 22:11	179601-23-1	
n-Butylbenzene	<7.1	ug/L	23.6	7.1	10		06/24/19 22:11	104-51-8	
n-Propylbenzene	<8.1	ug/L	50.0	8.1	10		06/24/19 22:11	103-65-1	
o-Xylene	<2.6	ug/L	10.0	2.6	10		06/24/19 22:11	95-47-6	
p-Isopropyltoluene	<8.0	ug/L	26.7	8.0	10		06/24/19 22:11	99-87-6	
sec-Butylbenzene	<8.5	ug/L	50.0	8.5	10		06/24/19 22:11	135-98-8	
tert-Butylbenzene	<3.0	ug/L	10.1	3.0	10		06/24/19 22:11	98-06-6	
trans-1,2-Dichloroethene	305	ug/L	36.4	10.9	10		06/24/19 22:11	156-60-5	
trans-1,3-Dichloropropene	<43.7	ug/L	146	43.7	10		06/24/19 22:11	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%	70-130		10		06/24/19 22:11	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		10		06/24/19 22:11	1868-53-7	
Toluene-d8 (S)	102	%	70-130		10		06/24/19 22:11	2037-26-5	

**Sample: OP-14**      **Lab ID: 40189917014**      Collected: 06/20/19 11:04      Received: 06/21/19 10:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<2.7	ug/L	10.0	2.7	10		06/24/19 22:33	630-20-6	
1,1,1-Trichloroethane	2.9J	ug/L	10.0	2.4	10		06/24/19 22:33	71-55-6	
1,1,1,2,2-Tetrachloroethane	<2.8	ug/L	10.0	2.8	10		06/24/19 22:33	79-34-5	
1,1,2-Trichloroethane	<5.5	ug/L	50.0	5.5	10		06/24/19 22:33	79-00-5	
1,1-Dichloroethane	<2.7	ug/L	10.0	2.7	10		06/24/19 22:33	75-34-3	
1,1-Dichloroethene	<2.4	ug/L	10.0	2.4	10		06/24/19 22:33	75-35-4	
1,1-Dichloropropene	<5.4	ug/L	18.0	5.4	10		06/24/19 22:33	563-58-6	
1,2,3-Trichlorobenzene	<6.3	ug/L	50.0	6.3	10		06/24/19 22:33	87-61-6	
1,2,3-Trichloropropane	<5.9	ug/L	50.0	5.9	10		06/24/19 22:33	96-18-4	
1,2,4-Trichlorobenzene	<9.5	ug/L	50.0	9.5	10		06/24/19 22:33	120-82-1	
1,2,4-Trimethylbenzene	<8.4	ug/L	28.0	8.4	10		06/24/19 22:33	95-63-6	
1,2-Dibromo-3-chloropropane	<17.6	ug/L	58.8	17.6	10		06/24/19 22:33	96-12-8	
1,2-Dibromoethane (EDB)	<8.3	ug/L	27.6	8.3	10		06/24/19 22:33	106-93-4	
1,2-Dichlorobenzene	<7.1	ug/L	23.5	7.1	10		06/24/19 22:33	95-50-1	
1,2-Dichloroethane	<2.8	ug/L	10.0	2.8	10		06/24/19 22:33	107-06-2	
1,2-Dichloropropane	<2.8	ug/L	10.0	2.8	10		06/24/19 22:33	78-87-5	
1,3,5-Trimethylbenzene	<8.7	ug/L	29.1	8.7	10		06/24/19 22:33	108-67-8	
1,3-Dichlorobenzene	<6.3	ug/L	20.9	6.3	10		06/24/19 22:33	541-73-1	
1,3-Dichloropropane	<8.3	ug/L	27.5	8.3	10		06/24/19 22:33	142-28-9	

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## ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189917

**Sample: OP-14**      **Lab ID: 40189917014**      Collected: 06/20/19 11:04      Received: 06/21/19 10:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,4-Dichlorobenzene	<9.4	ug/L	31.5	9.4	10		06/24/19 22:33	106-46-7	
2,2-Dichloropropane	<22.7	ug/L	75.5	22.7	10		06/24/19 22:33	594-20-7	
2-Chlorotoluene	<9.3	ug/L	50.0	9.3	10		06/24/19 22:33	95-49-8	
4-Chlorotoluene	<7.6	ug/L	25.2	7.6	10		06/24/19 22:33	106-43-4	
Benzene	<2.5	ug/L	10.0	2.5	10		06/24/19 22:33	71-43-2	
Bromobenzene	<2.4	ug/L	10.0	2.4	10		06/24/19 22:33	108-86-1	
Bromochloromethane	<3.6	ug/L	50.0	3.6	10		06/24/19 22:33	74-97-5	
Bromodichloromethane	<3.6	ug/L	12.1	3.6	10		06/24/19 22:33	75-27-4	
Bromoform	<39.7	ug/L	132	39.7	10		06/24/19 22:33	75-25-2	
Bromomethane	<9.7	ug/L	50.0	9.7	10		06/24/19 22:33	74-83-9	
Carbon tetrachloride	<1.7	ug/L	10.0	1.7	10		06/24/19 22:33	56-23-5	
Chlorobenzene	<7.1	ug/L	23.7	7.1	10		06/24/19 22:33	108-90-7	
Chloroethane	<13.4	ug/L	50.0	13.4	10		06/24/19 22:33	75-00-3	
Chloroform	<12.7	ug/L	50.0	12.7	10		06/24/19 22:33	67-66-3	
Chloromethane	<21.9	ug/L	73.0	21.9	10		06/24/19 22:33	74-87-3	
Dibromochloromethane	<26.0	ug/L	86.7	26.0	10		06/24/19 22:33	124-48-1	
Dibromomethane	<9.4	ug/L	31.2	9.4	10		06/24/19 22:33	74-95-3	
Dichlorodifluoromethane	<5.0	ug/L	50.0	5.0	10		06/24/19 22:33	75-71-8	
Diisopropyl ether	<18.9	ug/L	62.9	18.9	10		06/24/19 22:33	108-20-3	
Ethylbenzene	<2.2	ug/L	10.0	2.2	10		06/24/19 22:33	100-41-4	
Hexachloro-1,3-butadiene	<11.8	ug/L	50.0	11.8	10		06/24/19 22:33	87-68-3	
Isopropylbenzene (Cumene)	<3.9	ug/L	50.0	3.9	10		06/24/19 22:33	98-82-8	
Methyl-tert-butyl ether	<12.5	ug/L	41.5	12.5	10		06/24/19 22:33	1634-04-4	
Methylene Chloride	<5.8	ug/L	50.0	5.8	10		06/24/19 22:33	75-09-2	
Naphthalene	<11.8	ug/L	50.0	11.8	10		06/24/19 22:33	91-20-3	
Styrene	<4.7	ug/L	15.5	4.7	10		06/24/19 22:33	100-42-5	
Tetrachloroethene	13.3	ug/L	10.9	3.3	10		06/24/19 22:33	127-18-4	
Toluene	<1.7	ug/L	50.0	1.7	10		06/24/19 22:33	108-88-3	
Trichloroethene	473	ug/L	10.0	2.6	10		06/24/19 22:33	79-01-6	
Trichlorofluoromethane	<2.1	ug/L	10.0	2.1	10		06/24/19 22:33	75-69-4	
Vinyl chloride	<1.7	ug/L	10.0	1.7	10		06/24/19 22:33	75-01-4	
cis-1,2-Dichloroethene	16.4	ug/L	10.0	2.7	10		06/24/19 22:33	156-59-2	
cis-1,3-Dichloropropene	<36.3	ug/L	121	36.3	10		06/24/19 22:33	10061-01-5	
m&p-Xylene	<4.7	ug/L	20.0	4.7	10		06/24/19 22:33	179601-23-1	
n-Butylbenzene	<7.1	ug/L	23.6	7.1	10		06/24/19 22:33	104-51-8	
n-Propylbenzene	<8.1	ug/L	50.0	8.1	10		06/24/19 22:33	103-65-1	
o-Xylene	<2.6	ug/L	10.0	2.6	10		06/24/19 22:33	95-47-6	
p-Isopropyltoluene	<8.0	ug/L	26.7	8.0	10		06/24/19 22:33	99-87-6	
sec-Butylbenzene	<8.5	ug/L	50.0	8.5	10		06/24/19 22:33	135-98-8	
tert-Butylbenzene	<3.0	ug/L	10.1	3.0	10		06/24/19 22:33	98-06-6	
trans-1,2-Dichloroethene	<10.9	ug/L	36.4	10.9	10		06/24/19 22:33	156-60-5	
trans-1,3-Dichloropropene	<43.7	ug/L	146	43.7	10		06/24/19 22:33	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		10		06/24/19 22:33	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		10		06/24/19 22:33	1868-53-7	
Toluene-d8 (S)	103	%	70-130		10		06/24/19 22:33	2037-26-5	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189917

**Sample: RW-17**      **Lab ID: 40189917015**      Collected: 06/20/19 12:04      Received: 06/21/19 10:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<2.7	ug/L	10.0	2.7	10		06/24/19 22:55	630-20-6	
1,1,1-Trichloroethane	54.5	ug/L	10.0	2.4	10		06/24/19 22:55	71-55-6	
1,1,2,2-Tetrachloroethane	<2.8	ug/L	10.0	2.8	10		06/24/19 22:55	79-34-5	
1,1,2-Trichloroethane	<5.5	ug/L	50.0	5.5	10		06/24/19 22:55	79-00-5	
1,1-Dichloroethane	6.6J	ug/L	10.0	2.7	10		06/24/19 22:55	75-34-3	
1,1-Dichloroethene	<2.4	ug/L	10.0	2.4	10		06/24/19 22:55	75-35-4	
1,1-Dichloropropene	<5.4	ug/L	18.0	5.4	10		06/24/19 22:55	563-58-6	
1,2,3-Trichlorobenzene	<6.3	ug/L	50.0	6.3	10		06/24/19 22:55	87-61-6	
1,2,3-Trichloropropane	<5.9	ug/L	50.0	5.9	10		06/24/19 22:55	96-18-4	
1,2,4-Trichlorobenzene	<9.5	ug/L	50.0	9.5	10		06/24/19 22:55	120-82-1	
1,2,4-Trimethylbenzene	<8.4	ug/L	28.0	8.4	10		06/24/19 22:55	95-63-6	
1,2-Dibromo-3-chloropropane	<17.6	ug/L	58.8	17.6	10		06/24/19 22:55	96-12-8	
1,2-Dibromoethane (EDB)	<8.3	ug/L	27.6	8.3	10		06/24/19 22:55	106-93-4	
1,2-Dichlorobenzene	<7.1	ug/L	23.5	7.1	10		06/24/19 22:55	95-50-1	
1,2-Dichloroethane	<2.8	ug/L	10.0	2.8	10		06/24/19 22:55	107-06-2	
1,2-Dichloropropane	<2.8	ug/L	10.0	2.8	10		06/24/19 22:55	78-87-5	
1,3,5-Trimethylbenzene	<8.7	ug/L	29.1	8.7	10		06/24/19 22:55	108-67-8	
1,3-Dichlorobenzene	<6.3	ug/L	20.9	6.3	10		06/24/19 22:55	541-73-1	
1,3-Dichloropropane	<8.3	ug/L	27.5	8.3	10		06/24/19 22:55	142-28-9	
1,4-Dichlorobenzene	<9.4	ug/L	31.5	9.4	10		06/24/19 22:55	106-46-7	
2,2-Dichloropropane	<22.7	ug/L	75.5	22.7	10		06/24/19 22:55	594-20-7	
2-Chlorotoluene	<9.3	ug/L	50.0	9.3	10		06/24/19 22:55	95-49-8	
4-Chlorotoluene	<7.6	ug/L	25.2	7.6	10		06/24/19 22:55	106-43-4	
Benzene	<2.5	ug/L	10.0	2.5	10		06/24/19 22:55	71-43-2	
Bromobenzene	<2.4	ug/L	10.0	2.4	10		06/24/19 22:55	108-86-1	
Bromochloromethane	<3.6	ug/L	50.0	3.6	10		06/24/19 22:55	74-97-5	
Bromodichloromethane	<3.6	ug/L	12.1	3.6	10		06/24/19 22:55	75-27-4	
Bromoform	<39.7	ug/L	132	39.7	10		06/24/19 22:55	75-25-2	
Bromomethane	<9.7	ug/L	50.0	9.7	10		06/24/19 22:55	74-83-9	
Carbon tetrachloride	<1.7	ug/L	10.0	1.7	10		06/24/19 22:55	56-23-5	
Chlorobenzene	<7.1	ug/L	23.7	7.1	10		06/24/19 22:55	108-90-7	
Chloroethane	<13.4	ug/L	50.0	13.4	10		06/24/19 22:55	75-00-3	
Chloroform	<12.7	ug/L	50.0	12.7	10		06/24/19 22:55	67-66-3	
Chloromethane	<21.9	ug/L	73.0	21.9	10		06/24/19 22:55	74-87-3	
Dibromochloromethane	<26.0	ug/L	86.7	26.0	10		06/24/19 22:55	124-48-1	
Dibromomethane	<9.4	ug/L	31.2	9.4	10		06/24/19 22:55	74-95-3	
Dichlorodifluoromethane	<5.0	ug/L	50.0	5.0	10		06/24/19 22:55	75-71-8	
Diisopropyl ether	<18.9	ug/L	62.9	18.9	10		06/24/19 22:55	108-20-3	
Ethylbenzene	<2.2	ug/L	10.0	2.2	10		06/24/19 22:55	100-41-4	
Hexachloro-1,3-butadiene	<11.8	ug/L	50.0	11.8	10		06/24/19 22:55	87-68-3	
Isopropylbenzene (Cumene)	<3.9	ug/L	50.0	3.9	10		06/24/19 22:55	98-82-8	
Methyl-tert-butyl ether	<12.5	ug/L	41.5	12.5	10		06/24/19 22:55	1634-04-4	
Methylene Chloride	<5.8	ug/L	50.0	5.8	10		06/24/19 22:55	75-09-2	
Naphthalene	<11.8	ug/L	50.0	11.8	10		06/24/19 22:55	91-20-3	
Styrene	<4.7	ug/L	15.5	4.7	10		06/24/19 22:55	100-42-5	
Tetrachloroethene	7.3J	ug/L	10.9	3.3	10		06/24/19 22:55	127-18-4	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189917

**Sample: RW-17**      **Lab ID: 40189917015**      Collected: 06/20/19 12:04      Received: 06/21/19 10:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Toluene	<1.7	ug/L	50.0	1.7	10		06/24/19 22:55	108-88-3	
Trichloroethene	606	ug/L	10.0	2.6	10		06/24/19 22:55	79-01-6	
Trichlorofluoromethane	<2.1	ug/L	10.0	2.1	10		06/24/19 22:55	75-69-4	
Vinyl chloride	<1.7	ug/L	10.0	1.7	10		06/24/19 22:55	75-01-4	
cis-1,2-Dichloroethene	39.3	ug/L	10.0	2.7	10		06/24/19 22:55	156-59-2	
cis-1,3-Dichloropropene	<36.3	ug/L	121	36.3	10		06/24/19 22:55	10061-01-5	
m&p-Xylene	<4.7	ug/L	20.0	4.7	10		06/24/19 22:55	179601-23-1	
n-Butylbenzene	<7.1	ug/L	23.6	7.1	10		06/24/19 22:55	104-51-8	
n-Propylbenzene	<8.1	ug/L	50.0	8.1	10		06/24/19 22:55	103-65-1	
o-Xylene	<2.6	ug/L	10.0	2.6	10		06/24/19 22:55	95-47-6	
p-Isopropyltoluene	<8.0	ug/L	26.7	8.0	10		06/24/19 22:55	99-87-6	
sec-Butylbenzene	<8.5	ug/L	50.0	8.5	10		06/24/19 22:55	135-98-8	
tert-Butylbenzene	<3.0	ug/L	10.1	3.0	10		06/24/19 22:55	98-06-6	
trans-1,2-Dichloroethene	<10.9	ug/L	36.4	10.9	10		06/24/19 22:55	156-60-5	
trans-1,3-Dichloropropene	<43.7	ug/L	146	43.7	10		06/24/19 22:55	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%	70-130		10		06/24/19 22:55	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		10		06/24/19 22:55	1868-53-7	
Toluene-d8 (S)	101	%	70-130		10		06/24/19 22:55	2037-26-5	

**Sample: RW-18**      **Lab ID: 40189917016**      Collected: 06/20/19 12:52      Received: 06/21/19 10:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<1.3	ug/L	5.0	1.3	5		06/25/19 10:04	630-20-6	
1,1,1-Trichloroethane	74.4	ug/L	5.0	1.2	5		06/25/19 10:04	71-55-6	
1,1,1,2,2-Tetrachloroethane	<1.4	ug/L	5.0	1.4	5		06/25/19 10:04	79-34-5	
1,1,2-Trichloroethane	<2.8	ug/L	25.0	2.8	5		06/25/19 10:04	79-00-5	
1,1-Dichloroethane	5.2	ug/L	5.0	1.4	5		06/25/19 10:04	75-34-3	
1,1-Dichloroethene	3.1J	ug/L	5.0	1.2	5		06/25/19 10:04	75-35-4	
1,1-Dichloropropene	<2.7	ug/L	9.0	2.7	5		06/25/19 10:04	563-58-6	
1,2,3-Trichlorobenzene	<3.1	ug/L	25.0	3.1	5		06/25/19 10:04	87-61-6	
1,2,3-Trichloropropane	<3.0	ug/L	25.0	3.0	5		06/25/19 10:04	96-18-4	
1,2,4-Trichlorobenzene	<4.8	ug/L	25.0	4.8	5		06/25/19 10:04	120-82-1	
1,2,4-Trimethylbenzene	<4.2	ug/L	14.0	4.2	5		06/25/19 10:04	95-63-6	
1,2-Dibromo-3-chloropropane	<8.8	ug/L	29.4	8.8	5		06/25/19 10:04	96-12-8	
1,2-Dibromoethane (EDB)	<4.1	ug/L	13.8	4.1	5		06/25/19 10:04	106-93-4	
1,2-Dichlorobenzene	<3.5	ug/L	11.8	3.5	5		06/25/19 10:04	95-50-1	
1,2-Dichloroethane	<1.4	ug/L	5.0	1.4	5		06/25/19 10:04	107-06-2	
1,2-Dichloropropane	<1.4	ug/L	5.0	1.4	5		06/25/19 10:04	78-87-5	
1,3,5-Trimethylbenzene	<4.4	ug/L	14.6	4.4	5		06/25/19 10:04	108-67-8	
1,3-Dichlorobenzene	<3.1	ug/L	10.5	3.1	5		06/25/19 10:04	541-73-1	
1,3-Dichloropropane	<4.1	ug/L	13.8	4.1	5		06/25/19 10:04	142-28-9	

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## ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189917

**Sample: RW-18**      **Lab ID: 40189917016**      Collected: 06/20/19 12:52      Received: 06/21/19 10:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,4-Dichlorobenzene	<4.7	ug/L	15.7	4.7	5		06/25/19 10:04	106-46-7	
2,2-Dichloropropane	<11.3	ug/L	37.8	11.3	5		06/25/19 10:04	594-20-7	
2-Chlorotoluene	<4.6	ug/L	25.0	4.6	5		06/25/19 10:04	95-49-8	
4-Chlorotoluene	<3.8	ug/L	12.6	3.8	5		06/25/19 10:04	106-43-4	
Benzene	<1.2	ug/L	5.0	1.2	5		06/25/19 10:04	71-43-2	
Bromobenzene	<1.2	ug/L	5.0	1.2	5		06/25/19 10:04	108-86-1	
Bromochloromethane	<1.8	ug/L	25.0	1.8	5		06/25/19 10:04	74-97-5	
Bromodichloromethane	<1.8	ug/L	6.1	1.8	5		06/25/19 10:04	75-27-4	
Bromoform	<19.9	ug/L	66.2	19.9	5		06/25/19 10:04	75-25-2	
Bromomethane	<4.9	ug/L	25.0	4.9	5		06/25/19 10:04	74-83-9	
Carbon tetrachloride	<0.83	ug/L	5.0	0.83	5		06/25/19 10:04	56-23-5	
Chlorobenzene	<3.6	ug/L	11.8	3.6	5		06/25/19 10:04	108-90-7	
Chloroethane	<6.7	ug/L	25.0	6.7	5		06/25/19 10:04	75-00-3	
Chloroform	<6.4	ug/L	25.0	6.4	5		06/25/19 10:04	67-66-3	
Chloromethane	<10.9	ug/L	36.5	10.9	5		06/25/19 10:04	74-87-3	
Dibromochloromethane	<13.0	ug/L	43.4	13.0	5		06/25/19 10:04	124-48-1	
Dibromomethane	<4.7	ug/L	15.6	4.7	5		06/25/19 10:04	74-95-3	
Dichlorodifluoromethane	<2.5	ug/L	25.0	2.5	5		06/25/19 10:04	75-71-8	
Diisopropyl ether	<9.4	ug/L	31.5	9.4	5		06/25/19 10:04	108-20-3	
Ethylbenzene	<1.1	ug/L	5.0	1.1	5		06/25/19 10:04	100-41-4	
Hexachloro-1,3-butadiene	<5.9	ug/L	25.0	5.9	5		06/25/19 10:04	87-68-3	
Isopropylbenzene (Cumene)	<2.0	ug/L	25.0	2.0	5		06/25/19 10:04	98-82-8	
Methyl-tert-butyl ether	<6.2	ug/L	20.8	6.2	5		06/25/19 10:04	1634-04-4	
Methylene Chloride	<2.9	ug/L	25.0	2.9	5		06/25/19 10:04	75-09-2	
Naphthalene	<5.9	ug/L	25.0	5.9	5		06/25/19 10:04	91-20-3	
Styrene	<2.3	ug/L	7.8	2.3	5		06/25/19 10:04	100-42-5	
Tetrachloroethene	2.7J	ug/L	5.4	1.6	5		06/25/19 10:04	127-18-4	
Toluene	<0.86	ug/L	25.0	0.86	5		06/25/19 10:04	108-88-3	
Trichloroethene	288	ug/L	5.0	1.3	5		06/25/19 10:04	79-01-6	
Trichlorofluoromethane	<1.1	ug/L	5.0	1.1	5		06/25/19 10:04	75-69-4	
Vinyl chloride	<0.87	ug/L	5.0	0.87	5		06/25/19 10:04	75-01-4	
cis-1,2-Dichloroethene	45.0	ug/L	5.0	1.4	5		06/25/19 10:04	156-59-2	
cis-1,3-Dichloropropene	<18.1	ug/L	60.5	18.1	5		06/25/19 10:04	10061-01-5	
m&p-Xylene	<2.3	ug/L	10.0	2.3	5		06/25/19 10:04	179601-23-1	
n-Butylbenzene	<3.5	ug/L	11.8	3.5	5		06/25/19 10:04	104-51-8	
n-Propylbenzene	<4.1	ug/L	25.0	4.1	5		06/25/19 10:04	103-65-1	
o-Xylene	<1.3	ug/L	5.0	1.3	5		06/25/19 10:04	95-47-6	
p-Isopropyltoluene	<4.0	ug/L	13.3	4.0	5		06/25/19 10:04	99-87-6	
sec-Butylbenzene	<4.2	ug/L	25.0	4.2	5		06/25/19 10:04	135-98-8	
tert-Butylbenzene	<1.5	ug/L	5.1	1.5	5		06/25/19 10:04	98-06-6	
trans-1,2-Dichloroethene	5.7J	ug/L	18.2	5.5	5		06/25/19 10:04	156-60-5	
trans-1,3-Dichloropropene	<21.9	ug/L	72.8	21.9	5		06/25/19 10:04	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		5		06/25/19 10:04	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		5		06/25/19 10:04	1868-53-7	
Toluene-d8 (S)	101	%	70-130		5		06/25/19 10:04	2037-26-5	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189917

Sample: OP-15 Lab ID: 40189917017 Collected: 06/20/19 13:46 Received: 06/21/19 10:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.67	ug/L	2.5	0.67	2.5		06/25/19 10:25	630-20-6	
1,1,1-Trichloroethane	62.1	ug/L	2.5	0.61	2.5		06/25/19 10:25	71-55-6	
1,1,2,2-Tetrachloroethane	<0.69	ug/L	2.5	0.69	2.5		06/25/19 10:25	79-34-5	
1,1,2-Trichloroethane	<1.4	ug/L	12.5	1.4	2.5		06/25/19 10:25	79-00-5	
1,1-Dichloroethane	6.6	ug/L	2.5	0.68	2.5		06/25/19 10:25	75-34-3	
1,1-Dichloroethene	1.9J	ug/L	2.5	0.61	2.5		06/25/19 10:25	75-35-4	
1,1-Dichloropropene	<1.4	ug/L	4.5	1.4	2.5		06/25/19 10:25	563-58-6	
1,2,3-Trichlorobenzene	<1.6	ug/L	12.5	1.6	2.5		06/25/19 10:25	87-61-6	
1,2,3-Trichloropropane	<1.5	ug/L	12.5	1.5	2.5		06/25/19 10:25	96-18-4	
1,2,4-Trichlorobenzene	<2.4	ug/L	12.5	2.4	2.5		06/25/19 10:25	120-82-1	
1,2,4-Trimethylbenzene	<2.1	ug/L	7.0	2.1	2.5		06/25/19 10:25	95-63-6	
1,2-Dibromo-3-chloropropane	<4.4	ug/L	14.7	4.4	2.5		06/25/19 10:25	96-12-8	
1,2-Dibromoethane (EDB)	<2.1	ug/L	6.9	2.1	2.5		06/25/19 10:25	106-93-4	
1,2-Dichlorobenzene	<1.8	ug/L	5.9	1.8	2.5		06/25/19 10:25	95-50-1	
1,2-Dichloroethane	<0.70	ug/L	2.5	0.70	2.5		06/25/19 10:25	107-06-2	
1,2-Dichloropropane	<0.71	ug/L	2.5	0.71	2.5		06/25/19 10:25	78-87-5	
1,3,5-Trimethylbenzene	<2.2	ug/L	7.3	2.2	2.5		06/25/19 10:25	108-67-8	
1,3-Dichlorobenzene	<1.6	ug/L	5.2	1.6	2.5		06/25/19 10:25	541-73-1	
1,3-Dichloropropane	<2.1	ug/L	6.9	2.1	2.5		06/25/19 10:25	142-28-9	
1,4-Dichlorobenzene	<2.4	ug/L	7.9	2.4	2.5		06/25/19 10:25	106-46-7	
2,2-Dichloropropane	<5.7	ug/L	18.9	5.7	2.5		06/25/19 10:25	594-20-7	
2-Chlorotoluene	<2.3	ug/L	12.5	2.3	2.5		06/25/19 10:25	95-49-8	
4-Chlorotoluene	<1.9	ug/L	6.3	1.9	2.5		06/25/19 10:25	106-43-4	
Benzene	<0.62	ug/L	2.5	0.62	2.5		06/25/19 10:25	71-43-2	
Bromobenzene	<0.60	ug/L	2.5	0.60	2.5		06/25/19 10:25	108-86-1	
Bromochloromethane	<0.91	ug/L	12.5	0.91	2.5		06/25/19 10:25	74-97-5	
Bromodichloromethane	<0.91	ug/L	3.0	0.91	2.5		06/25/19 10:25	75-27-4	
Bromoform	<9.9	ug/L	33.1	9.9	2.5		06/25/19 10:25	75-25-2	
Bromomethane	<2.4	ug/L	12.5	2.4	2.5		06/25/19 10:25	74-83-9	
Carbon tetrachloride	<0.41	ug/L	2.5	0.41	2.5		06/25/19 10:25	56-23-5	
Chlorobenzene	<1.8	ug/L	5.9	1.8	2.5		06/25/19 10:25	108-90-7	
Chloroethane	<3.4	ug/L	12.5	3.4	2.5		06/25/19 10:25	75-00-3	
Chloroform	<3.2	ug/L	12.5	3.2	2.5		06/25/19 10:25	67-66-3	
Chloromethane	<5.5	ug/L	18.2	5.5	2.5		06/25/19 10:25	74-87-3	
Dibromochloromethane	<6.5	ug/L	21.7	6.5	2.5		06/25/19 10:25	124-48-1	
Dibromomethane	<2.3	ug/L	7.8	2.3	2.5		06/25/19 10:25	74-95-3	
Dichlorodifluoromethane	<1.2	ug/L	12.5	1.2	2.5		06/25/19 10:25	75-71-8	
Diisopropyl ether	<4.7	ug/L	15.7	4.7	2.5		06/25/19 10:25	108-20-3	
Ethylbenzene	<0.55	ug/L	2.5	0.55	2.5		06/25/19 10:25	100-41-4	
Hexachloro-1,3-butadiene	<3.0	ug/L	12.5	3.0	2.5		06/25/19 10:25	87-68-3	
Isopropylbenzene (Cumene)	<0.98	ug/L	12.5	0.98	2.5		06/25/19 10:25	98-82-8	
Methyl-tert-butyl ether	<3.1	ug/L	10.4	3.1	2.5		06/25/19 10:25	1634-04-4	
Methylene Chloride	<1.5	ug/L	12.5	1.5	2.5		06/25/19 10:25	75-09-2	
Naphthalene	<2.9	ug/L	12.5	2.9	2.5		06/25/19 10:25	91-20-3	
Styrene	<1.2	ug/L	3.9	1.2	2.5		06/25/19 10:25	100-42-5	
Tetrachloroethene	27.8	ug/L	2.7	0.82	2.5		06/25/19 10:25	127-18-4	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189917

**Sample: OP-15**      **Lab ID: 40189917017**      Collected: 06/20/19 13:46      Received: 06/21/19 10:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Toluene	<0.43	ug/L	12.5	0.43	2.5		06/25/19 10:25	108-88-3	
Trichloroethene	282	ug/L	2.5	0.64	2.5		06/25/19 10:25	79-01-6	
Trichlorofluoromethane	<0.54	ug/L	2.5	0.54	2.5		06/25/19 10:25	75-69-4	
Vinyl chloride	0.48J	ug/L	2.5	0.44	2.5		06/25/19 10:25	75-01-4	
cis-1,2-Dichloroethene	94.0	ug/L	2.5	0.68	2.5		06/25/19 10:25	156-59-2	
cis-1,3-Dichloropropene	<9.1	ug/L	30.2	9.1	2.5		06/25/19 10:25	10061-01-5	
m&p-Xylene	<1.2	ug/L	5.0	1.2	2.5		06/25/19 10:25	179601-23-1	
n-Butylbenzene	<1.8	ug/L	5.9	1.8	2.5		06/25/19 10:25	104-51-8	
n-Propylbenzene	<2.0	ug/L	12.5	2.0	2.5		06/25/19 10:25	103-65-1	
o-Xylene	<0.65	ug/L	2.5	0.65	2.5		06/25/19 10:25	95-47-6	
p-Isopropyltoluene	<2.0	ug/L	6.7	2.0	2.5		06/25/19 10:25	99-87-6	
sec-Butylbenzene	<2.1	ug/L	12.5	2.1	2.5		06/25/19 10:25	135-98-8	
tert-Butylbenzene	<0.76	ug/L	2.5	0.76	2.5		06/25/19 10:25	98-06-6	
trans-1,2-Dichloroethene	<2.7	ug/L	9.1	2.7	2.5		06/25/19 10:25	156-60-5	
trans-1,3-Dichloropropene	<10.9	ug/L	36.4	10.9	2.5		06/25/19 10:25	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%	70-130		2.5		06/25/19 10:25	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		2.5		06/25/19 10:25	1868-53-7	
Toluene-d8 (S)	100	%	70-130		2.5		06/25/19 10:25	2037-26-5	

**Sample: RW-19**      **Lab ID: 40189917018**      Collected: 06/20/19 14:33      Received: 06/21/19 10:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<2.7	ug/L	10.0	2.7	10		06/24/19 23:59	630-20-6	
1,1,1-Trichloroethane	36.3	ug/L	10.0	2.4	10		06/24/19 23:59	71-55-6	
1,1,1,2,2-Tetrachloroethane	<2.8	ug/L	10.0	2.8	10		06/24/19 23:59	79-34-5	
1,1,2-Trichloroethane	<5.5	ug/L	50.0	5.5	10		06/24/19 23:59	79-00-5	
1,1-Dichloroethane	11.5	ug/L	10.0	2.7	10		06/24/19 23:59	75-34-3	
1,1-Dichloroethene	3.3J	ug/L	10.0	2.4	10		06/24/19 23:59	75-35-4	
1,1-Dichloropropene	<5.4	ug/L	18.0	5.4	10		06/24/19 23:59	563-58-6	
1,2,3-Trichlorobenzene	<6.3	ug/L	50.0	6.3	10		06/24/19 23:59	87-61-6	
1,2,3-Trichloropropane	<5.9	ug/L	50.0	5.9	10		06/24/19 23:59	96-18-4	
1,2,4-Trichlorobenzene	<9.5	ug/L	50.0	9.5	10		06/24/19 23:59	120-82-1	
1,2,4-Trimethylbenzene	<8.4	ug/L	28.0	8.4	10		06/24/19 23:59	95-63-6	
1,2-Dibromo-3-chloropropane	<17.6	ug/L	58.8	17.6	10		06/24/19 23:59	96-12-8	
1,2-Dibromoethane (EDB)	<8.3	ug/L	27.6	8.3	10		06/24/19 23:59	106-93-4	
1,2-Dichlorobenzene	<7.1	ug/L	23.5	7.1	10		06/24/19 23:59	95-50-1	
1,2-Dichloroethane	<2.8	ug/L	10.0	2.8	10		06/24/19 23:59	107-06-2	
1,2-Dichloropropane	<2.8	ug/L	10.0	2.8	10		06/24/19 23:59	78-87-5	
1,3,5-Trimethylbenzene	<8.7	ug/L	29.1	8.7	10		06/24/19 23:59	108-67-8	
1,3-Dichlorobenzene	<6.3	ug/L	20.9	6.3	10		06/24/19 23:59	541-73-1	
1,3-Dichloropropane	<8.3	ug/L	27.5	8.3	10		06/24/19 23:59	142-28-9	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189917

**Sample: RW-19**      **Lab ID: 40189917018**      Collected: 06/20/19 14:33      Received: 06/21/19 10:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,4-Dichlorobenzene	<9.4	ug/L	31.5	9.4	10		06/24/19 23:59	106-46-7	
2,2-Dichloropropane	<22.7	ug/L	75.5	22.7	10		06/24/19 23:59	594-20-7	
2-Chlorotoluene	<9.3	ug/L	50.0	9.3	10		06/24/19 23:59	95-49-8	
4-Chlorotoluene	<7.6	ug/L	25.2	7.6	10		06/24/19 23:59	106-43-4	
Benzene	<2.5	ug/L	10.0	2.5	10		06/24/19 23:59	71-43-2	
Bromobenzene	<2.4	ug/L	10.0	2.4	10		06/24/19 23:59	108-86-1	
Bromochloromethane	<3.6	ug/L	50.0	3.6	10		06/24/19 23:59	74-97-5	
Bromodichloromethane	<3.6	ug/L	12.1	3.6	10		06/24/19 23:59	75-27-4	
Bromoform	<39.7	ug/L	132	39.7	10		06/24/19 23:59	75-25-2	
Bromomethane	<9.7	ug/L	50.0	9.7	10		06/24/19 23:59	74-83-9	
Carbon tetrachloride	<1.7	ug/L	10.0	1.7	10		06/24/19 23:59	56-23-5	
Chlorobenzene	<7.1	ug/L	23.7	7.1	10		06/24/19 23:59	108-90-7	
Chloroethane	<13.4	ug/L	50.0	13.4	10		06/24/19 23:59	75-00-3	
Chloroform	30.0J	ug/L	50.0	12.7	10		06/24/19 23:59	67-66-3	
Chloromethane	<21.9	ug/L	73.0	21.9	10		06/24/19 23:59	74-87-3	
Dibromochloromethane	<26.0	ug/L	86.7	26.0	10		06/24/19 23:59	124-48-1	
Dibromomethane	<9.4	ug/L	31.2	9.4	10		06/24/19 23:59	74-95-3	
Dichlorodifluoromethane	<5.0	ug/L	50.0	5.0	10		06/24/19 23:59	75-71-8	
Diisopropyl ether	<18.9	ug/L	62.9	18.9	10		06/24/19 23:59	108-20-3	
Ethylbenzene	<2.2	ug/L	10.0	2.2	10		06/24/19 23:59	100-41-4	
Hexachloro-1,3-butadiene	<11.8	ug/L	50.0	11.8	10		06/24/19 23:59	87-68-3	
Isopropylbenzene (Cumene)	<3.9	ug/L	50.0	3.9	10		06/24/19 23:59	98-82-8	
Methyl-tert-butyl ether	<12.5	ug/L	41.5	12.5	10		06/24/19 23:59	1634-04-4	
Methylene Chloride	<5.8	ug/L	50.0	5.8	10		06/24/19 23:59	75-09-2	
Naphthalene	<11.8	ug/L	50.0	11.8	10		06/24/19 23:59	91-20-3	
Styrene	<4.7	ug/L	15.5	4.7	10		06/24/19 23:59	100-42-5	
Tetrachloroethene	7.4J	ug/L	10.9	3.3	10		06/24/19 23:59	127-18-4	
Toluene	<1.7	ug/L	50.0	1.7	10		06/24/19 23:59	108-88-3	
Trichloroethene	996	ug/L	10.0	2.6	10		06/24/19 23:59	79-01-6	
Trichlorofluoromethane	<2.1	ug/L	10.0	2.1	10		06/24/19 23:59	75-69-4	
Vinyl chloride	8.0J	ug/L	10.0	1.7	10		06/24/19 23:59	75-01-4	
cis-1,2-Dichloroethene	280	ug/L	10.0	2.7	10		06/24/19 23:59	156-59-2	
cis-1,3-Dichloropropene	<36.3	ug/L	121	36.3	10		06/24/19 23:59	10061-01-5	
m&p-Xylene	<4.7	ug/L	20.0	4.7	10		06/24/19 23:59	179601-23-1	
n-Butylbenzene	<7.1	ug/L	23.6	7.1	10		06/24/19 23:59	104-51-8	
n-Propylbenzene	<8.1	ug/L	50.0	8.1	10		06/24/19 23:59	103-65-1	
o-Xylene	<2.6	ug/L	10.0	2.6	10		06/24/19 23:59	95-47-6	
p-Isopropyltoluene	<8.0	ug/L	26.7	8.0	10		06/24/19 23:59	99-87-6	
sec-Butylbenzene	<8.5	ug/L	50.0	8.5	10		06/24/19 23:59	135-98-8	
tert-Butylbenzene	<3.0	ug/L	10.1	3.0	10		06/24/19 23:59	98-06-6	
trans-1,2-Dichloroethene	19.8J	ug/L	36.4	10.9	10		06/24/19 23:59	156-60-5	
trans-1,3-Dichloropropene	<43.7	ug/L	146	43.7	10		06/24/19 23:59	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		10		06/24/19 23:59	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		10		06/24/19 23:59	1868-53-7	
Toluene-d8 (S)	101	%	70-130		10		06/24/19 23:59	2037-26-5	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189917

Sample: OP-16 Lab ID: 40189917019 Collected: 06/20/19 15:47 Received: 06/21/19 10:20 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.54	ug/L	2.0	0.54	2		06/25/19 10:47	630-20-6	
1,1,1-Trichloroethane	7.0	ug/L	2.0	0.49	2		06/25/19 10:47	71-55-6	
1,1,2,2-Tetrachloroethane	<0.55	ug/L	2.0	0.55	2		06/25/19 10:47	79-34-5	
1,1,2-Trichloroethane	<1.1	ug/L	10.0	1.1	2		06/25/19 10:47	79-00-5	
1,1-Dichloroethane	26.2	ug/L	2.0	0.55	2		06/25/19 10:47	75-34-3	
1,1-Dichloroethene	0.99J	ug/L	2.0	0.49	2		06/25/19 10:47	75-35-4	
1,1-Dichloropropene	<1.1	ug/L	3.6	1.1	2		06/25/19 10:47	563-58-6	
1,2,3-Trichlorobenzene	<1.3	ug/L	10.0	1.3	2		06/25/19 10:47	87-61-6	
1,2,3-Trichloropropane	<1.2	ug/L	10.0	1.2	2		06/25/19 10:47	96-18-4	
1,2,4-Trichlorobenzene	<1.9	ug/L	10.0	1.9	2		06/25/19 10:47	120-82-1	
1,2,4-Trimethylbenzene	<1.7	ug/L	5.6	1.7	2		06/25/19 10:47	95-63-6	
1,2-Dibromo-3-chloropropane	<3.5	ug/L	11.8	3.5	2		06/25/19 10:47	96-12-8	
1,2-Dibromoethane (EDB)	<1.7	ug/L	5.5	1.7	2		06/25/19 10:47	106-93-4	
1,2-Dichlorobenzene	<1.4	ug/L	4.7	1.4	2		06/25/19 10:47	95-50-1	
1,2-Dichloroethane	<0.56	ug/L	2.0	0.56	2		06/25/19 10:47	107-06-2	
1,2-Dichloropropane	<0.57	ug/L	2.0	0.57	2		06/25/19 10:47	78-87-5	
1,3,5-Trimethylbenzene	<1.7	ug/L	5.8	1.7	2		06/25/19 10:47	108-67-8	
1,3-Dichlorobenzene	<1.3	ug/L	4.2	1.3	2		06/25/19 10:47	541-73-1	
1,3-Dichloropropane	<1.7	ug/L	5.5	1.7	2		06/25/19 10:47	142-28-9	
1,4-Dichlorobenzene	<1.9	ug/L	6.3	1.9	2		06/25/19 10:47	106-46-7	
2,2-Dichloropropane	<4.5	ug/L	15.1	4.5	2		06/25/19 10:47	594-20-7	
2-Chlorotoluene	<1.9	ug/L	10.0	1.9	2		06/25/19 10:47	95-49-8	
4-Chlorotoluene	<1.5	ug/L	5.0	1.5	2		06/25/19 10:47	106-43-4	
Benzene	<0.49	ug/L	2.0	0.49	2		06/25/19 10:47	71-43-2	
Bromobenzene	<0.48	ug/L	2.0	0.48	2		06/25/19 10:47	108-86-1	
Bromochloromethane	<0.72	ug/L	10.0	0.72	2		06/25/19 10:47	74-97-5	
Bromodichloromethane	<0.73	ug/L	2.4	0.73	2		06/25/19 10:47	75-27-4	
Bromoform	<7.9	ug/L	26.5	7.9	2		06/25/19 10:47	75-25-2	
Bromomethane	<1.9	ug/L	10.0	1.9	2		06/25/19 10:47	74-83-9	
Carbon tetrachloride	<0.33	ug/L	2.0	0.33	2		06/25/19 10:47	56-23-5	
Chlorobenzene	<1.4	ug/L	4.7	1.4	2		06/25/19 10:47	108-90-7	
Chloroethane	<2.7	ug/L	10.0	2.7	2		06/25/19 10:47	75-00-3	
Chloroform	<2.5	ug/L	10.0	2.5	2		06/25/19 10:47	67-66-3	
Chloromethane	<4.4	ug/L	14.6	4.4	2		06/25/19 10:47	74-87-3	
Dibromochloromethane	<5.2	ug/L	17.3	5.2	2		06/25/19 10:47	124-48-1	
Dibromomethane	<1.9	ug/L	6.2	1.9	2		06/25/19 10:47	74-95-3	
Dichlorodifluoromethane	<1.0	ug/L	10.0	1.0	2		06/25/19 10:47	75-71-8	
Diisopropyl ether	<3.8	ug/L	12.6	3.8	2		06/25/19 10:47	108-20-3	
Ethylbenzene	<0.44	ug/L	2.0	0.44	2		06/25/19 10:47	100-41-4	
Hexachloro-1,3-butadiene	<2.4	ug/L	10.0	2.4	2		06/25/19 10:47	87-68-3	
Isopropylbenzene (Cumene)	1.1J	ug/L	10.0	0.79	2		06/25/19 10:47	98-82-8	
Methyl-tert-butyl ether	<2.5	ug/L	8.3	2.5	2		06/25/19 10:47	1634-04-4	
Methylene Chloride	<1.2	ug/L	10.0	1.2	2		06/25/19 10:47	75-09-2	
Naphthalene	<2.4	ug/L	10.0	2.4	2		06/25/19 10:47	91-20-3	
Styrene	<0.93	ug/L	3.1	0.93	2		06/25/19 10:47	100-42-5	
Tetrachloroethene	<0.65	ug/L	2.2	0.65	2		06/25/19 10:47	127-18-4	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189917

**Sample: OP-16**      **Lab ID: 40189917019**      Collected: 06/20/19 15:47      Received: 06/21/19 10:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Toluene	<0.34	ug/L	10.0	0.34	2		06/25/19 10:47	108-88-3	
Trichloroethene	43.8	ug/L	2.0	0.51	2		06/25/19 10:47	79-01-6	
Trichlorofluoromethane	<0.43	ug/L	2.0	0.43	2		06/25/19 10:47	75-69-4	
Vinyl chloride	106	ug/L	2.0	0.35	2		06/25/19 10:47	75-01-4	
cis-1,2-Dichloroethene	145	ug/L	2.0	0.54	2		06/25/19 10:47	156-59-2	
cis-1,3-Dichloropropene	<7.3	ug/L	24.2	7.3	2		06/25/19 10:47	10061-01-5	
m&p-Xylene	<0.93	ug/L	4.0	0.93	2		06/25/19 10:47	179601-23-1	
n-Butylbenzene	<1.4	ug/L	4.7	1.4	2		06/25/19 10:47	104-51-8	
n-Propylbenzene	<1.6	ug/L	10.0	1.6	2		06/25/19 10:47	103-65-1	
o-Xylene	1.2J	ug/L	2.0	0.52	2		06/25/19 10:47	95-47-6	
p-Isopropyltoluene	<1.6	ug/L	5.3	1.6	2		06/25/19 10:47	99-87-6	
sec-Butylbenzene	1.9J	ug/L	10.0	1.7	2		06/25/19 10:47	135-98-8	
tert-Butylbenzene	<0.61	ug/L	2.0	0.61	2		06/25/19 10:47	98-06-6	
trans-1,2-Dichloroethene	<2.2	ug/L	7.3	2.2	2		06/25/19 10:47	156-60-5	
trans-1,3-Dichloropropene	<8.7	ug/L	29.1	8.7	2		06/25/19 10:47	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		2		06/25/19 10:47	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		2		06/25/19 10:47	1868-53-7	
Toluene-d8 (S)	103	%	70-130		2		06/25/19 10:47	2037-26-5	

**Sample: DUP 4**      **Lab ID: 40189917020**      Collected: 06/20/19 00:00      Received: 06/21/19 10:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<2.7	ug/L	10.0	2.7	10		06/25/19 00:42	630-20-6	
1,1,1-Trichloroethane	35.1	ug/L	10.0	2.4	10		06/25/19 00:42	71-55-6	
1,1,1,2,2-Tetrachloroethane	<2.8	ug/L	10.0	2.8	10		06/25/19 00:42	79-34-5	
1,1,2-Trichloroethane	<5.5	ug/L	50.0	5.5	10		06/25/19 00:42	79-00-5	
1,1-Dichloroethane	12.7	ug/L	10.0	2.7	10		06/25/19 00:42	75-34-3	
1,1-Dichloroethene	3.6J	ug/L	10.0	2.4	10		06/25/19 00:42	75-35-4	
1,1-Dichloropropene	<5.4	ug/L	18.0	5.4	10		06/25/19 00:42	563-58-6	
1,2,3-Trichlorobenzene	<6.3	ug/L	50.0	6.3	10		06/25/19 00:42	87-61-6	
1,2,3-Trichloropropane	<5.9	ug/L	50.0	5.9	10		06/25/19 00:42	96-18-4	
1,2,4-Trichlorobenzene	<9.5	ug/L	50.0	9.5	10		06/25/19 00:42	120-82-1	
1,2,4-Trimethylbenzene	<8.4	ug/L	28.0	8.4	10		06/25/19 00:42	95-63-6	
1,2-Dibromo-3-chloropropane	<17.6	ug/L	58.8	17.6	10		06/25/19 00:42	96-12-8	
1,2-Dibromoethane (EDB)	<8.3	ug/L	27.6	8.3	10		06/25/19 00:42	106-93-4	
1,2-Dichlorobenzene	<7.1	ug/L	23.5	7.1	10		06/25/19 00:42	95-50-1	
1,2-Dichloroethane	<2.8	ug/L	10.0	2.8	10		06/25/19 00:42	107-06-2	
1,2-Dichloropropane	<2.8	ug/L	10.0	2.8	10		06/25/19 00:42	78-87-5	
1,3,5-Trimethylbenzene	<8.7	ug/L	29.1	8.7	10		06/25/19 00:42	108-67-8	
1,3-Dichlorobenzene	<6.3	ug/L	20.9	6.3	10		06/25/19 00:42	541-73-1	
1,3-Dichloropropane	<8.3	ug/L	27.5	8.3	10		06/25/19 00:42	142-28-9	

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## ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE  
Pace Project No.: 40189917

**Sample: DUP 4**      **Lab ID: 40189917020**      Collected: 06/20/19 00:00      Received: 06/21/19 10:20      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,4-Dichlorobenzene	<9.4	ug/L	31.5	9.4	10		06/25/19 00:42	106-46-7	
2,2-Dichloropropane	<22.7	ug/L	75.5	22.7	10		06/25/19 00:42	594-20-7	
2-Chlorotoluene	<9.3	ug/L	50.0	9.3	10		06/25/19 00:42	95-49-8	
4-Chlorotoluene	<7.6	ug/L	25.2	7.6	10		06/25/19 00:42	106-43-4	
Benzene	<2.5	ug/L	10.0	2.5	10		06/25/19 00:42	71-43-2	
Bromobenzene	<2.4	ug/L	10.0	2.4	10		06/25/19 00:42	108-86-1	
Bromochloromethane	<3.6	ug/L	50.0	3.6	10		06/25/19 00:42	74-97-5	
Bromodichloromethane	<3.6	ug/L	12.1	3.6	10		06/25/19 00:42	75-27-4	
Bromoform	<39.7	ug/L	132	39.7	10		06/25/19 00:42	75-25-2	
Bromomethane	<9.7	ug/L	50.0	9.7	10		06/25/19 00:42	74-83-9	
Carbon tetrachloride	<1.7	ug/L	10.0	1.7	10		06/25/19 00:42	56-23-5	
Chlorobenzene	<7.1	ug/L	23.7	7.1	10		06/25/19 00:42	108-90-7	
Chloroethane	<13.4	ug/L	50.0	13.4	10		06/25/19 00:42	75-00-3	
Chloroform	29.2J	ug/L	50.0	12.7	10		06/25/19 00:42	67-66-3	
Chloromethane	<21.9	ug/L	73.0	21.9	10		06/25/19 00:42	74-87-3	
Dibromochloromethane	<26.0	ug/L	86.7	26.0	10		06/25/19 00:42	124-48-1	
Dibromomethane	<9.4	ug/L	31.2	9.4	10		06/25/19 00:42	74-95-3	
Dichlorodifluoromethane	<5.0	ug/L	50.0	5.0	10		06/25/19 00:42	75-71-8	
Diisopropyl ether	<18.9	ug/L	62.9	18.9	10		06/25/19 00:42	108-20-3	
Ethylbenzene	<2.2	ug/L	10.0	2.2	10		06/25/19 00:42	100-41-4	
Hexachloro-1,3-butadiene	<11.8	ug/L	50.0	11.8	10		06/25/19 00:42	87-68-3	
Isopropylbenzene (Cumene)	<3.9	ug/L	50.0	3.9	10		06/25/19 00:42	98-82-8	
Methyl-tert-butyl ether	<12.5	ug/L	41.5	12.5	10		06/25/19 00:42	1634-04-4	
Methylene Chloride	<5.8	ug/L	50.0	5.8	10		06/25/19 00:42	75-09-2	
Naphthalene	<11.8	ug/L	50.0	11.8	10		06/25/19 00:42	91-20-3	
Styrene	<4.7	ug/L	15.5	4.7	10		06/25/19 00:42	100-42-5	
Tetrachloroethene	7.9J	ug/L	10.9	3.3	10		06/25/19 00:42	127-18-4	
Toluene	<1.7	ug/L	50.0	1.7	10		06/25/19 00:42	108-88-3	
Trichloroethene	960	ug/L	10.0	2.6	10		06/25/19 00:42	79-01-6	
Trichlorofluoromethane	<2.1	ug/L	10.0	2.1	10		06/25/19 00:42	75-69-4	
Vinyl chloride	7.5J	ug/L	10.0	1.7	10		06/25/19 00:42	75-01-4	
cis-1,2-Dichloroethene	270	ug/L	10.0	2.7	10		06/25/19 00:42	156-59-2	
cis-1,3-Dichloropropene	<36.3	ug/L	121	36.3	10		06/25/19 00:42	10061-01-5	
m&p-Xylene	<4.7	ug/L	20.0	4.7	10		06/25/19 00:42	179601-23-1	
n-Butylbenzene	<7.1	ug/L	23.6	7.1	10		06/25/19 00:42	104-51-8	
n-Propylbenzene	<8.1	ug/L	50.0	8.1	10		06/25/19 00:42	103-65-1	
o-Xylene	<2.6	ug/L	10.0	2.6	10		06/25/19 00:42	95-47-6	
p-Isopropyltoluene	<8.0	ug/L	26.7	8.0	10		06/25/19 00:42	99-87-6	
sec-Butylbenzene	<8.5	ug/L	50.0	8.5	10		06/25/19 00:42	135-98-8	
tert-Butylbenzene	<3.0	ug/L	10.1	3.0	10		06/25/19 00:42	98-06-6	
trans-1,2-Dichloroethene	18.5J	ug/L	36.4	10.9	10		06/25/19 00:42	156-60-5	
trans-1,3-Dichloropropene	<43.7	ug/L	146	43.7	10		06/25/19 00:42	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		10		06/25/19 00:42	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		10		06/25/19 00:42	1868-53-7	
Toluene-d8 (S)	102	%	70-130		10		06/25/19 00:42	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189917

QC Batch: 325333 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV  
 Associated Lab Samples: 40189917001, 40189917002, 40189917003, 40189917004, 40189917005, 40189917006, 40189917007,  
 40189917008, 40189917009, 40189917010, 40189917011, 40189917012, 40189917013, 40189917014,  
 40189917015, 40189917016, 40189917017, 40189917018, 40189917019, 40189917020

METHOD BLANK: 1889426

Matrix: Water

Associated Lab Samples: 40189917001, 40189917002, 40189917003, 40189917004, 40189917005, 40189917006, 40189917007,  
 40189917008, 40189917009, 40189917010, 40189917011, 40189917012, 40189917013, 40189917014,  
 40189917015, 40189917016, 40189917017, 40189917018, 40189917019, 40189917020

Parameter	Units	Blank Reporting		Analyzed	Qualifiers
		Result	Limit		
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	06/24/19 16:06	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	06/24/19 16:06	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	06/24/19 16:06	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	06/24/19 16:06	
1,1-Dichloroethane	ug/L	<0.27	1.0	06/24/19 16:06	
1,1-Dichloroethene	ug/L	<0.24	1.0	06/24/19 16:06	
1,1-Dichloropropene	ug/L	<0.54	1.8	06/24/19 16:06	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	06/24/19 16:06	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	06/24/19 16:06	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	06/24/19 16:06	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	06/24/19 16:06	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	06/24/19 16:06	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	06/24/19 16:06	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	06/24/19 16:06	
1,2-Dichloroethane	ug/L	<0.28	1.0	06/24/19 16:06	
1,2-Dichloropropane	ug/L	<0.28	1.0	06/24/19 16:06	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	06/24/19 16:06	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	06/24/19 16:06	
1,3-Dichloropropane	ug/L	<0.83	2.8	06/24/19 16:06	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	06/24/19 16:06	
2,2-Dichloropropane	ug/L	<2.3	7.6	06/24/19 16:06	
2-Chlorotoluene	ug/L	<0.93	5.0	06/24/19 16:06	
4-Chlorotoluene	ug/L	<0.76	2.5	06/24/19 16:06	
Benzene	ug/L	<0.25	1.0	06/24/19 16:06	
Bromobenzene	ug/L	<0.24	1.0	06/24/19 16:06	
Bromochloromethane	ug/L	<0.36	5.0	06/24/19 16:06	
Bromodichloromethane	ug/L	<0.36	1.2	06/24/19 16:06	
Bromoform	ug/L	<4.0	13.2	06/24/19 16:06	
Bromomethane	ug/L	<0.97	5.0	06/24/19 16:06	
Carbon tetrachloride	ug/L	<0.17	1.0	06/24/19 16:06	
Chlorobenzene	ug/L	<0.71	2.4	06/24/19 16:06	
Chloroethane	ug/L	<1.3	5.0	06/24/19 16:06	
Chloroform	ug/L	<1.3	5.0	06/24/19 16:06	
Chloromethane	ug/L	<2.2	7.3	06/24/19 16:06	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	06/24/19 16:06	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	06/24/19 16:06	
Dibromochloromethane	ug/L	<2.6	8.7	06/24/19 16:06	
Dibromomethane	ug/L	<0.94	3.1	06/24/19 16:06	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189917

METHOD BLANK: 1889426

Matrix: Water

Associated Lab Samples: 40189917001, 40189917002, 40189917003, 40189917004, 40189917005, 40189917006, 40189917007, 40189917008, 40189917009, 40189917010, 40189917011, 40189917012, 40189917013, 40189917014, 40189917015, 40189917016, 40189917017, 40189917018, 40189917019, 40189917020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dichlorodifluoromethane	ug/L	<0.50	5.0	06/24/19 16:06	
Diisopropyl ether	ug/L	<1.9	6.3	06/24/19 16:06	
Ethylbenzene	ug/L	<0.22	1.0	06/24/19 16:06	
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	06/24/19 16:06	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	06/24/19 16:06	
m&p-Xylene	ug/L	<0.47	2.0	06/24/19 16:06	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	06/24/19 16:06	
Methylene Chloride	ug/L	<0.58	5.0	06/24/19 16:06	
n-Butylbenzene	ug/L	<0.71	2.4	06/24/19 16:06	
n-Propylbenzene	ug/L	<0.81	5.0	06/24/19 16:06	
Naphthalene	ug/L	<1.2	5.0	06/24/19 16:06	
o-Xylene	ug/L	<0.26	1.0	06/24/19 16:06	
p-Isopropyltoluene	ug/L	<0.80	2.7	06/24/19 16:06	
sec-Butylbenzene	ug/L	<0.85	5.0	06/24/19 16:06	
Styrene	ug/L	<0.47	1.6	06/24/19 16:06	
tert-Butylbenzene	ug/L	<0.30	1.0	06/24/19 16:06	
Tetrachloroethene	ug/L	<0.33	1.1	06/24/19 16:06	
Toluene	ug/L	<0.17	5.0	06/24/19 16:06	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	06/24/19 16:06	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	06/24/19 16:06	
Trichloroethene	ug/L	<0.26	1.0	06/24/19 16:06	
Trichlorofluoromethane	ug/L	<0.21	1.0	06/24/19 16:06	
Vinyl chloride	ug/L	<0.17	1.0	06/24/19 16:06	
4-Bromofluorobenzene (S)	%	97	70-130	06/24/19 16:06	
Dibromofluoromethane (S)	%	102	70-130	06/24/19 16:06	
Toluene-d8 (S)	%	102	70-130	06/24/19 16:06	

LABORATORY CONTROL SAMPLE: 1889427

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	52.1	104	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	51.3	103	70-130	
1,1,2-Trichloroethane	ug/L	50	49.2	98	70-130	
1,1-Dichloroethane	ug/L	50	53.8	108	73-150	
1,1-Dichloroethene	ug/L	50	54.5	109	73-138	
1,2,4-Trichlorobenzene	ug/L	50	50.5	101	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	48.1	96	64-129	
1,2-Dibromoethane (EDB)	ug/L	50	48.3	97	70-130	
1,2-Dichlorobenzene	ug/L	50	50.6	101	70-130	
1,2-Dichloroethane	ug/L	50	52.0	104	75-140	
1,2-Dichloropropane	ug/L	50	47.6	95	73-135	
1,3-Dichlorobenzene	ug/L	50	50.9	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.: 40189917

LABORATORY CONTROL SAMPLE: 1889427

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	50	49.5	99	70-130	
Benzene	ug/L	50	52.4	105	70-130	
Bromodichloromethane	ug/L	50	48.7	97	70-130	
Bromoform	ug/L	50	41.5	83	68-129	
Bromomethane	ug/L	50	48.5	97	18-159	
Carbon tetrachloride	ug/L	50	47.6	95	70-130	
Chlorobenzene	ug/L	50	49.9	100	70-130	
Chloroethane	ug/L	50	47.0	94	53-147	
Chloroform	ug/L	50	49.1	98	74-136	
Chloromethane	ug/L	50	47.4	95	29-115	
cis-1,2-Dichloroethene	ug/L	50	50.6	101	70-130	
cis-1,3-Dichloropropene	ug/L	50	49.5	99	70-130	
Dibromochloromethane	ug/L	50	51.5	103	70-130	
Dichlorodifluoromethane	ug/L	50	42.0	84	10-130	
Ethylbenzene	ug/L	50	52.0	104	80-124	
Isopropylbenzene (Cumene)	ug/L	50	53.4	107	70-130	
m&p-Xylene	ug/L	100	105	105	70-130	
Methyl-tert-butyl ether	ug/L	50	50.1	100	54-137	
Methylene Chloride	ug/L	50	51.6	103	73-138	
o-Xylene	ug/L	50	50.2	100	70-130	
Styrene	ug/L	50	51.4	103	70-130	
Tetrachloroethene	ug/L	50	49.6	99	70-130	
Toluene	ug/L	50	50.6	101	80-126	
trans-1,2-Dichloroethene	ug/L	50	53.9	108	73-145	
trans-1,3-Dichloropropene	ug/L	50	46.2	92	70-130	
Trichloroethene	ug/L	50	49.7	99	70-130	
Trichlorofluoromethane	ug/L	50	56.4	113	76-147	
Vinyl chloride	ug/L	50	51.4	103	51-120	
4-Bromofluorobenzene (S)	%			101	70-130	
Dibromofluoromethane (S)	%			105	70-130	
Toluene-d8 (S)	%			100	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1889996 1889997

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40189917003 Result	Spike Conc.	Spike Conc.	Conc.								
1,1,1-Trichloroethane	ug/L	1.5	50	50	52.2	51.0	102	99	70-130	2	20		
1,1,2,2-Tetrachloroethane	ug/L	<0.28	50	50	50.3	49.3	101	99	70-130	2	20		
1,1,2-Trichloroethane	ug/L	<0.55	50	50	47.2	47.8	94	96	70-137	1	20		
1,1-Dichloroethane	ug/L	2.1	50	50	53.9	52.8	104	101	73-153	2	20		
1,1-Dichloroethene	ug/L	<0.24	50	50	53.0	51.6	106	103	73-138	3	20		
1,2,4-Trichlorobenzene	ug/L	<0.95	50	50	49.1	48.7	98	97	70-130	1	20		
1,2-Dibromo-3-chloropropane	ug/L	<1.8	50	50	47.6	46.8	95	94	58-129	2	20		
1,2-Dibromoethane (EDB)	ug/L	<0.83	50	50	47.2	47.4	94	95	70-130	0	20		

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### QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189917

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1889996		1889997		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40189917003 Result	MS Spike Conc.	MSD Spike Conc.									
1,2-Dichlorobenzene	ug/L	<0.71	50	50	49.2	48.5	98	97	70-130	2	20		
1,2-Dichloroethane	ug/L	<0.28	50	50	50.4	47.8	101	96	75-140	5	20		
1,2-Dichloropropane	ug/L	<0.28	50	50	47.2	47.4	94	95	71-138	0	20		
1,3-Dichlorobenzene	ug/L	<0.63	50	50	50.3	49.5	101	99	70-130	2	20		
1,4-Dichlorobenzene	ug/L	<0.94	50	50	48.1	47.8	96	96	70-130	1	20		
Benzene	ug/L	<0.25	50	50	50.4	48.9	101	98	70-130	3	20		
Bromodichloromethane	ug/L	<0.36	50	50	47.3	47.0	95	94	70-130	1	20		
Bromoform	ug/L	<4.0	50	50	41.1	40.6	82	81	68-129	1	20		
Bromomethane	ug/L	<0.97	50	50	49.1	49.5	98	99	15-170	1	20		
Carbon tetrachloride	ug/L	<0.17	50	50	45.8	44.3	92	89	70-130	3	20		
Chlorobenzene	ug/L	<0.71	50	50	48.3	48.2	97	96	70-130	0	20		
Chloroethane	ug/L	<1.3	50	50	47.9	45.3	96	91	51-148	6	20		
Chloroform	ug/L	<1.3	50	50	47.8	46.0	96	92	74-136	4	20		
Chloromethane	ug/L	<2.2	50	50	45.8	44.9	91	89	23-115	2	20		
cis-1,2-Dichloroethene	ug/L	33.8	50	50	84.8	80.3	102	93	70-131	6	20		
cis-1,3-Dichloropropene	ug/L	<3.6	50	50	48.9	47.8	98	96	70-130	2	20		
Dibromochloromethane	ug/L	<2.6	50	50	50.0	49.8	100	100	70-130	0	20		
Dichlorodifluoromethane	ug/L	<0.50	50	50	40.6	39.2	81	78	10-132	3	20		
Ethylbenzene	ug/L	<0.22	50	50	50.1	50.7	100	101	80-125	1	20		
Isopropylbenzene (Cumene)	ug/L	<0.39	50	50	51.7	51.2	103	102	70-130	1	20		
m&p-Xylene	ug/L	<0.47	100	100	100	101	100	101	70-130	1	20		
Methyl-tert-butyl ether	ug/L	<1.2	50	50	48.9	47.7	98	95	51-145	2	20		
Methylene Chloride	ug/L	<0.58	50	50	50.9	49.3	102	99	73-140	3	20		
o-Xylene	ug/L	<0.26	50	50	49.2	48.6	98	97	70-130	1	20		
Styrene	ug/L	<0.47	50	50	50.6	49.4	101	99	70-130	2	20		
Tetrachloroethene	ug/L	0.81J	50	50	48.3	48.0	95	94	70-130	1	20		
Toluene	ug/L	<0.17	50	50	49.5	48.7	99	97	80-131	2	20		
trans-1,2-Dichloroethene	ug/L	<1.1	50	50	53.0	50.8	105	101	73-148	4	20		
trans-1,3-Dichloropropene	ug/L	<4.4	50	50	44.7	43.8	89	88	70-130	2	20		
Trichloroethene	ug/L	4.1	50	50	52.7	52.5	97	97	70-130	0	20		
Trichlorofluoromethane	ug/L	<0.21	50	50	54.3	52.4	109	105	74-147	3	20		
Vinyl chloride	ug/L	8.4	50	50	58.7	57.0	101	97	41-129	3	20		
4-Bromofluorobenzene (S)	%						101	102	70-130				
Dibromofluoromethane (S)	%						103	102	70-130				
Toluene-d8 (S)	%						101	101	70-130				

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### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189917

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### 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).

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189917

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40189917001	RW-13	EPA 8260	325333		
40189917002	RW-12	EPA 8260	325333		
40189917003	RW-11	EPA 8260	325333		
40189917004	OP-10	EPA 8260	325333		
40189917005	RW-10	EPA 8260	325333		
40189917006	RW-28	EPA 8260	325333		
40189917007	OP-8	EPA 8260	325333		
40189917008	RW-7	EPA 8260	325333		
40189917009	RW-27	EPA 8260	325333		
40189917010	OP-7	EPA 8260	325333		
40189917011	DUP-5	EPA 8260	325333		
40189917012	TRIP-1	EPA 8260	325333		
40189917013	RW-16	EPA 8260	325333		
40189917014	OP-14	EPA 8260	325333		
40189917015	RW-17	EPA 8260	325333		
40189917016	RW-18	EPA 8260	325333		
40189917017	OP-15	EPA 8260	325333		
40189917018	RW-19	EPA 8260	325333		
40189917019	OP-16	EPA 8260	325333		
40189917020	DUP 4	EPA 8260	325333		

### REPORT OF LABORATORY ANALYSIS

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(Please Print Clearly)

Company Name: **62A Co Environmental**  
 Branch/Location: **Laurens**  
 Project Contact: **Kevin H. Hanger**  
 Phone: **360-434-1761**  
 Project Number: **20.055951.01**  
 Project Name: **Trout Box**  
 Project State: **WI**  
 Sampled By (Print): **Alex Anderson**  
 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 = Soil, C = Charcoal, S = Soil, SI = Sludge, W = Water, DW = Drinking Water, GW = Ground Water, SW = Surface Water, WW = Waste Water, WP = Wipe



# 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

FILTERED? (YES/NO)  
 PRESERVATION CODE: **B**

### Analyses Requested

PAGE LAB #	CLIENT FIELD ID	DATE	TIME	MATRIX	Analyses Requested	
					V/I	Pick Letter
001	RW-13	6/20/19	0921	GV	X	
002	RW-13	1003	6V		X	
003	RW-11	1037	6V		X	
004	OP-10	1124	6V		X	
005	RW-10	1155	6V		X	
006	RW-29	1223	6V		X	
007	Q1-8	1316	6V		X	
008	RW-7	1352	6V		X	
009	RW-27	1424	6V		X	
010	OP-7	1501	6V		X	
011	DUP-5	-	6V		X	
012	TQ-1	V	6V		X	

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)  
 Date Needed:   
 Transmit Prelim Rush Results by (complete what you want):  
 Email #1:   
 Email #2:   
 Telephone:   
 Fax:   
 Samples on HOLD are subject to special pricing and release of liability

Relinquished By: *[Signature]* Date/Time: **6/20/19 1700**  
 Relinquished By: *[Signature]* Date/Time: **6/21/19 1020**  
 Relinquished By: *[Signature]* Date/Time: **6/21/19 1020**  
 Relinquished By: *[Signature]* Date/Time: **6/21/19 1020**

Received By: *[Signature]* Date/Time: **6/21/19 1020**  
 Received By: *[Signature]* Date/Time: **6/21/19 1020**  
 Received By: *[Signature]* Date/Time: **6/21/19 1020**

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

Page 1 of 2  
 40189917

Quote #:   
 Mail To Contact:   
 Mail To Company:   
 Mail To Address:   
 Invoice To Contact:   
 Invoice To Company:   
 Invoice To Address:   
 Invoice To Phone:   
 CLIENT COMMENTS:   
 LAB COMMENTS (Lab Use Only):   
 Profile #

FACE Project No. **40189917**  
 Receipt Temp = **20.0** °C  
 Sample Receipt pH **OK / Adjusted**  
 Present /  Not Present  
 Intact /  Not Intact

(Please Print Clearly)

Company Name: **ETA Environmental**  
 Branch/Location: **Hubbers**  
 Project Contact: **Karin Heiders**  
 Phone: **262-424-1671**  
 Project Number: **20.0155935.01**  
 Project Name: **Trut Tye**  
 Project State: **WI**  
 Sampled By (Print): **Alex Amundson**  
 Sampled By (Sign): *[Signature]*  
 PO #: **Regulatory Program:**



### CHAIN OF CUSTODY

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

PAGE LAB #	CLIENT FIELD ID	DATE	COLLECTION TIME	MATRIX	Analyses Requested	Y/N	Pick Letter	FILTERED? (YES/NO)	PRESERVATION (CODE)*	Relinquished By:	Date/Time:	Received By:	Date/Time:
										Relinquished By:	Date/Time:	Received By:	Date/Time:
013	RW-16	6/20	0938	GW	VOCs	X				<i>[Signature]</i>	7:00	<i>[Signature]</i>	10:20
014	OP-14		1104							<i>[Signature]</i>	6/21/19	<i>[Signature]</i>	10:20
015	RW-17		1204							<i>[Signature]</i>	6/21/19	<i>[Signature]</i>	10:20
016	RW-18		1252							<i>[Signature]</i>	6/21/19	<i>[Signature]</i>	10:20
017	OP-15		1346							<i>[Signature]</i>	6/21/19	<i>[Signature]</i>	10:20
018	RW-19		1433							<i>[Signature]</i>	6/21/19	<i>[Signature]</i>	10:20
019	OP-16		1547							<i>[Signature]</i>	6/21/19	<i>[Signature]</i>	10:20
020	Due 4									<i>[Signature]</i>	6/21/19	<i>[Signature]</i>	10:20

Quote #: **4018417**  
 Mail To Contact: **SAATF**  
 Mail To Company:  
 Mail To Address:  
 Invoice To Contact:  
 Invoice To Company:  
 Invoice To Address:  
 Invoice To Phone:  
 CLIENT COMMENTS  
 LAB COMMENTS (Lab Use Only)  
 Profile #  
 Receipt Temp: **100** °C  
 Sample Receipt pH: **OK/adjusted**  
 Cooler Custody Seal Present / Not Present: **Intact / Not Intact**

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





Document Name: **Sample Condition Upon Receipt (SCUR)**  
Document No.: **F-GB-C-031-Rev.07**

Document Revised: 25Apr2018  
Issuing Authority: **Pace Green Bay Quality Office**

### Sample Condition Upon Receipt Form (SCUR)

Client Name: GZA

Project #: **WO# : 40189917**

Courier:  CS Logistics  Fed Ex  Speedee  UPS  Waltco  
 Client  Pace Other: \_\_\_\_\_

Tracking #: 8148 6939 6199

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: 129 ICorr: \_\_\_\_\_

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

Person examining contents:  
Date: 6/21/19  
Initials: [Signature]

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:	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	8.
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>423</u>		

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

Project Manager Review: [Signature] Date: 6/24/19

July 02, 2019

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

RE: Project: 20.0155935.01 TRENT TUBE  
Pace Project No.: 40189978

Dear Kevin Hedinger:

Enclosed are the analytical results for sample(s) received by the laboratory on June 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

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## CERTIFICATIONS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189978

---

### 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

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: 20.0155935.01 TRENT TUBE  
Pace Project No.: 40189978

Lab ID	Sample ID	Matrix	Date Collected	Date Received
40189978001	RW-20	Water	06/21/19 08:46	06/22/19 09:30
40189978002	RW-21	Water	06/21/19 10:07	06/22/19 09:30
40189978003	OP-1	Water	06/21/19 09:36	06/22/19 09:30
40189978004	RW-01	Water	06/21/19 10:52	06/22/19 09:30
40189978005	OP-2	Water	06/21/19 11:49	06/22/19 09:30
40189978006	RW-22	Water	06/21/19 12:34	06/22/19 09:30
40189978007	RW-2	Water	06/21/19 13:14	06/22/19 09:30
40189978008	RW-23	Water	06/21/19 13:58	06/22/19 09:30
40189978009	RW-3	Water	06/21/19 14:40	06/22/19 09:30
40189978010	OP-3	Water	06/21/19 15:25	06/22/19 09:30
40189978011	RW-26	Water	06/21/19 08:20	06/22/19 09:30
40189978012	MW-6A	Water	06/21/19 08:58	06/22/19 09:30
40189978013	MW-6	Water	06/21/19 09:38	06/22/19 09:30
40189978014	RW-6	Water	06/21/19 10:14	06/22/19 09:30
40189978015	OP-4	Water	06/21/19 10:53	06/22/19 09:30
40189978016	RW-25	Water	06/21/19 11:35	06/22/19 09:30
40189978017	RW-5	Water	06/21/19 12:24	06/22/19 09:30
40189978018	DUP-6	Water	06/21/19 00:00	06/22/19 09:30
40189978019	OP-5	Water	06/21/19 12:55	06/22/19 09:30
40189978020	RW-4	Water	06/21/19 14:02	06/22/19 09:30
40189978021	RW-24	Water	06/21/19 14:45	06/22/19 09:30
40189978022	RW-8	Water	06/21/19 13:27	06/22/19 09:30
40189978023	TRIP	Water	06/21/19 00:00	06/22/19 09:30

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189978

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
40189978001	RW-20	EPA 8260	HNW	64	PASI-G
40189978002	RW-21	EPA 8260	HNW	64	PASI-G
40189978003	OP-1	EPA 8260	HNW	64	PASI-G
40189978004	RW-01	EPA 8260	HNW	64	PASI-G
40189978005	OP-2	EPA 8015B Modified	ALD	2	PASI-G
		EPA 6010	TXW	2	PASI-G
		EPA 8260	HNW	64	PASI-G
		EPA 300.0	HMB	2	PASI-G
		EPA 310.2	DAW	1	PASI-G
40189978006	RW-22	EPA 8260	HNW	64	PASI-G
40189978007	RW-2	EPA 8260	HNW	64	PASI-G
40189978008	RW-23	EPA 8260	HNW	64	PASI-G
40189978009	RW-3	EPA 8260	HNW	64	PASI-G
40189978010	OP-3	EPA 8015B Modified	ALD	2	PASI-G
		EPA 6010	TXW	2	PASI-G
		EPA 8260	HNW	64	PASI-G
		EPA 300.0	HMB	2	PASI-G
		EPA 310.2	DAW	1	PASI-G
		SM 5310C	TJJ	1	PASI-G
40189978011	RW-26	EPA 8260	HNW	64	PASI-G
40189978012	MW-6A	EPA 8260	HNW	64	PASI-G
40189978013	MW-6	EPA 8260	HNW	64	PASI-G
40189978014	RW-6	EPA 8260	HNW	64	PASI-G
40189978015	OP-4	EPA 8260	HNW	64	PASI-G
40189978016	RW-25	EPA 8260	HNW	64	PASI-G
40189978017	RW-5	EPA 8260	HNW	64	PASI-G
40189978018	DUP-6	EPA 8260	HNW	64	PASI-G
40189978019	OP-5	EPA 8260	LAP	64	PASI-G
40189978020	RW-4	EPA 8260	HNW	64	PASI-G
40189978021	RW-24	EPA 8260	HNW	64	PASI-G
40189978022	RW-8	EPA 8260	HNW	64	PASI-G
40189978023	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.: 40189978

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>40189978001</b>	<b>RW-20</b>					
EPA 8260	1,1,1-Trichloroethane	34.1	ug/L	10.0	06/25/19 12:55	
EPA 8260	1,1-Dichloroethane	2.7J	ug/L	10.0	06/25/19 12:55	
EPA 8260	1,1-Dichloroethene	2.8J	ug/L	10.0	06/25/19 12:55	
EPA 8260	Trichloroethene	961	ug/L	10.0	06/25/19 12:55	
EPA 8260	Vinyl chloride	13.2	ug/L	10.0	06/25/19 12:55	
EPA 8260	cis-1,2-Dichloroethene	317	ug/L	10.0	06/25/19 12:55	
<b>40189978002</b>	<b>RW-21</b>					
EPA 8260	1,1,1-Trichloroethane	102	ug/L	5.0	06/26/19 23:19	
EPA 8260	1,1-Dichloroethane	11.8	ug/L	5.0	06/26/19 23:19	
EPA 8260	1,1-Dichloroethene	3.0J	ug/L	5.0	06/26/19 23:19	
EPA 8260	Trichloroethene	369	ug/L	5.0	06/26/19 23:19	
EPA 8260	Vinyl chloride	11.8	ug/L	5.0	06/26/19 23:19	
EPA 8260	cis-1,2-Dichloroethene	436	ug/L	5.0	06/26/19 23:19	
<b>40189978003</b>	<b>OP-1</b>					
EPA 8260	1,1,1-Trichloroethane	166	ug/L	10.0	06/25/19 13:38	
EPA 8260	1,1-Dichloroethane	18.9	ug/L	10.0	06/25/19 13:38	
EPA 8260	1,1-Dichloroethene	4.1J	ug/L	10.0	06/25/19 13:38	
EPA 8260	Trichloroethene	515	ug/L	10.0	06/25/19 13:38	
EPA 8260	cis-1,2-Dichloroethene	201	ug/L	10.0	06/25/19 13:38	
<b>40189978004</b>	<b>RW-01</b>					
EPA 8260	1,1,1-Trichloroethane	142	ug/L	1.0	06/26/19 22:56	
EPA 8260	1,1-Dichloroethane	9.8	ug/L	1.0	06/26/19 22:56	
EPA 8260	1,1-Dichloroethene	2.0	ug/L	1.0	06/26/19 22:56	
EPA 8260	Trichloroethene	39.8	ug/L	1.0	06/26/19 22:56	
EPA 8260	Vinyl chloride	0.63J	ug/L	1.0	06/26/19 22:56	
EPA 8260	cis-1,2-Dichloroethene	52.8	ug/L	1.0	06/26/19 22:56	
<b>40189978005</b>	<b>OP-2</b>					
EPA 8015B Modified	Ethane	1.7J	ug/L	5.6	07/02/19 10:21	
EPA 8015B Modified	Ethene	0.83J	ug/L	5.0	07/02/19 10:21	
EPA 6010	Iron, Dissolved	357	ug/L	118	06/25/19 23:22	
EPA 6010	Manganese, Dissolved	489	ug/L	5.0	06/25/19 23:22	
EPA 8260	1,1,1-Trichloroethane	485	ug/L	2.0	06/25/19 14:21	
EPA 8260	1,1-Dichloroethane	95.2	ug/L	2.0	06/25/19 14:21	
EPA 8260	1,1-Dichloroethene	3.9	ug/L	2.0	06/25/19 14:21	
EPA 8260	Trichloroethene	127	ug/L	2.0	06/25/19 14:21	
EPA 8260	Vinyl chloride	3.7	ug/L	2.0	06/25/19 14:21	
EPA 8260	cis-1,2-Dichloroethene	151	ug/L	2.0	06/25/19 14:21	
EPA 300.0	Sulfate	82.2	mg/L	15.0	06/25/19 02:41	
EPA 310.2	Alkalinity, Total as CaCO3	458	mg/L	47.0	06/27/19 08:31	
<b>40189978006</b>	<b>RW-22</b>					
EPA 8260	1,1,1-Trichloroethane	74.8	ug/L	10.0	06/25/19 14:42	
EPA 8260	1,1-Dichloroethane	19.5	ug/L	10.0	06/25/19 14:42	
EPA 8260	1,1-Dichloroethene	4.7J	ug/L	10.0	06/25/19 14:42	
EPA 8260	Trichloroethene	633	ug/L	10.0	06/25/19 14:42	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189978

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>40189978006</b>	<b>RW-22</b>					
EPA 8260	cis-1,2-Dichloroethene	115	ug/L	10.0	06/25/19 14:42	
<b>40189978007</b>	<b>RW-2</b>					
EPA 8260	1,1,1-Trichloroethane	258	ug/L	10.0	06/25/19 15:04	
EPA 8260	1,1-Dichloroethane	24.0	ug/L	10.0	06/25/19 15:04	
EPA 8260	1,1-Dichloroethene	3.2J	ug/L	10.0	06/25/19 15:04	
EPA 8260	Trichloroethene	404	ug/L	10.0	06/25/19 15:04	
EPA 8260	Vinyl chloride	2.0J	ug/L	10.0	06/25/19 15:04	
EPA 8260	cis-1,2-Dichloroethene	149	ug/L	10.0	06/25/19 15:04	
<b>40189978008</b>	<b>RW-23</b>					
EPA 8260	1,1,1-Trichloroethane	347	ug/L	10.0	06/25/19 15:25	
EPA 8260	1,1-Dichloroethane	23.1	ug/L	10.0	06/25/19 15:25	
EPA 8260	1,1-Dichloroethene	10.4	ug/L	10.0	06/25/19 15:25	
EPA 8260	Trichloroethene	606	ug/L	10.0	06/25/19 15:25	
EPA 8260	cis-1,2-Dichloroethene	179	ug/L	10.0	06/25/19 15:25	
<b>40189978009</b>	<b>RW-3</b>					
EPA 8260	1,1,1-Trichloroethane	217	ug/L	100	06/26/19 23:41	
EPA 8260	1,1-Dichloroethane	42.9J	ug/L	100	06/26/19 23:41	
EPA 8260	Trichloroethene	350	ug/L	100	06/26/19 23:41	
EPA 8260	Vinyl chloride	176	ug/L	100	06/26/19 23:41	
EPA 8260	cis-1,2-Dichloroethene	7800	ug/L	100	06/26/19 23:41	
<b>40189978010</b>	<b>OP-3</b>					
EPA 8015B Modified	Ethane	0.96J	ug/L	5.6	07/02/19 10:28	
EPA 8015B Modified	Ethene	0.66J	ug/L	5.0	07/02/19 10:28	
EPA 6010	Manganese, Dissolved	71.7	ug/L	5.0	06/25/19 23:25	
EPA 8260	1,1,1-Trichloroethane	188	ug/L	1.0	06/25/19 12:34	
EPA 8260	1,1-Dichloroethane	58.5	ug/L	1.0	06/25/19 12:34	
EPA 8260	1,1-Dichloroethene	30.5	ug/L	1.0	06/25/19 12:34	
EPA 8260	Chloroethane	2.8J	ug/L	5.0	06/25/19 12:34	
EPA 8260	Tetrachloroethene	0.54J	ug/L	1.1	06/25/19 12:34	
EPA 8260	Trichloroethene	77.8	ug/L	1.0	06/25/19 12:34	
EPA 8260	Vinyl chloride	4.9	ug/L	1.0	06/25/19 12:34	
EPA 8260	cis-1,2-Dichloroethene	130	ug/L	1.0	06/25/19 12:34	
EPA 8260	trans-1,2-Dichloroethene	1.1J	ug/L	3.6	06/25/19 12:34	
EPA 300.0	Sulfate	38.6	mg/L	3.0	06/24/19 15:14	
EPA 310.2	Alkalinity, Total as CaCO3	371	mg/L	47.0	06/27/19 08:32	
SM 5310C	Total Organic Carbon	2.0	mg/L	0.84	07/01/19 08:04	
<b>40189978011</b>	<b>RW-26</b>					
EPA 8260	Trichloroethene	125	ug/L	10.0	06/27/19 00:04	
EPA 8260	Vinyl chloride	229	ug/L	10.0	06/27/19 00:04	
EPA 8260	cis-1,2-Dichloroethene	1400	ug/L	10.0	06/27/19 00:04	
<b>40189978012</b>	<b>MW-6A</b>					
EPA 8260	Tetrachloroethene	1.6	ug/L	1.1	06/27/19 09:48	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189978

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>40189978013</b>	<b>MW-6</b>					
EPA 8260	1,1-Dichloroethane	2.0J	ug/L	5.0	06/27/19 10:33	
EPA 8260	Trichloroethene	42.5	ug/L	5.0	06/27/19 10:33	
EPA 8260	Vinyl chloride	46.2	ug/L	5.0	06/27/19 10:33	
EPA 8260	cis-1,2-Dichloroethene	458	ug/L	5.0	06/27/19 10:33	
<b>40189978014</b>	<b>RW-6</b>					
EPA 8260	Trichloroethene	118	ug/L	10.0	06/27/19 01:11	
EPA 8260	Vinyl chloride	16.7	ug/L	10.0	06/27/19 01:11	
EPA 8260	cis-1,2-Dichloroethene	407	ug/L	10.0	06/27/19 01:11	
<b>40189978015</b>	<b>OP-4</b>					
EPA 8260	1,1,1-Trichloroethane	186	ug/L	2.0	06/27/19 10:55	
EPA 8260	1,1-Dichloroethane	28.2	ug/L	2.0	06/27/19 10:55	
EPA 8260	1,1-Dichloroethene	14.3	ug/L	2.0	06/27/19 10:55	
EPA 8260	Tetrachloroethene	1.4J	ug/L	2.2	06/27/19 10:55	
EPA 8260	Trichloroethene	175	ug/L	2.0	06/27/19 10:55	
EPA 8260	cis-1,2-Dichloroethene	47.4	ug/L	2.0	06/27/19 10:55	
<b>40189978016</b>	<b>RW-25</b>					
EPA 8260	1,1,1-Trichloroethane	49.9	ug/L	1.0	06/27/19 10:11	
EPA 8260	1,1-Dichloroethane	17.5	ug/L	1.0	06/27/19 10:11	
EPA 8260	1,1-Dichloroethene	3.3	ug/L	1.0	06/27/19 10:11	
EPA 8260	Tetrachloroethene	0.89J	ug/L	1.1	06/27/19 10:11	
EPA 8260	Trichloroethene	30.8	ug/L	1.0	06/27/19 10:11	
EPA 8260	Vinyl chloride	0.68J	ug/L	1.0	06/27/19 10:11	
EPA 8260	cis-1,2-Dichloroethene	59.8	ug/L	1.0	06/27/19 10:11	
<b>40189978017</b>	<b>RW-5</b>					
EPA 8260	1,1,1-Trichloroethane	290	ug/L	10.0	06/27/19 02:19	
EPA 8260	1,1-Dichloroethane	33.8	ug/L	10.0	06/27/19 02:19	
EPA 8260	1,1-Dichloroethene	12.0	ug/L	10.0	06/27/19 02:19	
EPA 8260	Trichloroethene	520	ug/L	10.0	06/27/19 02:19	
EPA 8260	Vinyl chloride	24.3	ug/L	10.0	06/27/19 02:19	
EPA 8260	cis-1,2-Dichloroethene	1600	ug/L	10.0	06/27/19 02:19	
EPA 8260	trans-1,2-Dichloroethene	16.6J	ug/L	36.4	06/27/19 02:19	
<b>40189978018</b>	<b>DUP-6</b>					
EPA 8260	1,1,1-Trichloroethane	139	ug/L	2.0	06/28/19 10:08	
EPA 8260	1,1-Dichloroethane	27.7	ug/L	2.0	06/28/19 10:08	
EPA 8260	1,1-Dichloroethene	6.2	ug/L	2.0	06/28/19 10:08	
EPA 8260	Tetrachloroethene	0.98J	ug/L	2.2	06/28/19 10:08	
EPA 8260	Trichloroethene	130	ug/L	2.0	06/28/19 10:08	
EPA 8260	Vinyl chloride	2.0J	ug/L	2.0	06/28/19 10:08	
EPA 8260	cis-1,2-Dichloroethene	165	ug/L	2.0	06/28/19 10:08	
<b>40189978019</b>	<b>OP-5</b>					
EPA 8260	1,1-Dichloroethane	6.6J	ug/L	10.0	06/27/19 12:40	
EPA 8260	1,1-Dichloroethene	3.7J	ug/L	10.0	06/27/19 12:40	
EPA 8260	Trichloroethene	476	ug/L	10.0	06/27/19 12:40	
EPA 8260	Vinyl chloride	44.8	ug/L	10.0	06/27/19 12:40	

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### SUMMARY OF DETECTION

Project: 20.0155935.01 TRENT TUBE  
Pace Project No.: 40189978

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>40189978019</b>	<b>OP-5</b>					
EPA 8260	cis-1,2-Dichloroethene	607	ug/L	10.0	06/27/19 12:40	
<b>40189978020</b>	<b>RW-4</b>					
EPA 8260	1,1,1-Trichloroethane	164	ug/L	2.0	06/28/19 10:29	
EPA 8260	1,1-Dichloroethane	31.2	ug/L	2.0	06/28/19 10:29	
EPA 8260	1,1-Dichloroethene	7.5	ug/L	2.0	06/28/19 10:29	
EPA 8260	Tetrachloroethene	1.3J	ug/L	2.2	06/28/19 10:29	
EPA 8260	Trichloroethene	143	ug/L	2.0	06/28/19 10:29	
EPA 8260	Vinyl chloride	2.5	ug/L	2.0	06/28/19 10:29	
EPA 8260	cis-1,2-Dichloroethene	174	ug/L	2.0	06/28/19 10:29	
<b>40189978021</b>	<b>RW-24</b>					
EPA 8260	1,1,1-Trichloroethane	426	ug/L	10.0	06/26/19 09:54	
EPA 8260	1,1-Dichloroethane	115	ug/L	1.0	06/25/19 15:38	
EPA 8260	1,1-Dichloroethene	50.8	ug/L	1.0	06/25/19 15:38	
EPA 8260	1,2-Dichloroethane	0.49J	ug/L	1.0	06/25/19 15:38	
EPA 8260	Chloroethane	9.5	ug/L	5.0	06/25/19 15:38	
EPA 8260	Tetrachloroethene	0.97J	ug/L	1.1	06/25/19 15:38	
EPA 8260	Trichloroethene	215	ug/L	1.0	06/25/19 15:38	
EPA 8260	Vinyl chloride	27.6	ug/L	1.0	06/25/19 15:38	
EPA 8260	cis-1,2-Dichloroethene	396	ug/L	10.0	06/26/19 09:54	L1
EPA 8260	trans-1,2-Dichloroethene	3.2J	ug/L	3.6	06/25/19 15:38	
<b>40189978022</b>	<b>RW-8</b>					
EPA 8260	1,1,1-Trichloroethane	126	ug/L	1.0	06/25/19 16:00	
EPA 8260	1,1-Dichloroethane	33.5	ug/L	1.0	06/25/19 16:00	
EPA 8260	1,1-Dichloroethene	4.7	ug/L	1.0	06/25/19 16:00	
EPA 8260	Chloroethane	2.9J	ug/L	5.0	06/25/19 16:00	
EPA 8260	Tetrachloroethene	0.76J	ug/L	1.1	06/25/19 16:00	
EPA 8260	Trichloroethene	16.6	ug/L	1.0	06/25/19 16:00	
EPA 8260	Vinyl chloride	21.5	ug/L	1.0	06/25/19 16:00	
EPA 8260	cis-1,2-Dichloroethene	202	ug/L	1.0	06/25/19 16:00	L1

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189978

**Sample: RW-20**      **Lab ID: 40189978001**      Collected: 06/21/19 08:46      Received: 06/22/19 09:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<2.7	ug/L	10.0	2.7	10		06/25/19 12:55	630-20-6	
1,1,1-Trichloroethane	34.1	ug/L	10.0	2.4	10		06/25/19 12:55	71-55-6	
1,1,2,2-Tetrachloroethane	<2.8	ug/L	10.0	2.8	10		06/25/19 12:55	79-34-5	
1,1,2-Trichloroethane	<5.5	ug/L	50.0	5.5	10		06/25/19 12:55	79-00-5	
1,1-Dichloroethane	2.7J	ug/L	10.0	2.7	10		06/25/19 12:55	75-34-3	
1,1-Dichloroethene	2.8J	ug/L	10.0	2.4	10		06/25/19 12:55	75-35-4	
1,1-Dichloropropene	<5.4	ug/L	18.0	5.4	10		06/25/19 12:55	563-58-6	
1,2,3-Trichlorobenzene	<6.3	ug/L	50.0	6.3	10		06/25/19 12:55	87-61-6	
1,2,3-Trichloropropane	<5.9	ug/L	50.0	5.9	10		06/25/19 12:55	96-18-4	
1,2,4-Trichlorobenzene	<9.5	ug/L	50.0	9.5	10		06/25/19 12:55	120-82-1	
1,2,4-Trimethylbenzene	<8.4	ug/L	28.0	8.4	10		06/25/19 12:55	95-63-6	
1,2-Dibromo-3-chloropropane	<17.6	ug/L	58.8	17.6	10		06/25/19 12:55	96-12-8	
1,2-Dibromoethane (EDB)	<8.3	ug/L	27.6	8.3	10		06/25/19 12:55	106-93-4	
1,2-Dichlorobenzene	<7.1	ug/L	23.5	7.1	10		06/25/19 12:55	95-50-1	
1,2-Dichloroethane	<2.8	ug/L	10.0	2.8	10		06/25/19 12:55	107-06-2	
1,2-Dichloropropane	<2.8	ug/L	10.0	2.8	10		06/25/19 12:55	78-87-5	
1,3,5-Trimethylbenzene	<8.7	ug/L	29.1	8.7	10		06/25/19 12:55	108-67-8	
1,3-Dichlorobenzene	<6.3	ug/L	20.9	6.3	10		06/25/19 12:55	541-73-1	
1,3-Dichloropropane	<8.3	ug/L	27.5	8.3	10		06/25/19 12:55	142-28-9	
1,4-Dichlorobenzene	<9.4	ug/L	31.5	9.4	10		06/25/19 12:55	106-46-7	
2,2-Dichloropropane	<22.7	ug/L	75.5	22.7	10		06/25/19 12:55	594-20-7	
2-Chlorotoluene	<9.3	ug/L	50.0	9.3	10		06/25/19 12:55	95-49-8	
4-Chlorotoluene	<7.6	ug/L	25.2	7.6	10		06/25/19 12:55	106-43-4	
Benzene	<2.5	ug/L	10.0	2.5	10		06/25/19 12:55	71-43-2	
Bromobenzene	<2.4	ug/L	10.0	2.4	10		06/25/19 12:55	108-86-1	
Bromochloromethane	<3.6	ug/L	50.0	3.6	10		06/25/19 12:55	74-97-5	
Bromodichloromethane	<3.6	ug/L	12.1	3.6	10		06/25/19 12:55	75-27-4	
Bromoform	<39.7	ug/L	132	39.7	10		06/25/19 12:55	75-25-2	
Bromomethane	<9.7	ug/L	50.0	9.7	10		06/25/19 12:55	74-83-9	
Carbon tetrachloride	<1.7	ug/L	10.0	1.7	10		06/25/19 12:55	56-23-5	
Chlorobenzene	<7.1	ug/L	23.7	7.1	10		06/25/19 12:55	108-90-7	
Chloroethane	<13.4	ug/L	50.0	13.4	10		06/25/19 12:55	75-00-3	
Chloroform	<12.7	ug/L	50.0	12.7	10		06/25/19 12:55	67-66-3	
Chloromethane	<21.9	ug/L	73.0	21.9	10		06/25/19 12:55	74-87-3	
Dibromochloromethane	<26.0	ug/L	86.7	26.0	10		06/25/19 12:55	124-48-1	
Dibromomethane	<9.4	ug/L	31.2	9.4	10		06/25/19 12:55	74-95-3	
Dichlorodifluoromethane	<5.0	ug/L	50.0	5.0	10		06/25/19 12:55	75-71-8	
Diisopropyl ether	<18.9	ug/L	62.9	18.9	10		06/25/19 12:55	108-20-3	
Ethylbenzene	<2.2	ug/L	10.0	2.2	10		06/25/19 12:55	100-41-4	
Hexachloro-1,3-butadiene	<11.8	ug/L	50.0	11.8	10		06/25/19 12:55	87-68-3	
Isopropylbenzene (Cumene)	<3.9	ug/L	50.0	3.9	10		06/25/19 12:55	98-82-8	
Methyl-tert-butyl ether	<12.5	ug/L	41.5	12.5	10		06/25/19 12:55	1634-04-4	
Methylene Chloride	<5.8	ug/L	50.0	5.8	10		06/25/19 12:55	75-09-2	
Naphthalene	<11.8	ug/L	50.0	11.8	10		06/25/19 12:55	91-20-3	
Styrene	<4.7	ug/L	15.5	4.7	10		06/25/19 12:55	100-42-5	
Tetrachloroethene	<3.3	ug/L	10.9	3.3	10		06/25/19 12:55	127-18-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189978

**Sample: RW-20**      **Lab ID: 40189978001**      Collected: 06/21/19 08:46      Received: 06/22/19 09:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Toluene	<1.7	ug/L	50.0	1.7	10		06/25/19 12:55	108-88-3	
Trichloroethene	961	ug/L	10.0	2.6	10		06/25/19 12:55	79-01-6	
Trichlorofluoromethane	<2.1	ug/L	10.0	2.1	10		06/25/19 12:55	75-69-4	
Vinyl chloride	13.2	ug/L	10.0	1.7	10		06/25/19 12:55	75-01-4	
cis-1,2-Dichloroethene	317	ug/L	10.0	2.7	10		06/25/19 12:55	156-59-2	
cis-1,3-Dichloropropene	<36.3	ug/L	121	36.3	10		06/25/19 12:55	10061-01-5	
m&p-Xylene	<4.7	ug/L	20.0	4.7	10		06/25/19 12:55	179601-23-1	
n-Butylbenzene	<7.1	ug/L	23.6	7.1	10		06/25/19 12:55	104-51-8	
n-Propylbenzene	<8.1	ug/L	50.0	8.1	10		06/25/19 12:55	103-65-1	
o-Xylene	<2.6	ug/L	10.0	2.6	10		06/25/19 12:55	95-47-6	
p-Isopropyltoluene	<8.0	ug/L	26.7	8.0	10		06/25/19 12:55	99-87-6	
sec-Butylbenzene	<8.5	ug/L	50.0	8.5	10		06/25/19 12:55	135-98-8	
tert-Butylbenzene	<3.0	ug/L	10.1	3.0	10		06/25/19 12:55	98-06-6	
trans-1,2-Dichloroethene	<10.9	ug/L	36.4	10.9	10		06/25/19 12:55	156-60-5	
trans-1,3-Dichloropropene	<43.7	ug/L	146	43.7	10		06/25/19 12:55	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96	%	70-130		10		06/25/19 12:55	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		10		06/25/19 12:55	1868-53-7	
Toluene-d8 (S)	101	%	70-130		10		06/25/19 12:55	2037-26-5	

**Sample: RW-21**      **Lab ID: 40189978002**      Collected: 06/21/19 10:07      Received: 06/22/19 09:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<1.3	ug/L	5.0	1.3	5		06/26/19 23:19	630-20-6	
1,1,1-Trichloroethane	102	ug/L	5.0	1.2	5		06/26/19 23:19	71-55-6	
1,1,1,2,2-Tetrachloroethane	<1.4	ug/L	5.0	1.4	5		06/26/19 23:19	79-34-5	
1,1,2-Trichloroethane	<2.8	ug/L	25.0	2.8	5		06/26/19 23:19	79-00-5	
1,1-Dichloroethane	11.8	ug/L	5.0	1.4	5		06/26/19 23:19	75-34-3	
1,1-Dichloroethene	3.0J	ug/L	5.0	1.2	5		06/26/19 23:19	75-35-4	
1,1-Dichloropropene	<2.7	ug/L	9.0	2.7	5		06/26/19 23:19	563-58-6	
1,2,3-Trichlorobenzene	<3.1	ug/L	25.0	3.1	5		06/26/19 23:19	87-61-6	
1,2,3-Trichloropropane	<3.0	ug/L	25.0	3.0	5		06/26/19 23:19	96-18-4	
1,2,4-Trichlorobenzene	<4.8	ug/L	25.0	4.8	5		06/26/19 23:19	120-82-1	
1,2,4-Trimethylbenzene	<4.2	ug/L	14.0	4.2	5		06/26/19 23:19	95-63-6	
1,2-Dibromo-3-chloropropane	<8.8	ug/L	29.4	8.8	5		06/26/19 23:19	96-12-8	
1,2-Dibromoethane (EDB)	<4.1	ug/L	13.8	4.1	5		06/26/19 23:19	106-93-4	
1,2-Dichlorobenzene	<3.5	ug/L	11.8	3.5	5		06/26/19 23:19	95-50-1	
1,2-Dichloroethane	<1.4	ug/L	5.0	1.4	5		06/26/19 23:19	107-06-2	
1,2-Dichloropropane	<1.4	ug/L	5.0	1.4	5		06/26/19 23:19	78-87-5	
1,3,5-Trimethylbenzene	<4.4	ug/L	14.6	4.4	5		06/26/19 23:19	108-67-8	
1,3-Dichlorobenzene	<3.1	ug/L	10.5	3.1	5		06/26/19 23:19	541-73-1	
1,3-Dichloropropane	<4.1	ug/L	13.8	4.1	5		06/26/19 23:19	142-28-9	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189978

Sample: RW-21 Lab ID: 40189978002 Collected: 06/21/19 10:07 Received: 06/22/19 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
1,4-Dichlorobenzene	<4.7	ug/L	15.7	4.7	5		06/26/19 23:19	106-46-7	
2,2-Dichloropropane	<11.3	ug/L	37.8	11.3	5		06/26/19 23:19	594-20-7	
2-Chlorotoluene	<4.6	ug/L	25.0	4.6	5		06/26/19 23:19	95-49-8	
4-Chlorotoluene	<3.8	ug/L	12.6	3.8	5		06/26/19 23:19	106-43-4	
Benzene	<1.2	ug/L	5.0	1.2	5		06/26/19 23:19	71-43-2	
Bromobenzene	<1.2	ug/L	5.0	1.2	5		06/26/19 23:19	108-86-1	
Bromochloromethane	<1.8	ug/L	25.0	1.8	5		06/26/19 23:19	74-97-5	
Bromodichloromethane	<1.8	ug/L	6.1	1.8	5		06/26/19 23:19	75-27-4	
Bromoform	<19.9	ug/L	66.2	19.9	5		06/26/19 23:19	75-25-2	
Bromomethane	<4.9	ug/L	25.0	4.9	5		06/26/19 23:19	74-83-9	
Carbon tetrachloride	<0.83	ug/L	5.0	0.83	5		06/26/19 23:19	56-23-5	
Chlorobenzene	<3.6	ug/L	11.8	3.6	5		06/26/19 23:19	108-90-7	
Chloroethane	<6.7	ug/L	25.0	6.7	5		06/26/19 23:19	75-00-3	
Chloroform	<6.4	ug/L	25.0	6.4	5		06/26/19 23:19	67-66-3	
Chloromethane	<10.9	ug/L	36.5	10.9	5		06/26/19 23:19	74-87-3	
Dibromochloromethane	<13.0	ug/L	43.4	13.0	5		06/26/19 23:19	124-48-1	
Dibromomethane	<4.7	ug/L	15.6	4.7	5		06/26/19 23:19	74-95-3	
Dichlorodifluoromethane	<2.5	ug/L	25.0	2.5	5		06/26/19 23:19	75-71-8	
Diisopropyl ether	<9.4	ug/L	31.5	9.4	5		06/26/19 23:19	108-20-3	
Ethylbenzene	<1.1	ug/L	5.0	1.1	5		06/26/19 23:19	100-41-4	
Hexachloro-1,3-butadiene	<5.9	ug/L	25.0	5.9	5		06/26/19 23:19	87-68-3	
Isopropylbenzene (Cumene)	<2.0	ug/L	25.0	2.0	5		06/26/19 23:19	98-82-8	
Methyl-tert-butyl ether	<6.2	ug/L	20.8	6.2	5		06/26/19 23:19	1634-04-4	
Methylene Chloride	<2.9	ug/L	25.0	2.9	5		06/26/19 23:19	75-09-2	
Naphthalene	<5.9	ug/L	25.0	5.9	5		06/26/19 23:19	91-20-3	
Styrene	<2.3	ug/L	7.8	2.3	5		06/26/19 23:19	100-42-5	
Tetrachloroethene	<1.6	ug/L	5.4	1.6	5		06/26/19 23:19	127-18-4	
Toluene	<0.86	ug/L	25.0	0.86	5		06/26/19 23:19	108-88-3	
Trichloroethene	369	ug/L	5.0	1.3	5		06/26/19 23:19	79-01-6	
Trichlorofluoromethane	<1.1	ug/L	5.0	1.1	5		06/26/19 23:19	75-69-4	
Vinyl chloride	11.8	ug/L	5.0	0.87	5		06/26/19 23:19	75-01-4	
cis-1,2-Dichloroethene	436	ug/L	5.0	1.4	5		06/26/19 23:19	156-59-2	
cis-1,3-Dichloropropene	<18.1	ug/L	60.5	18.1	5		06/26/19 23:19	10061-01-5	
m&p-Xylene	<2.3	ug/L	10.0	2.3	5		06/26/19 23:19	179601-23-1	
n-Butylbenzene	<3.5	ug/L	11.8	3.5	5		06/26/19 23:19	104-51-8	
n-Propylbenzene	<4.1	ug/L	25.0	4.1	5		06/26/19 23:19	103-65-1	
o-Xylene	<1.3	ug/L	5.0	1.3	5		06/26/19 23:19	95-47-6	
p-Isopropyltoluene	<4.0	ug/L	13.3	4.0	5		06/26/19 23:19	99-87-6	
sec-Butylbenzene	<4.2	ug/L	25.0	4.2	5		06/26/19 23:19	135-98-8	
tert-Butylbenzene	<1.5	ug/L	5.1	1.5	5		06/26/19 23:19	98-06-6	
trans-1,2-Dichloroethene	<5.5	ug/L	18.2	5.5	5		06/26/19 23:19	156-60-5	
trans-1,3-Dichloropropene	<21.9	ug/L	72.8	21.9	5		06/26/19 23:19	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		5		06/26/19 23:19	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		5		06/26/19 23:19	1868-53-7	
Toluene-d8 (S)	106	%	70-130		5		06/26/19 23:19	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189978

**Sample: OP-1**      **Lab ID: 40189978003**      Collected: 06/21/19 09:36      Received: 06/22/19 09:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<2.7	ug/L	10.0	2.7	10		06/25/19 13:38	630-20-6	
1,1,1-Trichloroethane	166	ug/L	10.0	2.4	10		06/25/19 13:38	71-55-6	
1,1,2,2-Tetrachloroethane	<2.8	ug/L	10.0	2.8	10		06/25/19 13:38	79-34-5	
1,1,2-Trichloroethane	<5.5	ug/L	50.0	5.5	10		06/25/19 13:38	79-00-5	
1,1-Dichloroethane	18.9	ug/L	10.0	2.7	10		06/25/19 13:38	75-34-3	
1,1-Dichloroethene	4.1J	ug/L	10.0	2.4	10		06/25/19 13:38	75-35-4	
1,1-Dichloropropene	<5.4	ug/L	18.0	5.4	10		06/25/19 13:38	563-58-6	
1,2,3-Trichlorobenzene	<6.3	ug/L	50.0	6.3	10		06/25/19 13:38	87-61-6	
1,2,3-Trichloropropane	<5.9	ug/L	50.0	5.9	10		06/25/19 13:38	96-18-4	
1,2,4-Trichlorobenzene	<9.5	ug/L	50.0	9.5	10		06/25/19 13:38	120-82-1	
1,2,4-Trimethylbenzene	<8.4	ug/L	28.0	8.4	10		06/25/19 13:38	95-63-6	
1,2-Dibromo-3-chloropropane	<17.6	ug/L	58.8	17.6	10		06/25/19 13:38	96-12-8	
1,2-Dibromoethane (EDB)	<8.3	ug/L	27.6	8.3	10		06/25/19 13:38	106-93-4	
1,2-Dichlorobenzene	<7.1	ug/L	23.5	7.1	10		06/25/19 13:38	95-50-1	
1,2-Dichloroethane	<2.8	ug/L	10.0	2.8	10		06/25/19 13:38	107-06-2	
1,2-Dichloropropane	<2.8	ug/L	10.0	2.8	10		06/25/19 13:38	78-87-5	
1,3,5-Trimethylbenzene	<8.7	ug/L	29.1	8.7	10		06/25/19 13:38	108-67-8	
1,3-Dichlorobenzene	<6.3	ug/L	20.9	6.3	10		06/25/19 13:38	541-73-1	
1,3-Dichloropropane	<8.3	ug/L	27.5	8.3	10		06/25/19 13:38	142-28-9	
1,4-Dichlorobenzene	<9.4	ug/L	31.5	9.4	10		06/25/19 13:38	106-46-7	
2,2-Dichloropropane	<22.7	ug/L	75.5	22.7	10		06/25/19 13:38	594-20-7	
2-Chlorotoluene	<9.3	ug/L	50.0	9.3	10		06/25/19 13:38	95-49-8	
4-Chlorotoluene	<7.6	ug/L	25.2	7.6	10		06/25/19 13:38	106-43-4	
Benzene	<2.5	ug/L	10.0	2.5	10		06/25/19 13:38	71-43-2	
Bromobenzene	<2.4	ug/L	10.0	2.4	10		06/25/19 13:38	108-86-1	
Bromochloromethane	<3.6	ug/L	50.0	3.6	10		06/25/19 13:38	74-97-5	
Bromodichloromethane	<3.6	ug/L	12.1	3.6	10		06/25/19 13:38	75-27-4	
Bromoform	<39.7	ug/L	132	39.7	10		06/25/19 13:38	75-25-2	
Bromomethane	<9.7	ug/L	50.0	9.7	10		06/25/19 13:38	74-83-9	
Carbon tetrachloride	<1.7	ug/L	10.0	1.7	10		06/25/19 13:38	56-23-5	
Chlorobenzene	<7.1	ug/L	23.7	7.1	10		06/25/19 13:38	108-90-7	
Chloroethane	<13.4	ug/L	50.0	13.4	10		06/25/19 13:38	75-00-3	
Chloroform	<12.7	ug/L	50.0	12.7	10		06/25/19 13:38	67-66-3	
Chloromethane	<21.9	ug/L	73.0	21.9	10		06/25/19 13:38	74-87-3	
Dibromochloromethane	<26.0	ug/L	86.7	26.0	10		06/25/19 13:38	124-48-1	
Dibromomethane	<9.4	ug/L	31.2	9.4	10		06/25/19 13:38	74-95-3	
Dichlorodifluoromethane	<5.0	ug/L	50.0	5.0	10		06/25/19 13:38	75-71-8	
Diisopropyl ether	<18.9	ug/L	62.9	18.9	10		06/25/19 13:38	108-20-3	
Ethylbenzene	<2.2	ug/L	10.0	2.2	10		06/25/19 13:38	100-41-4	
Hexachloro-1,3-butadiene	<11.8	ug/L	50.0	11.8	10		06/25/19 13:38	87-68-3	
Isopropylbenzene (Cumene)	<3.9	ug/L	50.0	3.9	10		06/25/19 13:38	98-82-8	
Methyl-tert-butyl ether	<12.5	ug/L	41.5	12.5	10		06/25/19 13:38	1634-04-4	
Methylene Chloride	<5.8	ug/L	50.0	5.8	10		06/25/19 13:38	75-09-2	
Naphthalene	<11.8	ug/L	50.0	11.8	10		06/25/19 13:38	91-20-3	
Styrene	<4.7	ug/L	15.5	4.7	10		06/25/19 13:38	100-42-5	
Tetrachloroethene	<3.3	ug/L	10.9	3.3	10		06/25/19 13:38	127-18-4	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189978

**Sample: OP-1**      **Lab ID: 40189978003**      Collected: 06/21/19 09:36      Received: 06/22/19 09:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Toluene	<1.7	ug/L	50.0	1.7	10		06/25/19 13:38	108-88-3	
Trichloroethene	515	ug/L	10.0	2.6	10		06/25/19 13:38	79-01-6	
Trichlorofluoromethane	<2.1	ug/L	10.0	2.1	10		06/25/19 13:38	75-69-4	
Vinyl chloride	<1.7	ug/L	10.0	1.7	10		06/25/19 13:38	75-01-4	
cis-1,2-Dichloroethene	201	ug/L	10.0	2.7	10		06/25/19 13:38	156-59-2	
cis-1,3-Dichloropropene	<36.3	ug/L	121	36.3	10		06/25/19 13:38	10061-01-5	
m&p-Xylene	<4.7	ug/L	20.0	4.7	10		06/25/19 13:38	179601-23-1	
n-Butylbenzene	<7.1	ug/L	23.6	7.1	10		06/25/19 13:38	104-51-8	
n-Propylbenzene	<8.1	ug/L	50.0	8.1	10		06/25/19 13:38	103-65-1	
o-Xylene	<2.6	ug/L	10.0	2.6	10		06/25/19 13:38	95-47-6	
p-Isopropyltoluene	<8.0	ug/L	26.7	8.0	10		06/25/19 13:38	99-87-6	
sec-Butylbenzene	<8.5	ug/L	50.0	8.5	10		06/25/19 13:38	135-98-8	
tert-Butylbenzene	<3.0	ug/L	10.1	3.0	10		06/25/19 13:38	98-06-6	
trans-1,2-Dichloroethene	<10.9	ug/L	36.4	10.9	10		06/25/19 13:38	156-60-5	
trans-1,3-Dichloropropene	<43.7	ug/L	146	43.7	10		06/25/19 13:38	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		10		06/25/19 13:38	460-00-4	
Dibromofluoromethane (S)	103	%	70-130		10		06/25/19 13:38	1868-53-7	
Toluene-d8 (S)	102	%	70-130		10		06/25/19 13:38	2037-26-5	

**Sample: RW-01**      **Lab ID: 40189978004**      Collected: 06/21/19 10:52      Received: 06/22/19 09:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		06/26/19 22:56	630-20-6	
1,1,1-Trichloroethane	142	ug/L	1.0	0.24	1		06/26/19 22:56	71-55-6	
1,1,1,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		06/26/19 22:56	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		06/26/19 22:56	79-00-5	
1,1-Dichloroethane	9.8	ug/L	1.0	0.27	1		06/26/19 22:56	75-34-3	
1,1-Dichloroethene	2.0	ug/L	1.0	0.24	1		06/26/19 22:56	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		06/26/19 22:56	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		06/26/19 22:56	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		06/26/19 22:56	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/26/19 22:56	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		06/26/19 22:56	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		06/26/19 22:56	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		06/26/19 22:56	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		06/26/19 22:56	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		06/26/19 22:56	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		06/26/19 22:56	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		06/26/19 22:56	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		06/26/19 22:56	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		06/26/19 22:56	142-28-9	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189978

Sample: RW-01 Lab ID: 40189978004 Collected: 06/21/19 10:52 Received: 06/22/19 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		06/26/19 22:56	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		06/26/19 22:56	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		06/26/19 22:56	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		06/26/19 22:56	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		06/26/19 22:56	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		06/26/19 22:56	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/26/19 22:56	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		06/26/19 22:56	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		06/26/19 22:56	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		06/26/19 22:56	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		06/26/19 22:56	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		06/26/19 22:56	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		06/26/19 22:56	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		06/26/19 22:56	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		06/26/19 22:56	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		06/26/19 22:56	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		06/26/19 22:56	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		06/26/19 22:56	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		06/26/19 22:56	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		06/26/19 22:56	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		06/26/19 22:56	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		06/26/19 22:56	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		06/26/19 22:56	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		06/26/19 22:56	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		06/26/19 22:56	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		06/26/19 22:56	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		06/26/19 22:56	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		06/26/19 22:56	108-88-3	
Trichloroethene	39.8	ug/L	1.0	0.26	1		06/26/19 22:56	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		06/26/19 22:56	75-69-4	
Vinyl chloride	0.63J	ug/L	1.0	0.17	1		06/26/19 22:56	75-01-4	
cis-1,2-Dichloroethene	52.8	ug/L	1.0	0.27	1		06/26/19 22:56	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		06/26/19 22:56	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		06/26/19 22:56	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		06/26/19 22:56	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		06/26/19 22:56	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		06/26/19 22:56	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		06/26/19 22:56	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		06/26/19 22:56	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		06/26/19 22:56	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		06/26/19 22:56	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		06/26/19 22:56	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		1		06/26/19 22:56	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		1		06/26/19 22:56	1868-53-7	
Toluene-d8 (S)	106	%	70-130		1		06/26/19 22:56	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189978

**Sample: OP-2**      **Lab ID: 40189978005**      Collected: 06/21/19 11:49      Received: 06/22/19 09:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b>		Analytical Method: EPA 8015B Modified							
Ethane	<b>1.7J</b>	ug/L	5.6	0.58	1		07/02/19 10:21	74-84-0	
Ethene	<b>0.83J</b>	ug/L	5.0	0.52	1		07/02/19 10:21	74-85-1	
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010							
Iron, Dissolved	<b>357</b>	ug/L	118	35.4	1		06/25/19 23:22	7439-89-6	
Manganese, Dissolved	<b>489</b>	ug/L	5.0	1.1	1		06/25/19 23:22	7439-96-5	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<b>&lt;0.54</b>	ug/L	2.0	0.54	2		06/25/19 14:21	630-20-6	
1,1,1-Trichloroethane	<b>485</b>	ug/L	2.0	0.49	2		06/25/19 14:21	71-55-6	
1,1,1,2-Tetrachloroethane	<b>&lt;0.55</b>	ug/L	2.0	0.55	2		06/25/19 14:21	79-34-5	
1,1,2-Trichloroethane	<b>&lt;1.1</b>	ug/L	10.0	1.1	2		06/25/19 14:21	79-00-5	
1,1-Dichloroethane	<b>95.2</b>	ug/L	2.0	0.55	2		06/25/19 14:21	75-34-3	
1,1-Dichloroethene	<b>3.9</b>	ug/L	2.0	0.49	2		06/25/19 14:21	75-35-4	
1,1-Dichloropropene	<b>&lt;1.1</b>	ug/L	3.6	1.1	2		06/25/19 14:21	563-58-6	
1,2,3-Trichlorobenzene	<b>&lt;1.3</b>	ug/L	10.0	1.3	2		06/25/19 14:21	87-61-6	
1,2,3-Trichloropropane	<b>&lt;1.2</b>	ug/L	10.0	1.2	2		06/25/19 14:21	96-18-4	
1,2,4-Trichlorobenzene	<b>&lt;1.9</b>	ug/L	10.0	1.9	2		06/25/19 14:21	120-82-1	
1,2,4-Trimethylbenzene	<b>&lt;1.7</b>	ug/L	5.6	1.7	2		06/25/19 14:21	95-63-6	
1,2-Dibromo-3-chloropropane	<b>&lt;3.5</b>	ug/L	11.8	3.5	2		06/25/19 14:21	96-12-8	
1,2-Dibromoethane (EDB)	<b>&lt;1.7</b>	ug/L	5.5	1.7	2		06/25/19 14:21	106-93-4	
1,2-Dichlorobenzene	<b>&lt;1.4</b>	ug/L	4.7	1.4	2		06/25/19 14:21	95-50-1	
1,2-Dichloroethane	<b>&lt;0.56</b>	ug/L	2.0	0.56	2		06/25/19 14:21	107-06-2	
1,2-Dichloropropane	<b>&lt;0.57</b>	ug/L	2.0	0.57	2		06/25/19 14:21	78-87-5	
1,3,5-Trimethylbenzene	<b>&lt;1.7</b>	ug/L	5.8	1.7	2		06/25/19 14:21	108-67-8	
1,3-Dichlorobenzene	<b>&lt;1.3</b>	ug/L	4.2	1.3	2		06/25/19 14:21	541-73-1	
1,3-Dichloropropane	<b>&lt;1.7</b>	ug/L	5.5	1.7	2		06/25/19 14:21	142-28-9	
1,4-Dichlorobenzene	<b>&lt;1.9</b>	ug/L	6.3	1.9	2		06/25/19 14:21	106-46-7	
2,2-Dichloropropane	<b>&lt;4.5</b>	ug/L	15.1	4.5	2		06/25/19 14:21	594-20-7	
2-Chlorotoluene	<b>&lt;1.9</b>	ug/L	10.0	1.9	2		06/25/19 14:21	95-49-8	
4-Chlorotoluene	<b>&lt;1.5</b>	ug/L	5.0	1.5	2		06/25/19 14:21	106-43-4	
Benzene	<b>&lt;0.49</b>	ug/L	2.0	0.49	2		06/25/19 14:21	71-43-2	
Bromobenzene	<b>&lt;0.48</b>	ug/L	2.0	0.48	2		06/25/19 14:21	108-86-1	
Bromochloromethane	<b>&lt;0.72</b>	ug/L	10.0	0.72	2		06/25/19 14:21	74-97-5	
Bromodichloromethane	<b>&lt;0.73</b>	ug/L	2.4	0.73	2		06/25/19 14:21	75-27-4	
Bromoform	<b>&lt;7.9</b>	ug/L	26.5	7.9	2		06/25/19 14:21	75-25-2	
Bromomethane	<b>&lt;1.9</b>	ug/L	10.0	1.9	2		06/25/19 14:21	74-83-9	
Carbon tetrachloride	<b>&lt;0.33</b>	ug/L	2.0	0.33	2		06/25/19 14:21	56-23-5	
Chlorobenzene	<b>&lt;1.4</b>	ug/L	4.7	1.4	2		06/25/19 14:21	108-90-7	
Chloroethane	<b>&lt;2.7</b>	ug/L	10.0	2.7	2		06/25/19 14:21	75-00-3	
Chloroform	<b>&lt;2.5</b>	ug/L	10.0	2.5	2		06/25/19 14:21	67-66-3	
Chloromethane	<b>&lt;4.4</b>	ug/L	14.6	4.4	2		06/25/19 14:21	74-87-3	
Dibromochloromethane	<b>&lt;5.2</b>	ug/L	17.3	5.2	2		06/25/19 14:21	124-48-1	
Dibromomethane	<b>&lt;1.9</b>	ug/L	6.2	1.9	2		06/25/19 14:21	74-95-3	
Dichlorodifluoromethane	<b>&lt;1.0</b>	ug/L	10.0	1.0	2		06/25/19 14:21	75-71-8	
Diisopropyl ether	<b>&lt;3.8</b>	ug/L	12.6	3.8	2		06/25/19 14:21	108-20-3	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189978

Sample: OP-2 Lab ID: 40189978005 Collected: 06/21/19 11:49 Received: 06/22/19 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Ethylbenzene	<0.44	ug/L	2.0	0.44	2		06/25/19 14:21	100-41-4	
Hexachloro-1,3-butadiene	<2.4	ug/L	10.0	2.4	2		06/25/19 14:21	87-68-3	
Isopropylbenzene (Cumene)	<0.79	ug/L	10.0	0.79	2		06/25/19 14:21	98-82-8	
Methyl-tert-butyl ether	<2.5	ug/L	8.3	2.5	2		06/25/19 14:21	1634-04-4	
Methylene Chloride	<1.2	ug/L	10.0	1.2	2		06/25/19 14:21	75-09-2	
Naphthalene	<2.4	ug/L	10.0	2.4	2		06/25/19 14:21	91-20-3	
Styrene	<0.93	ug/L	3.1	0.93	2		06/25/19 14:21	100-42-5	
Tetrachloroethene	<0.65	ug/L	2.2	0.65	2		06/25/19 14:21	127-18-4	
Toluene	<0.34	ug/L	10.0	0.34	2		06/25/19 14:21	108-88-3	
Trichloroethene	127	ug/L	2.0	0.51	2		06/25/19 14:21	79-01-6	
Trichlorofluoromethane	<0.43	ug/L	2.0	0.43	2		06/25/19 14:21	75-69-4	
Vinyl chloride	3.7	ug/L	2.0	0.35	2		06/25/19 14:21	75-01-4	
cis-1,2-Dichloroethene	151	ug/L	2.0	0.54	2		06/25/19 14:21	156-59-2	
cis-1,3-Dichloropropene	<7.3	ug/L	24.2	7.3	2		06/25/19 14:21	10061-01-5	
m&p-Xylene	<0.93	ug/L	4.0	0.93	2		06/25/19 14:21	179601-23-1	
n-Butylbenzene	<1.4	ug/L	4.7	1.4	2		06/25/19 14:21	104-51-8	
n-Propylbenzene	<1.6	ug/L	10.0	1.6	2		06/25/19 14:21	103-65-1	
o-Xylene	<0.52	ug/L	2.0	0.52	2		06/25/19 14:21	95-47-6	
p-Isopropyltoluene	<1.6	ug/L	5.3	1.6	2		06/25/19 14:21	99-87-6	
sec-Butylbenzene	<1.7	ug/L	10.0	1.7	2		06/25/19 14:21	135-98-8	
tert-Butylbenzene	<0.61	ug/L	2.0	0.61	2		06/25/19 14:21	98-06-6	
trans-1,2-Dichloroethene	<2.2	ug/L	7.3	2.2	2		06/25/19 14:21	156-60-5	
trans-1,3-Dichloropropene	<8.7	ug/L	29.1	8.7	2		06/25/19 14:21	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	95	%	70-130		2		06/25/19 14:21	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		2		06/25/19 14:21	1868-53-7	
Toluene-d8 (S)	100	%	70-130		2		06/25/19 14:21	2037-26-5	
<b>300.0 IC Anions</b> Analytical Method: EPA 300.0									
Nitrate as N	<0.38	mg/L	1.1	0.38	5		06/25/19 02:41	14797-55-8	D3,H1
Sulfate	82.2	mg/L	15.0	5.0	5		06/25/19 02:41	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	458	mg/L	47.0	14.1	2		06/27/19 08:31		

Sample: RW-22 Lab ID: 40189978006 Collected: 06/21/19 12:34 Received: 06/22/19 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<2.7	ug/L	10.0	2.7	10		06/25/19 14:42	630-20-6	
1,1,1-Trichloroethane	74.8	ug/L	10.0	2.4	10		06/25/19 14:42	71-55-6	
1,1,2,2-Tetrachloroethane	<2.8	ug/L	10.0	2.8	10		06/25/19 14:42	79-34-5	
1,1,2-Trichloroethane	<5.5	ug/L	50.0	5.5	10		06/25/19 14:42	79-00-5	

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## ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189978

**Sample:** RW-22      **Lab ID:** 40189978006      Collected: 06/21/19 12:34      Received: 06/22/19 09:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1-Dichloroethane	19.5	ug/L	10.0	2.7	10		06/25/19 14:42	75-34-3	
1,1-Dichloroethene	4.7J	ug/L	10.0	2.4	10		06/25/19 14:42	75-35-4	
1,1-Dichloropropene	<5.4	ug/L	18.0	5.4	10		06/25/19 14:42	563-58-6	
1,2,3-Trichlorobenzene	<6.3	ug/L	50.0	6.3	10		06/25/19 14:42	87-61-6	
1,2,3-Trichloropropane	<5.9	ug/L	50.0	5.9	10		06/25/19 14:42	96-18-4	
1,2,4-Trichlorobenzene	<9.5	ug/L	50.0	9.5	10		06/25/19 14:42	120-82-1	
1,2,4-Trimethylbenzene	<8.4	ug/L	28.0	8.4	10		06/25/19 14:42	95-63-6	
1,2-Dibromo-3-chloropropane	<17.6	ug/L	58.8	17.6	10		06/25/19 14:42	96-12-8	
1,2-Dibromoethane (EDB)	<8.3	ug/L	27.6	8.3	10		06/25/19 14:42	106-93-4	
1,2-Dichlorobenzene	<7.1	ug/L	23.5	7.1	10		06/25/19 14:42	95-50-1	
1,2-Dichloroethane	<2.8	ug/L	10.0	2.8	10		06/25/19 14:42	107-06-2	
1,2-Dichloropropane	<2.8	ug/L	10.0	2.8	10		06/25/19 14:42	78-87-5	
1,3,5-Trimethylbenzene	<8.7	ug/L	29.1	8.7	10		06/25/19 14:42	108-67-8	
1,3-Dichlorobenzene	<6.3	ug/L	20.9	6.3	10		06/25/19 14:42	541-73-1	
1,3-Dichloropropane	<8.3	ug/L	27.5	8.3	10		06/25/19 14:42	142-28-9	
1,4-Dichlorobenzene	<9.4	ug/L	31.5	9.4	10		06/25/19 14:42	106-46-7	
2,2-Dichloropropane	<22.7	ug/L	75.5	22.7	10		06/25/19 14:42	594-20-7	
2-Chlorotoluene	<9.3	ug/L	50.0	9.3	10		06/25/19 14:42	95-49-8	
4-Chlorotoluene	<7.6	ug/L	25.2	7.6	10		06/25/19 14:42	106-43-4	
Benzene	<2.5	ug/L	10.0	2.5	10		06/25/19 14:42	71-43-2	
Bromobenzene	<2.4	ug/L	10.0	2.4	10		06/25/19 14:42	108-86-1	
Bromochloromethane	<3.6	ug/L	50.0	3.6	10		06/25/19 14:42	74-97-5	
Bromodichloromethane	<3.6	ug/L	12.1	3.6	10		06/25/19 14:42	75-27-4	
Bromoform	<39.7	ug/L	132	39.7	10		06/25/19 14:42	75-25-2	
Bromomethane	<9.7	ug/L	50.0	9.7	10		06/25/19 14:42	74-83-9	
Carbon tetrachloride	<1.7	ug/L	10.0	1.7	10		06/25/19 14:42	56-23-5	
Chlorobenzene	<7.1	ug/L	23.7	7.1	10		06/25/19 14:42	108-90-7	
Chloroethane	<13.4	ug/L	50.0	13.4	10		06/25/19 14:42	75-00-3	
Chloroform	<12.7	ug/L	50.0	12.7	10		06/25/19 14:42	67-66-3	
Chloromethane	<21.9	ug/L	73.0	21.9	10		06/25/19 14:42	74-87-3	
Dibromochloromethane	<26.0	ug/L	86.7	26.0	10		06/25/19 14:42	124-48-1	
Dibromomethane	<9.4	ug/L	31.2	9.4	10		06/25/19 14:42	74-95-3	
Dichlorodifluoromethane	<5.0	ug/L	50.0	5.0	10		06/25/19 14:42	75-71-8	
Diisopropyl ether	<18.9	ug/L	62.9	18.9	10		06/25/19 14:42	108-20-3	
Ethylbenzene	<2.2	ug/L	10.0	2.2	10		06/25/19 14:42	100-41-4	
Hexachloro-1,3-butadiene	<11.8	ug/L	50.0	11.8	10		06/25/19 14:42	87-68-3	
Isopropylbenzene (Cumene)	<3.9	ug/L	50.0	3.9	10		06/25/19 14:42	98-82-8	
Methyl-tert-butyl ether	<12.5	ug/L	41.5	12.5	10		06/25/19 14:42	1634-04-4	
Methylene Chloride	<5.8	ug/L	50.0	5.8	10		06/25/19 14:42	75-09-2	
Naphthalene	<11.8	ug/L	50.0	11.8	10		06/25/19 14:42	91-20-3	
Styrene	<4.7	ug/L	15.5	4.7	10		06/25/19 14:42	100-42-5	
Tetrachloroethene	<3.3	ug/L	10.9	3.3	10		06/25/19 14:42	127-18-4	
Toluene	<1.7	ug/L	50.0	1.7	10		06/25/19 14:42	108-88-3	
Trichloroethene	633	ug/L	10.0	2.6	10		06/25/19 14:42	79-01-6	
Trichlorofluoromethane	<2.1	ug/L	10.0	2.1	10		06/25/19 14:42	75-69-4	
Vinyl chloride	<1.7	ug/L	10.0	1.7	10		06/25/19 14:42	75-01-4	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189978

**Sample: RW-22**      **Lab ID: 40189978006**      Collected: 06/21/19 12:34      Received: 06/22/19 09:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
cis-1,2-Dichloroethene	115	ug/L	10.0	2.7	10		06/25/19 14:42	156-59-2	
cis-1,3-Dichloropropene	<36.3	ug/L	121	36.3	10		06/25/19 14:42	10061-01-5	
m&p-Xylene	<4.7	ug/L	20.0	4.7	10		06/25/19 14:42	179601-23-1	
n-Butylbenzene	<7.1	ug/L	23.6	7.1	10		06/25/19 14:42	104-51-8	
n-Propylbenzene	<8.1	ug/L	50.0	8.1	10		06/25/19 14:42	103-65-1	
o-Xylene	<2.6	ug/L	10.0	2.6	10		06/25/19 14:42	95-47-6	
p-Isopropyltoluene	<8.0	ug/L	26.7	8.0	10		06/25/19 14:42	99-87-6	
sec-Butylbenzene	<8.5	ug/L	50.0	8.5	10		06/25/19 14:42	135-98-8	
tert-Butylbenzene	<3.0	ug/L	10.1	3.0	10		06/25/19 14:42	98-06-6	
trans-1,2-Dichloroethene	<10.9	ug/L	36.4	10.9	10		06/25/19 14:42	156-60-5	
trans-1,3-Dichloropropene	<43.7	ug/L	146	43.7	10		06/25/19 14:42	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		10		06/25/19 14:42	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		10		06/25/19 14:42	1868-53-7	
Toluene-d8 (S)	102	%	70-130		10		06/25/19 14:42	2037-26-5	

**Sample: RW-2**      **Lab ID: 40189978007**      Collected: 06/21/19 13:14      Received: 06/22/19 09:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<2.7	ug/L	10.0	2.7	10		06/25/19 15:04	630-20-6	
1,1,1-Trichloroethane	258	ug/L	10.0	2.4	10		06/25/19 15:04	71-55-6	
1,1,2,2-Tetrachloroethane	<2.8	ug/L	10.0	2.8	10		06/25/19 15:04	79-34-5	
1,1,2-Trichloroethane	<5.5	ug/L	50.0	5.5	10		06/25/19 15:04	79-00-5	
1,1-Dichloroethane	24.0	ug/L	10.0	2.7	10		06/25/19 15:04	75-34-3	
1,1-Dichloroethene	3.2J	ug/L	10.0	2.4	10		06/25/19 15:04	75-35-4	
1,1-Dichloropropene	<5.4	ug/L	18.0	5.4	10		06/25/19 15:04	563-58-6	
1,2,3-Trichlorobenzene	<6.3	ug/L	50.0	6.3	10		06/25/19 15:04	87-61-6	
1,2,3-Trichloropropane	<5.9	ug/L	50.0	5.9	10		06/25/19 15:04	96-18-4	
1,2,4-Trichlorobenzene	<9.5	ug/L	50.0	9.5	10		06/25/19 15:04	120-82-1	
1,2,4-Trimethylbenzene	<8.4	ug/L	28.0	8.4	10		06/25/19 15:04	95-63-6	
1,2-Dibromo-3-chloropropane	<17.6	ug/L	58.8	17.6	10		06/25/19 15:04	96-12-8	
1,2-Dibromoethane (EDB)	<8.3	ug/L	27.6	8.3	10		06/25/19 15:04	106-93-4	
1,2-Dichlorobenzene	<7.1	ug/L	23.5	7.1	10		06/25/19 15:04	95-50-1	
1,2-Dichloroethane	<2.8	ug/L	10.0	2.8	10		06/25/19 15:04	107-06-2	
1,2-Dichloropropane	<2.8	ug/L	10.0	2.8	10		06/25/19 15:04	78-87-5	
1,3,5-Trimethylbenzene	<8.7	ug/L	29.1	8.7	10		06/25/19 15:04	108-67-8	
1,3-Dichlorobenzene	<6.3	ug/L	20.9	6.3	10		06/25/19 15:04	541-73-1	
1,3-Dichloropropane	<8.3	ug/L	27.5	8.3	10		06/25/19 15:04	142-28-9	
1,4-Dichlorobenzene	<9.4	ug/L	31.5	9.4	10		06/25/19 15:04	106-46-7	
2,2-Dichloropropane	<22.7	ug/L	75.5	22.7	10		06/25/19 15:04	594-20-7	
2-Chlorotoluene	<9.3	ug/L	50.0	9.3	10		06/25/19 15:04	95-49-8	
4-Chlorotoluene	<7.6	ug/L	25.2	7.6	10		06/25/19 15:04	106-43-4	

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## ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189978

**Sample: RW-2**      **Lab ID: 40189978007**      Collected: 06/21/19 13:14      Received: 06/22/19 09:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Benzene	<2.5	ug/L	10.0	2.5	10		06/25/19 15:04	71-43-2	
Bromobenzene	<2.4	ug/L	10.0	2.4	10		06/25/19 15:04	108-86-1	
Bromochloromethane	<3.6	ug/L	50.0	3.6	10		06/25/19 15:04	74-97-5	
Bromodichloromethane	<3.6	ug/L	12.1	3.6	10		06/25/19 15:04	75-27-4	
Bromoform	<39.7	ug/L	132	39.7	10		06/25/19 15:04	75-25-2	
Bromomethane	<9.7	ug/L	50.0	9.7	10		06/25/19 15:04	74-83-9	
Carbon tetrachloride	<1.7	ug/L	10.0	1.7	10		06/25/19 15:04	56-23-5	
Chlorobenzene	<7.1	ug/L	23.7	7.1	10		06/25/19 15:04	108-90-7	
Chloroethane	<13.4	ug/L	50.0	13.4	10		06/25/19 15:04	75-00-3	
Chloroform	<12.7	ug/L	50.0	12.7	10		06/25/19 15:04	67-66-3	
Chloromethane	<21.9	ug/L	73.0	21.9	10		06/25/19 15:04	74-87-3	
Dibromochloromethane	<26.0	ug/L	86.7	26.0	10		06/25/19 15:04	124-48-1	
Dibromomethane	<9.4	ug/L	31.2	9.4	10		06/25/19 15:04	74-95-3	
Dichlorodifluoromethane	<5.0	ug/L	50.0	5.0	10		06/25/19 15:04	75-71-8	
Diisopropyl ether	<18.9	ug/L	62.9	18.9	10		06/25/19 15:04	108-20-3	
Ethylbenzene	<2.2	ug/L	10.0	2.2	10		06/25/19 15:04	100-41-4	
Hexachloro-1,3-butadiene	<11.8	ug/L	50.0	11.8	10		06/25/19 15:04	87-68-3	
Isopropylbenzene (Cumene)	<3.9	ug/L	50.0	3.9	10		06/25/19 15:04	98-82-8	
Methyl-tert-butyl ether	<12.5	ug/L	41.5	12.5	10		06/25/19 15:04	1634-04-4	
Methylene Chloride	<5.8	ug/L	50.0	5.8	10		06/25/19 15:04	75-09-2	
Naphthalene	<11.8	ug/L	50.0	11.8	10		06/25/19 15:04	91-20-3	
Styrene	<4.7	ug/L	15.5	4.7	10		06/25/19 15:04	100-42-5	
Tetrachloroethene	<3.3	ug/L	10.9	3.3	10		06/25/19 15:04	127-18-4	
Toluene	<1.7	ug/L	50.0	1.7	10		06/25/19 15:04	108-88-3	
Trichloroethene	404	ug/L	10.0	2.6	10		06/25/19 15:04	79-01-6	
Trichlorofluoromethane	<2.1	ug/L	10.0	2.1	10		06/25/19 15:04	75-69-4	
Vinyl chloride	2.0J	ug/L	10.0	1.7	10		06/25/19 15:04	75-01-4	
cis-1,2-Dichloroethene	149	ug/L	10.0	2.7	10		06/25/19 15:04	156-59-2	
cis-1,3-Dichloropropene	<36.3	ug/L	121	36.3	10		06/25/19 15:04	10061-01-5	
m&p-Xylene	<4.7	ug/L	20.0	4.7	10		06/25/19 15:04	179601-23-1	
n-Butylbenzene	<7.1	ug/L	23.6	7.1	10		06/25/19 15:04	104-51-8	
n-Propylbenzene	<8.1	ug/L	50.0	8.1	10		06/25/19 15:04	103-65-1	
o-Xylene	<2.6	ug/L	10.0	2.6	10		06/25/19 15:04	95-47-6	
p-Isopropyltoluene	<8.0	ug/L	26.7	8.0	10		06/25/19 15:04	99-87-6	
sec-Butylbenzene	<8.5	ug/L	50.0	8.5	10		06/25/19 15:04	135-98-8	
tert-Butylbenzene	<3.0	ug/L	10.1	3.0	10		06/25/19 15:04	98-06-6	
trans-1,2-Dichloroethene	<10.9	ug/L	36.4	10.9	10		06/25/19 15:04	156-60-5	
trans-1,3-Dichloropropene	<43.7	ug/L	146	43.7	10		06/25/19 15:04	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		10		06/25/19 15:04	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		10		06/25/19 15:04	1868-53-7	
Toluene-d8 (S)	100	%	70-130		10		06/25/19 15:04	2037-26-5	

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## ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189978

**Sample: RW-23**      **Lab ID: 40189978008**      Collected: 06/21/19 13:58      Received: 06/22/19 09:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<2.7	ug/L	10.0	2.7	10		06/25/19 15:25	630-20-6	
1,1,1-Trichloroethane	347	ug/L	10.0	2.4	10		06/25/19 15:25	71-55-6	
1,1,2,2-Tetrachloroethane	<2.8	ug/L	10.0	2.8	10		06/25/19 15:25	79-34-5	
1,1,2-Trichloroethane	<5.5	ug/L	50.0	5.5	10		06/25/19 15:25	79-00-5	
1,1-Dichloroethane	23.1	ug/L	10.0	2.7	10		06/25/19 15:25	75-34-3	
1,1-Dichloroethene	10.4	ug/L	10.0	2.4	10		06/25/19 15:25	75-35-4	
1,1-Dichloropropene	<5.4	ug/L	18.0	5.4	10		06/25/19 15:25	563-58-6	
1,2,3-Trichlorobenzene	<6.3	ug/L	50.0	6.3	10		06/25/19 15:25	87-61-6	
1,2,3-Trichloropropane	<5.9	ug/L	50.0	5.9	10		06/25/19 15:25	96-18-4	
1,2,4-Trichlorobenzene	<9.5	ug/L	50.0	9.5	10		06/25/19 15:25	120-82-1	
1,2,4-Trimethylbenzene	<8.4	ug/L	28.0	8.4	10		06/25/19 15:25	95-63-6	
1,2-Dibromo-3-chloropropane	<17.6	ug/L	58.8	17.6	10		06/25/19 15:25	96-12-8	
1,2-Dibromoethane (EDB)	<8.3	ug/L	27.6	8.3	10		06/25/19 15:25	106-93-4	
1,2-Dichlorobenzene	<7.1	ug/L	23.5	7.1	10		06/25/19 15:25	95-50-1	
1,2-Dichloroethane	<2.8	ug/L	10.0	2.8	10		06/25/19 15:25	107-06-2	
1,2-Dichloropropane	<2.8	ug/L	10.0	2.8	10		06/25/19 15:25	78-87-5	
1,3,5-Trimethylbenzene	<8.7	ug/L	29.1	8.7	10		06/25/19 15:25	108-67-8	
1,3-Dichlorobenzene	<6.3	ug/L	20.9	6.3	10		06/25/19 15:25	541-73-1	
1,3-Dichloropropane	<8.3	ug/L	27.5	8.3	10		06/25/19 15:25	142-28-9	
1,4-Dichlorobenzene	<9.4	ug/L	31.5	9.4	10		06/25/19 15:25	106-46-7	
2,2-Dichloropropane	<22.7	ug/L	75.5	22.7	10		06/25/19 15:25	594-20-7	
2-Chlorotoluene	<9.3	ug/L	50.0	9.3	10		06/25/19 15:25	95-49-8	
4-Chlorotoluene	<7.6	ug/L	25.2	7.6	10		06/25/19 15:25	106-43-4	
Benzene	<2.5	ug/L	10.0	2.5	10		06/25/19 15:25	71-43-2	
Bromobenzene	<2.4	ug/L	10.0	2.4	10		06/25/19 15:25	108-86-1	
Bromochloromethane	<3.6	ug/L	50.0	3.6	10		06/25/19 15:25	74-97-5	
Bromodichloromethane	<3.6	ug/L	12.1	3.6	10		06/25/19 15:25	75-27-4	
Bromoform	<39.7	ug/L	132	39.7	10		06/25/19 15:25	75-25-2	
Bromomethane	<9.7	ug/L	50.0	9.7	10		06/25/19 15:25	74-83-9	
Carbon tetrachloride	<1.7	ug/L	10.0	1.7	10		06/25/19 15:25	56-23-5	
Chlorobenzene	<7.1	ug/L	23.7	7.1	10		06/25/19 15:25	108-90-7	
Chloroethane	<13.4	ug/L	50.0	13.4	10		06/25/19 15:25	75-00-3	
Chloroform	<12.7	ug/L	50.0	12.7	10		06/25/19 15:25	67-66-3	
Chloromethane	<21.9	ug/L	73.0	21.9	10		06/25/19 15:25	74-87-3	
Dibromochloromethane	<26.0	ug/L	86.7	26.0	10		06/25/19 15:25	124-48-1	
Dibromomethane	<9.4	ug/L	31.2	9.4	10		06/25/19 15:25	74-95-3	
Dichlorodifluoromethane	<5.0	ug/L	50.0	5.0	10		06/25/19 15:25	75-71-8	
Diisopropyl ether	<18.9	ug/L	62.9	18.9	10		06/25/19 15:25	108-20-3	
Ethylbenzene	<2.2	ug/L	10.0	2.2	10		06/25/19 15:25	100-41-4	
Hexachloro-1,3-butadiene	<11.8	ug/L	50.0	11.8	10		06/25/19 15:25	87-68-3	
Isopropylbenzene (Cumene)	<3.9	ug/L	50.0	3.9	10		06/25/19 15:25	98-82-8	
Methyl-tert-butyl ether	<12.5	ug/L	41.5	12.5	10		06/25/19 15:25	1634-04-4	
Methylene Chloride	<5.8	ug/L	50.0	5.8	10		06/25/19 15:25	75-09-2	
Naphthalene	<11.8	ug/L	50.0	11.8	10		06/25/19 15:25	91-20-3	
Styrene	<4.7	ug/L	15.5	4.7	10		06/25/19 15:25	100-42-5	
Tetrachloroethene	<3.3	ug/L	10.9	3.3	10		06/25/19 15:25	127-18-4	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189978

**Sample: RW-23**      **Lab ID: 40189978008**      Collected: 06/21/19 13:58      Received: 06/22/19 09:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Toluene	<1.7	ug/L	50.0	1.7	10		06/25/19 15:25	108-88-3	
Trichloroethene	606	ug/L	10.0	2.6	10		06/25/19 15:25	79-01-6	
Trichlorofluoromethane	<2.1	ug/L	10.0	2.1	10		06/25/19 15:25	75-69-4	
Vinyl chloride	<1.7	ug/L	10.0	1.7	10		06/25/19 15:25	75-01-4	
cis-1,2-Dichloroethene	179	ug/L	10.0	2.7	10		06/25/19 15:25	156-59-2	
cis-1,3-Dichloropropene	<36.3	ug/L	121	36.3	10		06/25/19 15:25	10061-01-5	
m&p-Xylene	<4.7	ug/L	20.0	4.7	10		06/25/19 15:25	179601-23-1	
n-Butylbenzene	<7.1	ug/L	23.6	7.1	10		06/25/19 15:25	104-51-8	
n-Propylbenzene	<8.1	ug/L	50.0	8.1	10		06/25/19 15:25	103-65-1	
o-Xylene	<2.6	ug/L	10.0	2.6	10		06/25/19 15:25	95-47-6	
p-Isopropyltoluene	<8.0	ug/L	26.7	8.0	10		06/25/19 15:25	99-87-6	
sec-Butylbenzene	<8.5	ug/L	50.0	8.5	10		06/25/19 15:25	135-98-8	
tert-Butylbenzene	<3.0	ug/L	10.1	3.0	10		06/25/19 15:25	98-06-6	
trans-1,2-Dichloroethene	<10.9	ug/L	36.4	10.9	10		06/25/19 15:25	156-60-5	
trans-1,3-Dichloropropene	<43.7	ug/L	146	43.7	10		06/25/19 15:25	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		10		06/25/19 15:25	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		10		06/25/19 15:25	1868-53-7	
Toluene-d8 (S)	99	%	70-130		10		06/25/19 15:25	2037-26-5	

**Sample: RW-3**      **Lab ID: 40189978009**      Collected: 06/21/19 14:40      Received: 06/22/19 09:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<26.9	ug/L	100	26.9	100		06/26/19 23:41	630-20-6	
1,1,1-Trichloroethane	217	ug/L	100	24.5	100		06/26/19 23:41	71-55-6	
1,1,1,2,2-Tetrachloroethane	<27.5	ug/L	100	27.5	100		06/26/19 23:41	79-34-5	
1,1,2-Trichloroethane	<55.2	ug/L	500	55.2	100		06/26/19 23:41	79-00-5	
1,1-Dichloroethane	42.9J	ug/L	100	27.3	100		06/26/19 23:41	75-34-3	
1,1-Dichloroethene	<24.5	ug/L	100	24.5	100		06/26/19 23:41	75-35-4	
1,1-Dichloropropene	<54.0	ug/L	180	54.0	100		06/26/19 23:41	563-58-6	
1,2,3-Trichlorobenzene	<62.6	ug/L	500	62.6	100		06/26/19 23:41	87-61-6	
1,2,3-Trichloropropane	<59.1	ug/L	500	59.1	100		06/26/19 23:41	96-18-4	
1,2,4-Trichlorobenzene	<95.1	ug/L	500	95.1	100		06/26/19 23:41	120-82-1	
1,2,4-Trimethylbenzene	<84.1	ug/L	280	84.1	100		06/26/19 23:41	95-63-6	
1,2-Dibromo-3-chloropropane	<176	ug/L	588	176	100		06/26/19 23:41	96-12-8	
1,2-Dibromoethane (EDB)	<82.9	ug/L	276	82.9	100		06/26/19 23:41	106-93-4	
1,2-Dichlorobenzene	<70.5	ug/L	235	70.5	100		06/26/19 23:41	95-50-1	
1,2-Dichloroethane	<28.0	ug/L	100	28.0	100		06/26/19 23:41	107-06-2	
1,2-Dichloropropane	<28.3	ug/L	100	28.3	100		06/26/19 23:41	78-87-5	
1,3,5-Trimethylbenzene	<87.3	ug/L	291	87.3	100		06/26/19 23:41	108-67-8	
1,3-Dichlorobenzene	<62.8	ug/L	209	62.8	100		06/26/19 23:41	541-73-1	
1,3-Dichloropropane	<82.6	ug/L	275	82.6	100		06/26/19 23:41	142-28-9	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189978

**Sample: RW-3**      **Lab ID: 40189978009**      Collected: 06/21/19 14:40      Received: 06/22/19 09:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,4-Dichlorobenzene	<94.4	ug/L	315	94.4	100		06/26/19 23:41	106-46-7	
2,2-Dichloropropane	<227	ug/L	755	227	100		06/26/19 23:41	594-20-7	
2-Chlorotoluene	<92.6	ug/L	500	92.6	100		06/26/19 23:41	95-49-8	
4-Chlorotoluene	<75.6	ug/L	252	75.6	100		06/26/19 23:41	106-43-4	
Benzene	<24.6	ug/L	100	24.6	100		06/26/19 23:41	71-43-2	
Bromobenzene	<24.1	ug/L	100	24.1	100		06/26/19 23:41	108-86-1	
Bromochloromethane	<36.2	ug/L	500	36.2	100		06/26/19 23:41	74-97-5	
Bromodichloromethane	<36.4	ug/L	121	36.4	100		06/26/19 23:41	75-27-4	
Bromoform	<397	ug/L	1320	397	100		06/26/19 23:41	75-25-2	
Bromomethane	<97.1	ug/L	500	97.1	100		06/26/19 23:41	74-83-9	
Carbon tetrachloride	<16.6	ug/L	100	16.6	100		06/26/19 23:41	56-23-5	
Chlorobenzene	<71.1	ug/L	237	71.1	100		06/26/19 23:41	108-90-7	
Chloroethane	<134	ug/L	500	134	100		06/26/19 23:41	75-00-3	
Chloroform	<127	ug/L	500	127	100		06/26/19 23:41	67-66-3	
Chloromethane	<219	ug/L	730	219	100		06/26/19 23:41	74-87-3	
Dibromochloromethane	<260	ug/L	867	260	100		06/26/19 23:41	124-48-1	
Dibromomethane	<93.7	ug/L	312	93.7	100		06/26/19 23:41	74-95-3	
Dichlorodifluoromethane	<50.0	ug/L	500	50.0	100		06/26/19 23:41	75-71-8	
Diisopropyl ether	<189	ug/L	629	189	100		06/26/19 23:41	108-20-3	
Ethylbenzene	<21.8	ug/L	100	21.8	100		06/26/19 23:41	100-41-4	
Hexachloro-1,3-butadiene	<118	ug/L	500	118	100		06/26/19 23:41	87-68-3	
Isopropylbenzene (Cumene)	<39.3	ug/L	500	39.3	100		06/26/19 23:41	98-82-8	
Methyl-tert-butyl ether	<125	ug/L	415	125	100		06/26/19 23:41	1634-04-4	
Methylene Chloride	<58.1	ug/L	500	58.1	100		06/26/19 23:41	75-09-2	
Naphthalene	<118	ug/L	500	118	100		06/26/19 23:41	91-20-3	
Styrene	<46.5	ug/L	155	46.5	100		06/26/19 23:41	100-42-5	
Tetrachloroethene	<32.6	ug/L	109	32.6	100		06/26/19 23:41	127-18-4	
Toluene	<17.2	ug/L	500	17.2	100		06/26/19 23:41	108-88-3	
Trichloroethene	350	ug/L	100	25.5	100		06/26/19 23:41	79-01-6	
Trichlorofluoromethane	<21.5	ug/L	100	21.5	100		06/26/19 23:41	75-69-4	
Vinyl chloride	176	ug/L	100	17.5	100		06/26/19 23:41	75-01-4	
cis-1,2-Dichloroethene	7800	ug/L	100	27.1	100		06/26/19 23:41	156-59-2	
cis-1,3-Dichloropropene	<363	ug/L	1210	363	100		06/26/19 23:41	10061-01-5	
m&p-Xylene	<46.5	ug/L	200	46.5	100		06/26/19 23:41	179601-23-1	
n-Butylbenzene	<70.8	ug/L	236	70.8	100		06/26/19 23:41	104-51-8	
n-Propylbenzene	<81.1	ug/L	500	81.1	100		06/26/19 23:41	103-65-1	
o-Xylene	<26.2	ug/L	100	26.2	100		06/26/19 23:41	95-47-6	
p-Isopropyltoluene	<80.0	ug/L	267	80.0	100		06/26/19 23:41	99-87-6	
sec-Butylbenzene	<84.9	ug/L	500	84.9	100		06/26/19 23:41	135-98-8	
tert-Butylbenzene	<30.4	ug/L	101	30.4	100		06/26/19 23:41	98-06-6	
trans-1,2-Dichloroethene	<109	ug/L	364	109	100		06/26/19 23:41	156-60-5	
trans-1,3-Dichloropropene	<437	ug/L	1460	437	100		06/26/19 23:41	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		100		06/26/19 23:41	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		100		06/26/19 23:41	1868-53-7	
Toluene-d8 (S)	107	%	70-130		100		06/26/19 23:41	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189978

**Sample: OP-3**      **Lab ID: 40189978010**      Collected: 06/21/19 15:25      Received: 06/22/19 09:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>Methane, Ethane, Ethene GCV</b>		Analytical Method: EPA 8015B Modified							
Ethane	<b>0.96J</b>	ug/L	5.6	0.58	1		07/02/19 10:28	74-84-0	
Ethene	<b>0.66J</b>	ug/L	5.0	0.52	1		07/02/19 10:28	74-85-1	
<b>6010 MET ICP, Dissolved</b>		Analytical Method: EPA 6010							
Iron, Dissolved	<b>&lt;35.4</b>	ug/L	118	35.4	1		06/25/19 23:25	7439-89-6	
Manganese, Dissolved	<b>71.7</b>	ug/L	5.0	1.1	1		06/25/19 23:25	7439-96-5	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<b>&lt;0.27</b>	ug/L	1.0	0.27	1		06/25/19 12:34	630-20-6	
1,1,1-Trichloroethane	<b>188</b>	ug/L	1.0	0.24	1		06/25/19 12:34	71-55-6	
1,1,2,2-Tetrachloroethane	<b>&lt;0.28</b>	ug/L	1.0	0.28	1		06/25/19 12:34	79-34-5	
1,1,2-Trichloroethane	<b>&lt;0.55</b>	ug/L	5.0	0.55	1		06/25/19 12:34	79-00-5	
1,1-Dichloroethane	<b>58.5</b>	ug/L	1.0	0.27	1		06/25/19 12:34	75-34-3	
1,1-Dichloroethene	<b>30.5</b>	ug/L	1.0	0.24	1		06/25/19 12:34	75-35-4	
1,1-Dichloropropene	<b>&lt;0.54</b>	ug/L	1.8	0.54	1		06/25/19 12:34	563-58-6	
1,2,3-Trichlorobenzene	<b>&lt;0.63</b>	ug/L	5.0	0.63	1		06/25/19 12:34	87-61-6	
1,2,3-Trichloropropane	<b>&lt;0.59</b>	ug/L	5.0	0.59	1		06/25/19 12:34	96-18-4	
1,2,4-Trichlorobenzene	<b>&lt;0.95</b>	ug/L	5.0	0.95	1		06/25/19 12:34	120-82-1	
1,2,4-Trimethylbenzene	<b>&lt;0.84</b>	ug/L	2.8	0.84	1		06/25/19 12:34	95-63-6	
1,2-Dibromo-3-chloropropane	<b>&lt;1.8</b>	ug/L	5.9	1.8	1		06/25/19 12:34	96-12-8	
1,2-Dibromoethane (EDB)	<b>&lt;0.83</b>	ug/L	2.8	0.83	1		06/25/19 12:34	106-93-4	
1,2-Dichlorobenzene	<b>&lt;0.71</b>	ug/L	2.4	0.71	1		06/25/19 12:34	95-50-1	
1,2-Dichloroethane	<b>&lt;0.28</b>	ug/L	1.0	0.28	1		06/25/19 12:34	107-06-2	
1,2-Dichloropropane	<b>&lt;0.28</b>	ug/L	1.0	0.28	1		06/25/19 12:34	78-87-5	
1,3,5-Trimethylbenzene	<b>&lt;0.87</b>	ug/L	2.9	0.87	1		06/25/19 12:34	108-67-8	
1,3-Dichlorobenzene	<b>&lt;0.63</b>	ug/L	2.1	0.63	1		06/25/19 12:34	541-73-1	
1,3-Dichloropropane	<b>&lt;0.83</b>	ug/L	2.8	0.83	1		06/25/19 12:34	142-28-9	
1,4-Dichlorobenzene	<b>&lt;0.94</b>	ug/L	3.1	0.94	1		06/25/19 12:34	106-46-7	
2,2-Dichloropropane	<b>&lt;2.3</b>	ug/L	7.6	2.3	1		06/25/19 12:34	594-20-7	
2-Chlorotoluene	<b>&lt;0.93</b>	ug/L	5.0	0.93	1		06/25/19 12:34	95-49-8	
4-Chlorotoluene	<b>&lt;0.76</b>	ug/L	2.5	0.76	1		06/25/19 12:34	106-43-4	
Benzene	<b>&lt;0.25</b>	ug/L	1.0	0.25	1		06/25/19 12:34	71-43-2	
Bromobenzene	<b>&lt;0.24</b>	ug/L	1.0	0.24	1		06/25/19 12:34	108-86-1	
Bromochloromethane	<b>&lt;0.36</b>	ug/L	5.0	0.36	1		06/25/19 12:34	74-97-5	
Bromodichloromethane	<b>&lt;0.36</b>	ug/L	1.2	0.36	1		06/25/19 12:34	75-27-4	
Bromoform	<b>&lt;4.0</b>	ug/L	13.2	4.0	1		06/25/19 12:34	75-25-2	
Bromomethane	<b>&lt;0.97</b>	ug/L	5.0	0.97	1		06/25/19 12:34	74-83-9	
Carbon tetrachloride	<b>&lt;0.17</b>	ug/L	1.0	0.17	1		06/25/19 12:34	56-23-5	
Chlorobenzene	<b>&lt;0.71</b>	ug/L	2.4	0.71	1		06/25/19 12:34	108-90-7	
Chloroethane	<b>2.8J</b>	ug/L	5.0	1.3	1		06/25/19 12:34	75-00-3	
Chloroform	<b>&lt;1.3</b>	ug/L	5.0	1.3	1		06/25/19 12:34	67-66-3	
Chloromethane	<b>&lt;2.2</b>	ug/L	7.3	2.2	1		06/25/19 12:34	74-87-3	
Dibromochloromethane	<b>&lt;2.6</b>	ug/L	8.7	2.6	1		06/25/19 12:34	124-48-1	
Dibromomethane	<b>&lt;0.94</b>	ug/L	3.1	0.94	1		06/25/19 12:34	74-95-3	
Dichlorodifluoromethane	<b>&lt;0.50</b>	ug/L	5.0	0.50	1		06/25/19 12:34	75-71-8	
Diisopropyl ether	<b>&lt;1.9</b>	ug/L	6.3	1.9	1		06/25/19 12:34	108-20-3	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189978

**Sample: OP-3**      **Lab ID: 40189978010**      Collected: 06/21/19 15:25      Received: 06/22/19 09:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		06/25/19 12:34	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		06/25/19 12:34	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		06/25/19 12:34	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		06/25/19 12:34	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		06/25/19 12:34	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		06/25/19 12:34	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		06/25/19 12:34	100-42-5	
Tetrachloroethene	0.54J	ug/L	1.1	0.33	1		06/25/19 12:34	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		06/25/19 12:34	108-88-3	
Trichloroethene	77.8	ug/L	1.0	0.26	1		06/25/19 12:34	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		06/25/19 12:34	75-69-4	
Vinyl chloride	4.9	ug/L	1.0	0.17	1		06/25/19 12:34	75-01-4	
cis-1,2-Dichloroethene	130	ug/L	1.0	0.27	1		06/25/19 12:34	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		06/25/19 12:34	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		06/25/19 12:34	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		06/25/19 12:34	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		06/25/19 12:34	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		06/25/19 12:34	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		06/25/19 12:34	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		06/25/19 12:34	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		06/25/19 12:34	98-06-6	
trans-1,2-Dichloroethene	1.1J	ug/L	3.6	1.1	1		06/25/19 12:34	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		06/25/19 12:34	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	95	%	70-130		1		06/25/19 12:34	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		06/25/19 12:34	1868-53-7	
Toluene-d8 (S)	101	%	70-130		1		06/25/19 12:34	2037-26-5	
<b>300.0 IC Anions</b> Analytical Method: EPA 300.0									
Nitrate as N	<0.075	mg/L	0.22	0.075	1		06/24/19 15:14	14797-55-8	H1
Sulfate	38.6	mg/L	3.0	1.0	1		06/24/19 15:14	14808-79-8	
<b>310.2 Alkalinity</b> Analytical Method: EPA 310.2									
Alkalinity, Total as CaCO3	371	mg/L	47.0	14.1	2		06/27/19 08:32		
<b>5310C TOC</b> Analytical Method: SM 5310C									
Total Organic Carbon	2.0	mg/L	0.84	0.25	1		07/01/19 08:04	7440-44-0	

**Sample: RW-26**      **Lab ID: 40189978011**      Collected: 06/21/19 08:20      Received: 06/22/19 09:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<2.7	ug/L	10.0	2.7	10		06/27/19 00:04	630-20-6	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189978

**Sample:** RW-26      **Lab ID:** 40189978011      Collected: 06/21/19 08:20      Received: 06/22/19 09:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1-Trichloroethane	<2.4	ug/L	10.0	2.4	10		06/27/19 00:04	71-55-6	
1,1,2,2-Tetrachloroethane	<2.8	ug/L	10.0	2.8	10		06/27/19 00:04	79-34-5	
1,1,2-Trichloroethane	<5.5	ug/L	50.0	5.5	10		06/27/19 00:04	79-00-5	
1,1-Dichloroethane	<2.7	ug/L	10.0	2.7	10		06/27/19 00:04	75-34-3	
1,1-Dichloroethene	<2.4	ug/L	10.0	2.4	10		06/27/19 00:04	75-35-4	
1,1-Dichloropropene	<5.4	ug/L	18.0	5.4	10		06/27/19 00:04	563-58-6	
1,2,3-Trichlorobenzene	<6.3	ug/L	50.0	6.3	10		06/27/19 00:04	87-61-6	
1,2,3-Trichloropropane	<5.9	ug/L	50.0	5.9	10		06/27/19 00:04	96-18-4	
1,2,4-Trichlorobenzene	<9.5	ug/L	50.0	9.5	10		06/27/19 00:04	120-82-1	
1,2,4-Trimethylbenzene	<8.4	ug/L	28.0	8.4	10		06/27/19 00:04	95-63-6	
1,2-Dibromo-3-chloropropane	<17.6	ug/L	58.8	17.6	10		06/27/19 00:04	96-12-8	
1,2-Dibromoethane (EDB)	<8.3	ug/L	27.6	8.3	10		06/27/19 00:04	106-93-4	
1,2-Dichlorobenzene	<7.1	ug/L	23.5	7.1	10		06/27/19 00:04	95-50-1	
1,2-Dichloroethane	<2.8	ug/L	10.0	2.8	10		06/27/19 00:04	107-06-2	
1,2-Dichloropropane	<2.8	ug/L	10.0	2.8	10		06/27/19 00:04	78-87-5	
1,3,5-Trimethylbenzene	<8.7	ug/L	29.1	8.7	10		06/27/19 00:04	108-67-8	
1,3-Dichlorobenzene	<6.3	ug/L	20.9	6.3	10		06/27/19 00:04	541-73-1	
1,3-Dichloropropane	<8.3	ug/L	27.5	8.3	10		06/27/19 00:04	142-28-9	
1,4-Dichlorobenzene	<9.4	ug/L	31.5	9.4	10		06/27/19 00:04	106-46-7	
2,2-Dichloropropane	<22.7	ug/L	75.5	22.7	10		06/27/19 00:04	594-20-7	
2-Chlorotoluene	<9.3	ug/L	50.0	9.3	10		06/27/19 00:04	95-49-8	
4-Chlorotoluene	<7.6	ug/L	25.2	7.6	10		06/27/19 00:04	106-43-4	
Benzene	<2.5	ug/L	10.0	2.5	10		06/27/19 00:04	71-43-2	
Bromobenzene	<2.4	ug/L	10.0	2.4	10		06/27/19 00:04	108-86-1	
Bromochloromethane	<3.6	ug/L	50.0	3.6	10		06/27/19 00:04	74-97-5	
Bromodichloromethane	<3.6	ug/L	12.1	3.6	10		06/27/19 00:04	75-27-4	
Bromoform	<39.7	ug/L	132	39.7	10		06/27/19 00:04	75-25-2	
Bromomethane	<9.7	ug/L	50.0	9.7	10		06/27/19 00:04	74-83-9	
Carbon tetrachloride	<1.7	ug/L	10.0	1.7	10		06/27/19 00:04	56-23-5	
Chlorobenzene	<7.1	ug/L	23.7	7.1	10		06/27/19 00:04	108-90-7	
Chloroethane	<13.4	ug/L	50.0	13.4	10		06/27/19 00:04	75-00-3	
Chloroform	<12.7	ug/L	50.0	12.7	10		06/27/19 00:04	67-66-3	
Chloromethane	<21.9	ug/L	73.0	21.9	10		06/27/19 00:04	74-87-3	
Dibromochloromethane	<26.0	ug/L	86.7	26.0	10		06/27/19 00:04	124-48-1	
Dibromomethane	<9.4	ug/L	31.2	9.4	10		06/27/19 00:04	74-95-3	
Dichlorodifluoromethane	<5.0	ug/L	50.0	5.0	10		06/27/19 00:04	75-71-8	
Diisopropyl ether	<18.9	ug/L	62.9	18.9	10		06/27/19 00:04	108-20-3	
Ethylbenzene	<2.2	ug/L	10.0	2.2	10		06/27/19 00:04	100-41-4	
Hexachloro-1,3-butadiene	<11.8	ug/L	50.0	11.8	10		06/27/19 00:04	87-68-3	
Isopropylbenzene (Cumene)	<3.9	ug/L	50.0	3.9	10		06/27/19 00:04	98-82-8	
Methyl-tert-butyl ether	<12.5	ug/L	41.5	12.5	10		06/27/19 00:04	1634-04-4	
Methylene Chloride	<5.8	ug/L	50.0	5.8	10		06/27/19 00:04	75-09-2	
Naphthalene	<11.8	ug/L	50.0	11.8	10		06/27/19 00:04	91-20-3	
Styrene	<4.7	ug/L	15.5	4.7	10		06/27/19 00:04	100-42-5	
Tetrachloroethene	<3.3	ug/L	10.9	3.3	10		06/27/19 00:04	127-18-4	
Toluene	<1.7	ug/L	50.0	1.7	10		06/27/19 00:04	108-88-3	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189978

Sample: **RW-26** Lab ID: **40189978011** Collected: 06/21/19 08:20 Received: 06/22/19 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Trichloroethene	125	ug/L	10.0	2.6	10		06/27/19 00:04	79-01-6	
Trichlorofluoromethane	<2.1	ug/L	10.0	2.1	10		06/27/19 00:04	75-69-4	
Vinyl chloride	229	ug/L	10.0	1.7	10		06/27/19 00:04	75-01-4	
cis-1,2-Dichloroethene	1400	ug/L	10.0	2.7	10		06/27/19 00:04	156-59-2	
cis-1,3-Dichloropropene	<36.3	ug/L	121	36.3	10		06/27/19 00:04	10061-01-5	
m&p-Xylene	<4.7	ug/L	20.0	4.7	10		06/27/19 00:04	179601-23-1	
n-Butylbenzene	<7.1	ug/L	23.6	7.1	10		06/27/19 00:04	104-51-8	
n-Propylbenzene	<8.1	ug/L	50.0	8.1	10		06/27/19 00:04	103-65-1	
o-Xylene	<2.6	ug/L	10.0	2.6	10		06/27/19 00:04	95-47-6	
p-Isopropyltoluene	<8.0	ug/L	26.7	8.0	10		06/27/19 00:04	99-87-6	
sec-Butylbenzene	<8.5	ug/L	50.0	8.5	10		06/27/19 00:04	135-98-8	
tert-Butylbenzene	<3.0	ug/L	10.1	3.0	10		06/27/19 00:04	98-06-6	
trans-1,2-Dichloroethene	<10.9	ug/L	36.4	10.9	10		06/27/19 00:04	156-60-5	
trans-1,3-Dichloropropene	<43.7	ug/L	146	43.7	10		06/27/19 00:04	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		10		06/27/19 00:04	460-00-4	
Dibromofluoromethane (S)	98	%	70-130		10		06/27/19 00:04	1868-53-7	
Toluene-d8 (S)	106	%	70-130		10		06/27/19 00:04	2037-26-5	

Sample: **MW-6A** Lab ID: **40189978012** Collected: 06/21/19 08:58 Received: 06/22/19 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		06/27/19 09:48	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/27/19 09:48	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		06/27/19 09:48	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		06/27/19 09:48	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		06/27/19 09:48	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/27/19 09:48	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		06/27/19 09:48	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		06/27/19 09:48	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		06/27/19 09:48	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/27/19 09:48	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		06/27/19 09:48	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		06/27/19 09:48	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		06/27/19 09:48	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		06/27/19 09:48	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		06/27/19 09:48	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		06/27/19 09:48	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		06/27/19 09:48	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		06/27/19 09:48	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		06/27/19 09:48	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		06/27/19 09:48	106-46-7	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189978

**Sample: MW-6A**      **Lab ID: 40189978012**      Collected: 06/21/19 08:58      Received: 06/22/19 09:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		06/27/19 09:48	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		06/27/19 09:48	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		06/27/19 09:48	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		06/27/19 09:48	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		06/27/19 09:48	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/27/19 09:48	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		06/27/19 09:48	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		06/27/19 09:48	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		06/27/19 09:48	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		06/27/19 09:48	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		06/27/19 09:48	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		06/27/19 09:48	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		06/27/19 09:48	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		06/27/19 09:48	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		06/27/19 09:48	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		06/27/19 09:48	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		06/27/19 09:48	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		06/27/19 09:48	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		06/27/19 09:48	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		06/27/19 09:48	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		06/27/19 09:48	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		06/27/19 09:48	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		06/27/19 09:48	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		06/27/19 09:48	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		06/27/19 09:48	100-42-5	
Tetrachloroethene	1.6	ug/L	1.1	0.33	1		06/27/19 09:48	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		06/27/19 09:48	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		06/27/19 09:48	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		06/27/19 09:48	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		06/27/19 09:48	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		06/27/19 09:48	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		06/27/19 09:48	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		06/27/19 09:48	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		06/27/19 09:48	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		06/27/19 09:48	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		06/27/19 09:48	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		06/27/19 09:48	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		06/27/19 09:48	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		06/27/19 09:48	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		06/27/19 09:48	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		06/27/19 09:48	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		1		06/27/19 09:48	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		1		06/27/19 09:48	1868-53-7	
Toluene-d8 (S)	106	%	70-130		1		06/27/19 09:48	2037-26-5	

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## ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189978

**Sample: MW-6**      **Lab ID: 40189978013**      Collected: 06/21/19 09:38      Received: 06/22/19 09:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<1.3	ug/L	5.0	1.3	5		06/27/19 10:33	630-20-6	
1,1,1-Trichloroethane	<1.2	ug/L	5.0	1.2	5		06/27/19 10:33	71-55-6	
1,1,2,2-Tetrachloroethane	<1.4	ug/L	5.0	1.4	5		06/27/19 10:33	79-34-5	
1,1,2-Trichloroethane	<2.8	ug/L	25.0	2.8	5		06/27/19 10:33	79-00-5	
1,1-Dichloroethane	2.0J	ug/L	5.0	1.4	5		06/27/19 10:33	75-34-3	
1,1-Dichloroethene	<1.2	ug/L	5.0	1.2	5		06/27/19 10:33	75-35-4	
1,1-Dichloropropene	<2.7	ug/L	9.0	2.7	5		06/27/19 10:33	563-58-6	
1,2,3-Trichlorobenzene	<3.1	ug/L	25.0	3.1	5		06/27/19 10:33	87-61-6	
1,2,3-Trichloropropane	<3.0	ug/L	25.0	3.0	5		06/27/19 10:33	96-18-4	
1,2,4-Trichlorobenzene	<4.8	ug/L	25.0	4.8	5		06/27/19 10:33	120-82-1	
1,2,4-Trimethylbenzene	<4.2	ug/L	14.0	4.2	5		06/27/19 10:33	95-63-6	
1,2-Dibromo-3-chloropropane	<8.8	ug/L	29.4	8.8	5		06/27/19 10:33	96-12-8	
1,2-Dibromoethane (EDB)	<4.1	ug/L	13.8	4.1	5		06/27/19 10:33	106-93-4	
1,2-Dichlorobenzene	<3.5	ug/L	11.8	3.5	5		06/27/19 10:33	95-50-1	
1,2-Dichloroethane	<1.4	ug/L	5.0	1.4	5		06/27/19 10:33	107-06-2	
1,2-Dichloropropane	<1.4	ug/L	5.0	1.4	5		06/27/19 10:33	78-87-5	
1,3,5-Trimethylbenzene	<4.4	ug/L	14.6	4.4	5		06/27/19 10:33	108-67-8	
1,3-Dichlorobenzene	<3.1	ug/L	10.5	3.1	5		06/27/19 10:33	541-73-1	
1,3-Dichloropropane	<4.1	ug/L	13.8	4.1	5		06/27/19 10:33	142-28-9	
1,4-Dichlorobenzene	<4.7	ug/L	15.7	4.7	5		06/27/19 10:33	106-46-7	
2,2-Dichloropropane	<11.3	ug/L	37.8	11.3	5		06/27/19 10:33	594-20-7	
2-Chlorotoluene	<4.6	ug/L	25.0	4.6	5		06/27/19 10:33	95-49-8	
4-Chlorotoluene	<3.8	ug/L	12.6	3.8	5		06/27/19 10:33	106-43-4	
Benzene	<1.2	ug/L	5.0	1.2	5		06/27/19 10:33	71-43-2	
Bromobenzene	<1.2	ug/L	5.0	1.2	5		06/27/19 10:33	108-86-1	
Bromochloromethane	<1.8	ug/L	25.0	1.8	5		06/27/19 10:33	74-97-5	
Bromodichloromethane	<1.8	ug/L	6.1	1.8	5		06/27/19 10:33	75-27-4	
Bromoform	<19.9	ug/L	66.2	19.9	5		06/27/19 10:33	75-25-2	
Bromomethane	<4.9	ug/L	25.0	4.9	5		06/27/19 10:33	74-83-9	
Carbon tetrachloride	<0.83	ug/L	5.0	0.83	5		06/27/19 10:33	56-23-5	
Chlorobenzene	<3.6	ug/L	11.8	3.6	5		06/27/19 10:33	108-90-7	
Chloroethane	<6.7	ug/L	25.0	6.7	5		06/27/19 10:33	75-00-3	
Chloroform	<6.4	ug/L	25.0	6.4	5		06/27/19 10:33	67-66-3	
Chloromethane	<10.9	ug/L	36.5	10.9	5		06/27/19 10:33	74-87-3	
Dibromochloromethane	<13.0	ug/L	43.4	13.0	5		06/27/19 10:33	124-48-1	
Dibromomethane	<4.7	ug/L	15.6	4.7	5		06/27/19 10:33	74-95-3	
Dichlorodifluoromethane	<2.5	ug/L	25.0	2.5	5		06/27/19 10:33	75-71-8	
Diisopropyl ether	<9.4	ug/L	31.5	9.4	5		06/27/19 10:33	108-20-3	
Ethylbenzene	<1.1	ug/L	5.0	1.1	5		06/27/19 10:33	100-41-4	
Hexachloro-1,3-butadiene	<5.9	ug/L	25.0	5.9	5		06/27/19 10:33	87-68-3	
Isopropylbenzene (Cumene)	<2.0	ug/L	25.0	2.0	5		06/27/19 10:33	98-82-8	
Methyl-tert-butyl ether	<6.2	ug/L	20.8	6.2	5		06/27/19 10:33	1634-04-4	
Methylene Chloride	<2.9	ug/L	25.0	2.9	5		06/27/19 10:33	75-09-2	
Naphthalene	<5.9	ug/L	25.0	5.9	5		06/27/19 10:33	91-20-3	
Styrene	<2.3	ug/L	7.8	2.3	5		06/27/19 10:33	100-42-5	
Tetrachloroethene	<1.6	ug/L	5.4	1.6	5		06/27/19 10:33	127-18-4	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189978

**Sample: MW-6**      **Lab ID: 40189978013**      Collected: 06/21/19 09:38      Received: 06/22/19 09:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Toluene	<0.86	ug/L	25.0	0.86	5		06/27/19 10:33	108-88-3	
Trichloroethene	42.5	ug/L	5.0	1.3	5		06/27/19 10:33	79-01-6	
Trichlorofluoromethane	<1.1	ug/L	5.0	1.1	5		06/27/19 10:33	75-69-4	
Vinyl chloride	46.2	ug/L	5.0	0.87	5		06/27/19 10:33	75-01-4	
cis-1,2-Dichloroethene	458	ug/L	5.0	1.4	5		06/27/19 10:33	156-59-2	
cis-1,3-Dichloropropene	<18.1	ug/L	60.5	18.1	5		06/27/19 10:33	10061-01-5	
m&p-Xylene	<2.3	ug/L	10.0	2.3	5		06/27/19 10:33	179601-23-1	
n-Butylbenzene	<3.5	ug/L	11.8	3.5	5		06/27/19 10:33	104-51-8	
n-Propylbenzene	<4.1	ug/L	25.0	4.1	5		06/27/19 10:33	103-65-1	
o-Xylene	<1.3	ug/L	5.0	1.3	5		06/27/19 10:33	95-47-6	
p-Isopropyltoluene	<4.0	ug/L	13.3	4.0	5		06/27/19 10:33	99-87-6	
sec-Butylbenzene	<4.2	ug/L	25.0	4.2	5		06/27/19 10:33	135-98-8	
tert-Butylbenzene	<1.5	ug/L	5.1	1.5	5		06/27/19 10:33	98-06-6	
trans-1,2-Dichloroethene	<5.5	ug/L	18.2	5.5	5		06/27/19 10:33	156-60-5	
trans-1,3-Dichloropropene	<21.9	ug/L	72.8	21.9	5		06/27/19 10:33	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		5		06/27/19 10:33	460-00-4	
Dibromofluoromethane (S)	97	%	70-130		5		06/27/19 10:33	1868-53-7	
Toluene-d8 (S)	106	%	70-130		5		06/27/19 10:33	2037-26-5	

**Sample: RW-6**      **Lab ID: 40189978014**      Collected: 06/21/19 10:14      Received: 06/22/19 09:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<2.7	ug/L	10.0	2.7	10		06/27/19 01:11	630-20-6	
1,1,1-Trichloroethane	<2.4	ug/L	10.0	2.4	10		06/27/19 01:11	71-55-6	
1,1,1,2,2-Tetrachloroethane	<2.8	ug/L	10.0	2.8	10		06/27/19 01:11	79-34-5	
1,1,2-Trichloroethane	<5.5	ug/L	50.0	5.5	10		06/27/19 01:11	79-00-5	
1,1-Dichloroethane	<2.7	ug/L	10.0	2.7	10		06/27/19 01:11	75-34-3	
1,1-Dichloroethene	<2.4	ug/L	10.0	2.4	10		06/27/19 01:11	75-35-4	
1,1-Dichloropropene	<5.4	ug/L	18.0	5.4	10		06/27/19 01:11	563-58-6	
1,2,3-Trichlorobenzene	<6.3	ug/L	50.0	6.3	10		06/27/19 01:11	87-61-6	
1,2,3-Trichloropropane	<5.9	ug/L	50.0	5.9	10		06/27/19 01:11	96-18-4	
1,2,4-Trichlorobenzene	<9.5	ug/L	50.0	9.5	10		06/27/19 01:11	120-82-1	
1,2,4-Trimethylbenzene	<8.4	ug/L	28.0	8.4	10		06/27/19 01:11	95-63-6	
1,2-Dibromo-3-chloropropane	<17.6	ug/L	58.8	17.6	10		06/27/19 01:11	96-12-8	
1,2-Dibromoethane (EDB)	<8.3	ug/L	27.6	8.3	10		06/27/19 01:11	106-93-4	
1,2-Dichlorobenzene	<7.1	ug/L	23.5	7.1	10		06/27/19 01:11	95-50-1	
1,2-Dichloroethane	<2.8	ug/L	10.0	2.8	10		06/27/19 01:11	107-06-2	
1,2-Dichloropropane	<2.8	ug/L	10.0	2.8	10		06/27/19 01:11	78-87-5	
1,3,5-Trimethylbenzene	<8.7	ug/L	29.1	8.7	10		06/27/19 01:11	108-67-8	
1,3-Dichlorobenzene	<6.3	ug/L	20.9	6.3	10		06/27/19 01:11	541-73-1	
1,3-Dichloropropane	<8.3	ug/L	27.5	8.3	10		06/27/19 01:11	142-28-9	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189978

Sample: RW-6 Lab ID: 40189978014 Collected: 06/21/19 10:14 Received: 06/22/19 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,4-Dichlorobenzene	<9.4	ug/L	31.5	9.4	10		06/27/19 01:11	106-46-7	
2,2-Dichloropropane	<22.7	ug/L	75.5	22.7	10		06/27/19 01:11	594-20-7	
2-Chlorotoluene	<9.3	ug/L	50.0	9.3	10		06/27/19 01:11	95-49-8	
4-Chlorotoluene	<7.6	ug/L	25.2	7.6	10		06/27/19 01:11	106-43-4	
Benzene	<2.5	ug/L	10.0	2.5	10		06/27/19 01:11	71-43-2	
Bromobenzene	<2.4	ug/L	10.0	2.4	10		06/27/19 01:11	108-86-1	
Bromochloromethane	<3.6	ug/L	50.0	3.6	10		06/27/19 01:11	74-97-5	
Bromodichloromethane	<3.6	ug/L	12.1	3.6	10		06/27/19 01:11	75-27-4	
Bromoform	<39.7	ug/L	132	39.7	10		06/27/19 01:11	75-25-2	
Bromomethane	<9.7	ug/L	50.0	9.7	10		06/27/19 01:11	74-83-9	
Carbon tetrachloride	<1.7	ug/L	10.0	1.7	10		06/27/19 01:11	56-23-5	
Chlorobenzene	<7.1	ug/L	23.7	7.1	10		06/27/19 01:11	108-90-7	
Chloroethane	<13.4	ug/L	50.0	13.4	10		06/27/19 01:11	75-00-3	
Chloroform	<12.7	ug/L	50.0	12.7	10		06/27/19 01:11	67-66-3	
Chloromethane	<21.9	ug/L	73.0	21.9	10		06/27/19 01:11	74-87-3	
Dibromochloromethane	<26.0	ug/L	86.7	26.0	10		06/27/19 01:11	124-48-1	
Dibromomethane	<9.4	ug/L	31.2	9.4	10		06/27/19 01:11	74-95-3	
Dichlorodifluoromethane	<5.0	ug/L	50.0	5.0	10		06/27/19 01:11	75-71-8	
Diisopropyl ether	<18.9	ug/L	62.9	18.9	10		06/27/19 01:11	108-20-3	
Ethylbenzene	<2.2	ug/L	10.0	2.2	10		06/27/19 01:11	100-41-4	
Hexachloro-1,3-butadiene	<11.8	ug/L	50.0	11.8	10		06/27/19 01:11	87-68-3	
Isopropylbenzene (Cumene)	<3.9	ug/L	50.0	3.9	10		06/27/19 01:11	98-82-8	
Methyl-tert-butyl ether	<12.5	ug/L	41.5	12.5	10		06/27/19 01:11	1634-04-4	
Methylene Chloride	<5.8	ug/L	50.0	5.8	10		06/27/19 01:11	75-09-2	
Naphthalene	<11.8	ug/L	50.0	11.8	10		06/27/19 01:11	91-20-3	
Styrene	<4.7	ug/L	15.5	4.7	10		06/27/19 01:11	100-42-5	
Tetrachloroethene	<3.3	ug/L	10.9	3.3	10		06/27/19 01:11	127-18-4	
Toluene	<1.7	ug/L	50.0	1.7	10		06/27/19 01:11	108-88-3	
Trichloroethene	118	ug/L	10.0	2.6	10		06/27/19 01:11	79-01-6	
Trichlorofluoromethane	<2.1	ug/L	10.0	2.1	10		06/27/19 01:11	75-69-4	
Vinyl chloride	16.7	ug/L	10.0	1.7	10		06/27/19 01:11	75-01-4	
cis-1,2-Dichloroethene	407	ug/L	10.0	2.7	10		06/27/19 01:11	156-59-2	
cis-1,3-Dichloropropene	<36.3	ug/L	121	36.3	10		06/27/19 01:11	10061-01-5	
m&p-Xylene	<4.7	ug/L	20.0	4.7	10		06/27/19 01:11	179601-23-1	
n-Butylbenzene	<7.1	ug/L	23.6	7.1	10		06/27/19 01:11	104-51-8	
n-Propylbenzene	<8.1	ug/L	50.0	8.1	10		06/27/19 01:11	103-65-1	
o-Xylene	<2.6	ug/L	10.0	2.6	10		06/27/19 01:11	95-47-6	
p-Isopropyltoluene	<8.0	ug/L	26.7	8.0	10		06/27/19 01:11	99-87-6	
sec-Butylbenzene	<8.5	ug/L	50.0	8.5	10		06/27/19 01:11	135-98-8	
tert-Butylbenzene	<3.0	ug/L	10.1	3.0	10		06/27/19 01:11	98-06-6	
trans-1,2-Dichloroethene	<10.9	ug/L	36.4	10.9	10		06/27/19 01:11	156-60-5	
trans-1,3-Dichloropropene	<43.7	ug/L	146	43.7	10		06/27/19 01:11	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		10		06/27/19 01:11	460-00-4	
Dibromofluoromethane (S)	100	%	70-130		10		06/27/19 01:11	1868-53-7	
Toluene-d8 (S)	106	%	70-130		10		06/27/19 01:11	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189978

**Sample: OP-4**      **Lab ID: 40189978015**      Collected: 06/21/19 10:53      Received: 06/22/19 09:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.54	ug/L	2.0	0.54	2		06/27/19 10:55	630-20-6	
1,1,1-Trichloroethane	186	ug/L	2.0	0.49	2		06/27/19 10:55	71-55-6	
1,1,2,2-Tetrachloroethane	<0.55	ug/L	2.0	0.55	2		06/27/19 10:55	79-34-5	
1,1,2-Trichloroethane	<1.1	ug/L	10.0	1.1	2		06/27/19 10:55	79-00-5	
1,1-Dichloroethane	28.2	ug/L	2.0	0.55	2		06/27/19 10:55	75-34-3	
1,1-Dichloroethene	14.3	ug/L	2.0	0.49	2		06/27/19 10:55	75-35-4	
1,1-Dichloropropene	<1.1	ug/L	3.6	1.1	2		06/27/19 10:55	563-58-6	
1,2,3-Trichlorobenzene	<1.3	ug/L	10.0	1.3	2		06/27/19 10:55	87-61-6	
1,2,3-Trichloropropane	<1.2	ug/L	10.0	1.2	2		06/27/19 10:55	96-18-4	
1,2,4-Trichlorobenzene	<1.9	ug/L	10.0	1.9	2		06/27/19 10:55	120-82-1	
1,2,4-Trimethylbenzene	<1.7	ug/L	5.6	1.7	2		06/27/19 10:55	95-63-6	
1,2-Dibromo-3-chloropropane	<3.5	ug/L	11.8	3.5	2		06/27/19 10:55	96-12-8	
1,2-Dibromoethane (EDB)	<1.7	ug/L	5.5	1.7	2		06/27/19 10:55	106-93-4	
1,2-Dichlorobenzene	<1.4	ug/L	4.7	1.4	2		06/27/19 10:55	95-50-1	
1,2-Dichloroethane	<0.56	ug/L	2.0	0.56	2		06/27/19 10:55	107-06-2	
1,2-Dichloropropane	<0.57	ug/L	2.0	0.57	2		06/27/19 10:55	78-87-5	
1,3,5-Trimethylbenzene	<1.7	ug/L	5.8	1.7	2		06/27/19 10:55	108-67-8	
1,3-Dichlorobenzene	<1.3	ug/L	4.2	1.3	2		06/27/19 10:55	541-73-1	
1,3-Dichloropropane	<1.7	ug/L	5.5	1.7	2		06/27/19 10:55	142-28-9	
1,4-Dichlorobenzene	<1.9	ug/L	6.3	1.9	2		06/27/19 10:55	106-46-7	
2,2-Dichloropropane	<4.5	ug/L	15.1	4.5	2		06/27/19 10:55	594-20-7	
2-Chlorotoluene	<1.9	ug/L	10.0	1.9	2		06/27/19 10:55	95-49-8	
4-Chlorotoluene	<1.5	ug/L	5.0	1.5	2		06/27/19 10:55	106-43-4	
Benzene	<0.49	ug/L	2.0	0.49	2		06/27/19 10:55	71-43-2	
Bromobenzene	<0.48	ug/L	2.0	0.48	2		06/27/19 10:55	108-86-1	
Bromochloromethane	<0.72	ug/L	10.0	0.72	2		06/27/19 10:55	74-97-5	
Bromodichloromethane	<0.73	ug/L	2.4	0.73	2		06/27/19 10:55	75-27-4	
Bromoform	<7.9	ug/L	26.5	7.9	2		06/27/19 10:55	75-25-2	
Bromomethane	<1.9	ug/L	10.0	1.9	2		06/27/19 10:55	74-83-9	
Carbon tetrachloride	<0.33	ug/L	2.0	0.33	2		06/27/19 10:55	56-23-5	
Chlorobenzene	<1.4	ug/L	4.7	1.4	2		06/27/19 10:55	108-90-7	
Chloroethane	<2.7	ug/L	10.0	2.7	2		06/27/19 10:55	75-00-3	
Chloroform	<2.5	ug/L	10.0	2.5	2		06/27/19 10:55	67-66-3	
Chloromethane	<4.4	ug/L	14.6	4.4	2		06/27/19 10:55	74-87-3	
Dibromochloromethane	<5.2	ug/L	17.3	5.2	2		06/27/19 10:55	124-48-1	
Dibromomethane	<1.9	ug/L	6.2	1.9	2		06/27/19 10:55	74-95-3	
Dichlorodifluoromethane	<1.0	ug/L	10.0	1.0	2		06/27/19 10:55	75-71-8	
Diisopropyl ether	<3.8	ug/L	12.6	3.8	2		06/27/19 10:55	108-20-3	
Ethylbenzene	<0.44	ug/L	2.0	0.44	2		06/27/19 10:55	100-41-4	
Hexachloro-1,3-butadiene	<2.4	ug/L	10.0	2.4	2		06/27/19 10:55	87-68-3	
Isopropylbenzene (Cumene)	<0.79	ug/L	10.0	0.79	2		06/27/19 10:55	98-82-8	
Methyl-tert-butyl ether	<2.5	ug/L	8.3	2.5	2		06/27/19 10:55	1634-04-4	
Methylene Chloride	<1.2	ug/L	10.0	1.2	2		06/27/19 10:55	75-09-2	
Naphthalene	<2.4	ug/L	10.0	2.4	2		06/27/19 10:55	91-20-3	
Styrene	<0.93	ug/L	3.1	0.93	2		06/27/19 10:55	100-42-5	
Tetrachloroethene	1.4J	ug/L	2.2	0.65	2		06/27/19 10:55	127-18-4	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189978

Sample: **OP-4** Lab ID: **40189978015** Collected: 06/21/19 10:53 Received: 06/22/19 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Toluene	<0.34	ug/L	10.0	0.34	2		06/27/19 10:55	108-88-3	
Trichloroethene	175	ug/L	2.0	0.51	2		06/27/19 10:55	79-01-6	
Trichlorofluoromethane	<0.43	ug/L	2.0	0.43	2		06/27/19 10:55	75-69-4	
Vinyl chloride	<0.35	ug/L	2.0	0.35	2		06/27/19 10:55	75-01-4	
cis-1,2-Dichloroethene	47.4	ug/L	2.0	0.54	2		06/27/19 10:55	156-59-2	
cis-1,3-Dichloropropene	<7.3	ug/L	24.2	7.3	2		06/27/19 10:55	10061-01-5	
m&p-Xylene	<0.93	ug/L	4.0	0.93	2		06/27/19 10:55	179601-23-1	
n-Butylbenzene	<1.4	ug/L	4.7	1.4	2		06/27/19 10:55	104-51-8	
n-Propylbenzene	<1.6	ug/L	10.0	1.6	2		06/27/19 10:55	103-65-1	
o-Xylene	<0.52	ug/L	2.0	0.52	2		06/27/19 10:55	95-47-6	
p-Isopropyltoluene	<1.6	ug/L	5.3	1.6	2		06/27/19 10:55	99-87-6	
sec-Butylbenzene	<1.7	ug/L	10.0	1.7	2		06/27/19 10:55	135-98-8	
tert-Butylbenzene	<0.61	ug/L	2.0	0.61	2		06/27/19 10:55	98-06-6	
trans-1,2-Dichloroethene	<2.2	ug/L	7.3	2.2	2		06/27/19 10:55	156-60-5	
trans-1,3-Dichloropropene	<8.7	ug/L	29.1	8.7	2		06/27/19 10:55	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		2		06/27/19 10:55	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		2		06/27/19 10:55	1868-53-7	
Toluene-d8 (S)	106	%	70-130		2		06/27/19 10:55	2037-26-5	

Sample: **RW-25** Lab ID: **40189978016** Collected: 06/21/19 11:35 Received: 06/22/19 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		06/27/19 10:11	630-20-6	
1,1,1-Trichloroethane	49.9	ug/L	1.0	0.24	1		06/27/19 10:11	71-55-6	
1,1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		06/27/19 10:11	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		06/27/19 10:11	79-00-5	
1,1-Dichloroethane	17.5	ug/L	1.0	0.27	1		06/27/19 10:11	75-34-3	
1,1-Dichloroethene	3.3	ug/L	1.0	0.24	1		06/27/19 10:11	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		06/27/19 10:11	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		06/27/19 10:11	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		06/27/19 10:11	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/27/19 10:11	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		06/27/19 10:11	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		06/27/19 10:11	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		06/27/19 10:11	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		06/27/19 10:11	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		06/27/19 10:11	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		06/27/19 10:11	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		06/27/19 10:11	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		06/27/19 10:11	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		06/27/19 10:11	142-28-9	

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## ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189978

**Sample: RW-25**      **Lab ID: 40189978016**      Collected: 06/21/19 11:35      Received: 06/22/19 09:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		06/27/19 10:11	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		06/27/19 10:11	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		06/27/19 10:11	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		06/27/19 10:11	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		06/27/19 10:11	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		06/27/19 10:11	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/27/19 10:11	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		06/27/19 10:11	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		06/27/19 10:11	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		06/27/19 10:11	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		06/27/19 10:11	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		06/27/19 10:11	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		06/27/19 10:11	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		06/27/19 10:11	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		06/27/19 10:11	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		06/27/19 10:11	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		06/27/19 10:11	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		06/27/19 10:11	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		06/27/19 10:11	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		06/27/19 10:11	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		06/27/19 10:11	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		06/27/19 10:11	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		06/27/19 10:11	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		06/27/19 10:11	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		06/27/19 10:11	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		06/27/19 10:11	100-42-5	
Tetrachloroethene	0.89J	ug/L	1.1	0.33	1		06/27/19 10:11	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		06/27/19 10:11	108-88-3	
Trichloroethene	30.8	ug/L	1.0	0.26	1		06/27/19 10:11	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		06/27/19 10:11	75-69-4	
Vinyl chloride	0.68J	ug/L	1.0	0.17	1		06/27/19 10:11	75-01-4	
cis-1,2-Dichloroethene	59.8	ug/L	1.0	0.27	1		06/27/19 10:11	156-59-2	
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		06/27/19 10:11	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		06/27/19 10:11	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		06/27/19 10:11	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		06/27/19 10:11	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		06/27/19 10:11	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		06/27/19 10:11	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		06/27/19 10:11	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		06/27/19 10:11	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		06/27/19 10:11	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		06/27/19 10:11	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		1		06/27/19 10:11	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		1		06/27/19 10:11	1868-53-7	
Toluene-d8 (S)	107	%	70-130		1		06/27/19 10:11	2037-26-5	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189978

**Sample: RW-5**      **Lab ID: 40189978017**      Collected: 06/21/19 12:24      Received: 06/22/19 09:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<2.7	ug/L	10.0	2.7	10		06/27/19 02:19	630-20-6	
1,1,1-Trichloroethane	290	ug/L	10.0	2.4	10		06/27/19 02:19	71-55-6	
1,1,2,2-Tetrachloroethane	<2.8	ug/L	10.0	2.8	10		06/27/19 02:19	79-34-5	
1,1,2-Trichloroethane	<5.5	ug/L	50.0	5.5	10		06/27/19 02:19	79-00-5	
1,1-Dichloroethane	33.8	ug/L	10.0	2.7	10		06/27/19 02:19	75-34-3	
1,1-Dichloroethene	12.0	ug/L	10.0	2.4	10		06/27/19 02:19	75-35-4	
1,1-Dichloropropene	<5.4	ug/L	18.0	5.4	10		06/27/19 02:19	563-58-6	
1,2,3-Trichlorobenzene	<6.3	ug/L	50.0	6.3	10		06/27/19 02:19	87-61-6	
1,2,3-Trichloropropane	<5.9	ug/L	50.0	5.9	10		06/27/19 02:19	96-18-4	
1,2,4-Trichlorobenzene	<9.5	ug/L	50.0	9.5	10		06/27/19 02:19	120-82-1	
1,2,4-Trimethylbenzene	<8.4	ug/L	28.0	8.4	10		06/27/19 02:19	95-63-6	
1,2-Dibromo-3-chloropropane	<17.6	ug/L	58.8	17.6	10		06/27/19 02:19	96-12-8	
1,2-Dibromoethane (EDB)	<8.3	ug/L	27.6	8.3	10		06/27/19 02:19	106-93-4	
1,2-Dichlorobenzene	<7.1	ug/L	23.5	7.1	10		06/27/19 02:19	95-50-1	
1,2-Dichloroethane	<2.8	ug/L	10.0	2.8	10		06/27/19 02:19	107-06-2	
1,2-Dichloropropane	<2.8	ug/L	10.0	2.8	10		06/27/19 02:19	78-87-5	
1,3,5-Trimethylbenzene	<8.7	ug/L	29.1	8.7	10		06/27/19 02:19	108-67-8	
1,3-Dichlorobenzene	<6.3	ug/L	20.9	6.3	10		06/27/19 02:19	541-73-1	
1,3-Dichloropropane	<8.3	ug/L	27.5	8.3	10		06/27/19 02:19	142-28-9	
1,4-Dichlorobenzene	<9.4	ug/L	31.5	9.4	10		06/27/19 02:19	106-46-7	
2,2-Dichloropropane	<22.7	ug/L	75.5	22.7	10		06/27/19 02:19	594-20-7	
2-Chlorotoluene	<9.3	ug/L	50.0	9.3	10		06/27/19 02:19	95-49-8	
4-Chlorotoluene	<7.6	ug/L	25.2	7.6	10		06/27/19 02:19	106-43-4	
Benzene	<2.5	ug/L	10.0	2.5	10		06/27/19 02:19	71-43-2	
Bromobenzene	<2.4	ug/L	10.0	2.4	10		06/27/19 02:19	108-86-1	
Bromochloromethane	<3.6	ug/L	50.0	3.6	10		06/27/19 02:19	74-97-5	
Bromodichloromethane	<3.6	ug/L	12.1	3.6	10		06/27/19 02:19	75-27-4	
Bromoform	<39.7	ug/L	132	39.7	10		06/27/19 02:19	75-25-2	
Bromomethane	<9.7	ug/L	50.0	9.7	10		06/27/19 02:19	74-83-9	
Carbon tetrachloride	<1.7	ug/L	10.0	1.7	10		06/27/19 02:19	56-23-5	
Chlorobenzene	<7.1	ug/L	23.7	7.1	10		06/27/19 02:19	108-90-7	
Chloroethane	<13.4	ug/L	50.0	13.4	10		06/27/19 02:19	75-00-3	
Chloroform	<12.7	ug/L	50.0	12.7	10		06/27/19 02:19	67-66-3	
Chloromethane	<21.9	ug/L	73.0	21.9	10		06/27/19 02:19	74-87-3	
Dibromochloromethane	<26.0	ug/L	86.7	26.0	10		06/27/19 02:19	124-48-1	
Dibromomethane	<9.4	ug/L	31.2	9.4	10		06/27/19 02:19	74-95-3	
Dichlorodifluoromethane	<5.0	ug/L	50.0	5.0	10		06/27/19 02:19	75-71-8	
Diisopropyl ether	<18.9	ug/L	62.9	18.9	10		06/27/19 02:19	108-20-3	
Ethylbenzene	<2.2	ug/L	10.0	2.2	10		06/27/19 02:19	100-41-4	
Hexachloro-1,3-butadiene	<11.8	ug/L	50.0	11.8	10		06/27/19 02:19	87-68-3	
Isopropylbenzene (Cumene)	<3.9	ug/L	50.0	3.9	10		06/27/19 02:19	98-82-8	
Methyl-tert-butyl ether	<12.5	ug/L	41.5	12.5	10		06/27/19 02:19	1634-04-4	
Methylene Chloride	<5.8	ug/L	50.0	5.8	10		06/27/19 02:19	75-09-2	
Naphthalene	<11.8	ug/L	50.0	11.8	10		06/27/19 02:19	91-20-3	
Styrene	<4.7	ug/L	15.5	4.7	10		06/27/19 02:19	100-42-5	
Tetrachloroethene	<3.3	ug/L	10.9	3.3	10		06/27/19 02:19	127-18-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189978

Sample: RW-5 Lab ID: 40189978017 Collected: 06/21/19 12:24 Received: 06/22/19 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Toluene	<1.7	ug/L	50.0	1.7	10		06/27/19 02:19	108-88-3	
Trichloroethene	520	ug/L	10.0	2.6	10		06/27/19 02:19	79-01-6	
Trichlorofluoromethane	<2.1	ug/L	10.0	2.1	10		06/27/19 02:19	75-69-4	
Vinyl chloride	24.3	ug/L	10.0	1.7	10		06/27/19 02:19	75-01-4	
cis-1,2-Dichloroethene	1600	ug/L	10.0	2.7	10		06/27/19 02:19	156-59-2	
cis-1,3-Dichloropropene	<36.3	ug/L	121	36.3	10		06/27/19 02:19	10061-01-5	
m&p-Xylene	<4.7	ug/L	20.0	4.7	10		06/27/19 02:19	179601-23-1	
n-Butylbenzene	<7.1	ug/L	23.6	7.1	10		06/27/19 02:19	104-51-8	
n-Propylbenzene	<8.1	ug/L	50.0	8.1	10		06/27/19 02:19	103-65-1	
o-Xylene	<2.6	ug/L	10.0	2.6	10		06/27/19 02:19	95-47-6	
p-Isopropyltoluene	<8.0	ug/L	26.7	8.0	10		06/27/19 02:19	99-87-6	
sec-Butylbenzene	<8.5	ug/L	50.0	8.5	10		06/27/19 02:19	135-98-8	
tert-Butylbenzene	<3.0	ug/L	10.1	3.0	10		06/27/19 02:19	98-06-6	
trans-1,2-Dichloroethene	16.6J	ug/L	36.4	10.9	10		06/27/19 02:19	156-60-5	
trans-1,3-Dichloropropene	<43.7	ug/L	146	43.7	10		06/27/19 02:19	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		10		06/27/19 02:19	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		10		06/27/19 02:19	1868-53-7	
Toluene-d8 (S)	106	%	70-130		10		06/27/19 02:19	2037-26-5	

Sample: DUP-6 Lab ID: 40189978018 Collected: 06/21/19 00:00 Received: 06/22/19 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.54	ug/L	2.0	0.54	2		06/28/19 10:08	630-20-6	
1,1,1-Trichloroethane	139	ug/L	2.0	0.49	2		06/28/19 10:08	71-55-6	
1,1,1,2,2-Tetrachloroethane	<0.55	ug/L	2.0	0.55	2		06/28/19 10:08	79-34-5	
1,1,2-Trichloroethane	<1.1	ug/L	10.0	1.1	2		06/28/19 10:08	79-00-5	
1,1-Dichloroethane	27.7	ug/L	2.0	0.55	2		06/28/19 10:08	75-34-3	
1,1-Dichloroethene	6.2	ug/L	2.0	0.49	2		06/28/19 10:08	75-35-4	
1,1-Dichloropropene	<1.1	ug/L	3.6	1.1	2		06/28/19 10:08	563-58-6	
1,2,3-Trichlorobenzene	<1.3	ug/L	10.0	1.3	2		06/28/19 10:08	87-61-6	
1,2,3-Trichloropropane	<1.2	ug/L	10.0	1.2	2		06/28/19 10:08	96-18-4	
1,2,4-Trichlorobenzene	<1.9	ug/L	10.0	1.9	2		06/28/19 10:08	120-82-1	
1,2,4-Trimethylbenzene	<1.7	ug/L	5.6	1.7	2		06/28/19 10:08	95-63-6	
1,2-Dibromo-3-chloropropane	<3.5	ug/L	11.8	3.5	2		06/28/19 10:08	96-12-8	
1,2-Dibromoethane (EDB)	<1.7	ug/L	5.5	1.7	2		06/28/19 10:08	106-93-4	
1,2-Dichlorobenzene	<1.4	ug/L	4.7	1.4	2		06/28/19 10:08	95-50-1	
1,2-Dichloroethane	<0.56	ug/L	2.0	0.56	2		06/28/19 10:08	107-06-2	
1,2-Dichloropropane	<0.57	ug/L	2.0	0.57	2		06/28/19 10:08	78-87-5	
1,3,5-Trimethylbenzene	<1.7	ug/L	5.8	1.7	2		06/28/19 10:08	108-67-8	
1,3-Dichlorobenzene	<1.3	ug/L	4.2	1.3	2		06/28/19 10:08	541-73-1	
1,3-Dichloropropane	<1.7	ug/L	5.5	1.7	2		06/28/19 10:08	142-28-9	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189978

Sample: DUP-6 Lab ID: 40189978018 Collected: 06/21/19 00:00 Received: 06/22/19 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
1,4-Dichlorobenzene	<1.9	ug/L	6.3	1.9	2		06/28/19 10:08	106-46-7	
2,2-Dichloropropane	<4.5	ug/L	15.1	4.5	2		06/28/19 10:08	594-20-7	
2-Chlorotoluene	<1.9	ug/L	10.0	1.9	2		06/28/19 10:08	95-49-8	
4-Chlorotoluene	<1.5	ug/L	5.0	1.5	2		06/28/19 10:08	106-43-4	
Benzene	<0.49	ug/L	2.0	0.49	2		06/28/19 10:08	71-43-2	
Bromobenzene	<0.48	ug/L	2.0	0.48	2		06/28/19 10:08	108-86-1	
Bromochloromethane	<0.72	ug/L	10.0	0.72	2		06/28/19 10:08	74-97-5	
Bromodichloromethane	<0.73	ug/L	2.4	0.73	2		06/28/19 10:08	75-27-4	
Bromoform	<7.9	ug/L	26.5	7.9	2		06/28/19 10:08	75-25-2	
Bromomethane	<1.9	ug/L	10.0	1.9	2		06/28/19 10:08	74-83-9	
Carbon tetrachloride	<0.33	ug/L	2.0	0.33	2		06/28/19 10:08	56-23-5	
Chlorobenzene	<1.4	ug/L	4.7	1.4	2		06/28/19 10:08	108-90-7	
Chloroethane	<2.7	ug/L	10.0	2.7	2		06/28/19 10:08	75-00-3	
Chloroform	<2.5	ug/L	10.0	2.5	2		06/28/19 10:08	67-66-3	
Chloromethane	<4.4	ug/L	14.6	4.4	2		06/28/19 10:08	74-87-3	
Dibromochloromethane	<5.2	ug/L	17.3	5.2	2		06/28/19 10:08	124-48-1	
Dibromomethane	<1.9	ug/L	6.2	1.9	2		06/28/19 10:08	74-95-3	
Dichlorodifluoromethane	<1.0	ug/L	10.0	1.0	2		06/28/19 10:08	75-71-8	
Diisopropyl ether	<3.8	ug/L	12.6	3.8	2		06/28/19 10:08	108-20-3	
Ethylbenzene	<0.44	ug/L	2.0	0.44	2		06/28/19 10:08	100-41-4	
Hexachloro-1,3-butadiene	<2.4	ug/L	10.0	2.4	2		06/28/19 10:08	87-68-3	
Isopropylbenzene (Cumene)	<0.79	ug/L	10.0	0.79	2		06/28/19 10:08	98-82-8	
Methyl-tert-butyl ether	<2.5	ug/L	8.3	2.5	2		06/28/19 10:08	1634-04-4	
Methylene Chloride	<1.2	ug/L	10.0	1.2	2		06/28/19 10:08	75-09-2	
Naphthalene	<2.4	ug/L	10.0	2.4	2		06/28/19 10:08	91-20-3	
Styrene	<0.93	ug/L	3.1	0.93	2		06/28/19 10:08	100-42-5	
Tetrachloroethene	0.98J	ug/L	2.2	0.65	2		06/28/19 10:08	127-18-4	
Toluene	<0.34	ug/L	10.0	0.34	2		06/28/19 10:08	108-88-3	
Trichloroethene	130	ug/L	2.0	0.51	2		06/28/19 10:08	79-01-6	
Trichlorofluoromethane	<0.43	ug/L	2.0	0.43	2		06/28/19 10:08	75-69-4	
Vinyl chloride	2.0J	ug/L	2.0	0.35	2		06/28/19 10:08	75-01-4	
cis-1,2-Dichloroethene	165	ug/L	2.0	0.54	2		06/28/19 10:08	156-59-2	
cis-1,3-Dichloropropene	<7.3	ug/L	24.2	7.3	2		06/28/19 10:08	10061-01-5	
m&p-Xylene	<0.93	ug/L	4.0	0.93	2		06/28/19 10:08	179601-23-1	
n-Butylbenzene	<1.4	ug/L	4.7	1.4	2		06/28/19 10:08	104-51-8	
n-Propylbenzene	<1.6	ug/L	10.0	1.6	2		06/28/19 10:08	103-65-1	
o-Xylene	<0.52	ug/L	2.0	0.52	2		06/28/19 10:08	95-47-6	
p-Isopropyltoluene	<1.6	ug/L	5.3	1.6	2		06/28/19 10:08	99-87-6	
sec-Butylbenzene	<1.7	ug/L	10.0	1.7	2		06/28/19 10:08	135-98-8	
tert-Butylbenzene	<0.61	ug/L	2.0	0.61	2		06/28/19 10:08	98-06-6	
trans-1,2-Dichloroethene	<2.2	ug/L	7.3	2.2	2		06/28/19 10:08	156-60-5	
trans-1,3-Dichloropropene	<8.7	ug/L	29.1	8.7	2		06/28/19 10:08	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	99	%	70-130		2		06/28/19 10:08	460-00-4	
Dibromofluoromethane (S)	101	%	70-130		2		06/28/19 10:08	1868-53-7	
Toluene-d8 (S)	101	%	70-130		2		06/28/19 10:08	2037-26-5	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189978

**Sample: OP-5**      **Lab ID: 40189978019**      Collected: 06/21/19 12:55      Received: 06/22/19 09:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<2.7	ug/L	10.0	2.7	10		06/27/19 12:40	630-20-6	
1,1,1-Trichloroethane	<2.4	ug/L	10.0	2.4	10		06/27/19 12:40	71-55-6	
1,1,2,2-Tetrachloroethane	<2.8	ug/L	10.0	2.8	10		06/27/19 12:40	79-34-5	
1,1,2-Trichloroethane	<5.5	ug/L	50.0	5.5	10		06/27/19 12:40	79-00-5	
1,1-Dichloroethane	6.6J	ug/L	10.0	2.7	10		06/27/19 12:40	75-34-3	
1,1-Dichloroethene	3.7J	ug/L	10.0	2.4	10		06/27/19 12:40	75-35-4	
1,1-Dichloropropene	<5.4	ug/L	18.0	5.4	10		06/27/19 12:40	563-58-6	
1,2,3-Trichlorobenzene	<6.3	ug/L	50.0	6.3	10		06/27/19 12:40	87-61-6	
1,2,3-Trichloropropane	<5.9	ug/L	50.0	5.9	10		06/27/19 12:40	96-18-4	
1,2,4-Trichlorobenzene	<9.5	ug/L	50.0	9.5	10		06/27/19 12:40	120-82-1	
1,2,4-Trimethylbenzene	<8.4	ug/L	28.0	8.4	10		06/27/19 12:40	95-63-6	
1,2-Dibromo-3-chloropropane	<17.6	ug/L	58.8	17.6	10		06/27/19 12:40	96-12-8	
1,2-Dibromoethane (EDB)	<8.3	ug/L	27.6	8.3	10		06/27/19 12:40	106-93-4	
1,2-Dichlorobenzene	<7.1	ug/L	23.5	7.1	10		06/27/19 12:40	95-50-1	
1,2-Dichloroethane	<2.8	ug/L	10.0	2.8	10		06/27/19 12:40	107-06-2	
1,2-Dichloropropane	<2.8	ug/L	10.0	2.8	10		06/27/19 12:40	78-87-5	
1,3,5-Trimethylbenzene	<8.7	ug/L	29.1	8.7	10		06/27/19 12:40	108-67-8	
1,3-Dichlorobenzene	<6.3	ug/L	20.9	6.3	10		06/27/19 12:40	541-73-1	
1,3-Dichloropropane	<8.3	ug/L	27.5	8.3	10		06/27/19 12:40	142-28-9	
1,4-Dichlorobenzene	<9.4	ug/L	31.5	9.4	10		06/27/19 12:40	106-46-7	
2,2-Dichloropropane	<22.7	ug/L	75.5	22.7	10		06/27/19 12:40	594-20-7	
2-Chlorotoluene	<9.3	ug/L	50.0	9.3	10		06/27/19 12:40	95-49-8	
4-Chlorotoluene	<7.6	ug/L	25.2	7.6	10		06/27/19 12:40	106-43-4	
Benzene	<2.5	ug/L	10.0	2.5	10		06/27/19 12:40	71-43-2	
Bromobenzene	<2.4	ug/L	10.0	2.4	10		06/27/19 12:40	108-86-1	
Bromochloromethane	<3.6	ug/L	50.0	3.6	10		06/27/19 12:40	74-97-5	
Bromodichloromethane	<3.6	ug/L	12.1	3.6	10		06/27/19 12:40	75-27-4	
Bromoform	<39.7	ug/L	132	39.7	10		06/27/19 12:40	75-25-2	
Bromomethane	<9.7	ug/L	50.0	9.7	10		06/27/19 12:40	74-83-9	
Carbon tetrachloride	<1.7	ug/L	10.0	1.7	10		06/27/19 12:40	56-23-5	
Chlorobenzene	<7.1	ug/L	23.7	7.1	10		06/27/19 12:40	108-90-7	
Chloroethane	<13.4	ug/L	50.0	13.4	10		06/27/19 12:40	75-00-3	
Chloroform	<12.7	ug/L	50.0	12.7	10		06/27/19 12:40	67-66-3	
Chloromethane	<21.9	ug/L	73.0	21.9	10		06/27/19 12:40	74-87-3	
Dibromochloromethane	<26.0	ug/L	86.7	26.0	10		06/27/19 12:40	124-48-1	
Dibromomethane	<9.4	ug/L	31.2	9.4	10		06/27/19 12:40	74-95-3	
Dichlorodifluoromethane	<5.0	ug/L	50.0	5.0	10		06/27/19 12:40	75-71-8	
Diisopropyl ether	<18.9	ug/L	62.9	18.9	10		06/27/19 12:40	108-20-3	
Ethylbenzene	<2.2	ug/L	10.0	2.2	10		06/27/19 12:40	100-41-4	
Hexachloro-1,3-butadiene	<11.8	ug/L	50.0	11.8	10		06/27/19 12:40	87-68-3	
Isopropylbenzene (Cumene)	<3.9	ug/L	50.0	3.9	10		06/27/19 12:40	98-82-8	
Methyl-tert-butyl ether	<12.5	ug/L	41.5	12.5	10		06/27/19 12:40	1634-04-4	
Methylene Chloride	<5.8	ug/L	50.0	5.8	10		06/27/19 12:40	75-09-2	
Naphthalene	<11.8	ug/L	50.0	11.8	10		06/27/19 12:40	91-20-3	
Styrene	<4.7	ug/L	15.5	4.7	10		06/27/19 12:40	100-42-5	
Tetrachloroethene	<3.3	ug/L	10.9	3.3	10		06/27/19 12:40	127-18-4	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189978

**Sample: OP-5** Lab ID: 40189978019 Collected: 06/21/19 12:55 Received: 06/22/19 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Toluene	<1.7	ug/L	50.0	1.7	10		06/27/19 12:40	108-88-3	
Trichloroethene	476	ug/L	10.0	2.6	10		06/27/19 12:40	79-01-6	
Trichlorofluoromethane	<2.1	ug/L	10.0	2.1	10		06/27/19 12:40	75-69-4	
Vinyl chloride	44.8	ug/L	10.0	1.7	10		06/27/19 12:40	75-01-4	
cis-1,2-Dichloroethene	607	ug/L	10.0	2.7	10		06/27/19 12:40	156-59-2	
cis-1,3-Dichloropropene	<36.3	ug/L	121	36.3	10		06/27/19 12:40	10061-01-5	
m&p-Xylene	<4.7	ug/L	20.0	4.7	10		06/27/19 12:40	179601-23-1	
n-Butylbenzene	<7.1	ug/L	23.6	7.1	10		06/27/19 12:40	104-51-8	
n-Propylbenzene	<8.1	ug/L	50.0	8.1	10		06/27/19 12:40	103-65-1	
o-Xylene	<2.6	ug/L	10.0	2.6	10		06/27/19 12:40	95-47-6	
p-Isopropyltoluene	<8.0	ug/L	26.7	8.0	10		06/27/19 12:40	99-87-6	
sec-Butylbenzene	<8.5	ug/L	50.0	8.5	10		06/27/19 12:40	135-98-8	
tert-Butylbenzene	<3.0	ug/L	10.1	3.0	10		06/27/19 12:40	98-06-6	
trans-1,2-Dichloroethene	<10.9	ug/L	36.4	10.9	10		06/27/19 12:40	156-60-5	
trans-1,3-Dichloropropene	<43.7	ug/L	146	43.7	10		06/27/19 12:40	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	83	%	70-130		10		06/27/19 12:40	460-00-4	
Dibromofluoromethane (S)	99	%	70-130		10		06/27/19 12:40	1868-53-7	
Toluene-d8 (S)	98	%	70-130		10		06/27/19 12:40	2037-26-5	

**Sample: RW-4** Lab ID: 40189978020 Collected: 06/21/19 14:02 Received: 06/22/19 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.54	ug/L	2.0	0.54	2		06/28/19 10:29	630-20-6	
1,1,1-Trichloroethane	164	ug/L	2.0	0.49	2		06/28/19 10:29	71-55-6	
1,1,1,2,2-Tetrachloroethane	<0.55	ug/L	2.0	0.55	2		06/28/19 10:29	79-34-5	
1,1,2-Trichloroethane	<1.1	ug/L	10.0	1.1	2		06/28/19 10:29	79-00-5	
1,1-Dichloroethane	31.2	ug/L	2.0	0.55	2		06/28/19 10:29	75-34-3	
1,1-Dichloroethene	7.5	ug/L	2.0	0.49	2		06/28/19 10:29	75-35-4	
1,1-Dichloropropene	<1.1	ug/L	3.6	1.1	2		06/28/19 10:29	563-58-6	
1,2,3-Trichlorobenzene	<1.3	ug/L	10.0	1.3	2		06/28/19 10:29	87-61-6	
1,2,3-Trichloropropane	<1.2	ug/L	10.0	1.2	2		06/28/19 10:29	96-18-4	
1,2,4-Trichlorobenzene	<1.9	ug/L	10.0	1.9	2		06/28/19 10:29	120-82-1	
1,2,4-Trimethylbenzene	<1.7	ug/L	5.6	1.7	2		06/28/19 10:29	95-63-6	
1,2-Dibromo-3-chloropropane	<3.5	ug/L	11.8	3.5	2		06/28/19 10:29	96-12-8	
1,2-Dibromoethane (EDB)	<1.7	ug/L	5.5	1.7	2		06/28/19 10:29	106-93-4	
1,2-Dichlorobenzene	<1.4	ug/L	4.7	1.4	2		06/28/19 10:29	95-50-1	
1,2-Dichloroethane	<0.56	ug/L	2.0	0.56	2		06/28/19 10:29	107-06-2	
1,2-Dichloropropane	<0.57	ug/L	2.0	0.57	2		06/28/19 10:29	78-87-5	
1,3,5-Trimethylbenzene	<1.7	ug/L	5.8	1.7	2		06/28/19 10:29	108-67-8	
1,3-Dichlorobenzene	<1.3	ug/L	4.2	1.3	2		06/28/19 10:29	541-73-1	
1,3-Dichloropropane	<1.7	ug/L	5.5	1.7	2		06/28/19 10:29	142-28-9	

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## ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189978

**Sample: RW-4**      **Lab ID: 40189978020**      Collected: 06/21/19 14:02      Received: 06/22/19 09:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,4-Dichlorobenzene	<1.9	ug/L	6.3	1.9	2		06/28/19 10:29	106-46-7	
2,2-Dichloropropane	<4.5	ug/L	15.1	4.5	2		06/28/19 10:29	594-20-7	
2-Chlorotoluene	<1.9	ug/L	10.0	1.9	2		06/28/19 10:29	95-49-8	
4-Chlorotoluene	<1.5	ug/L	5.0	1.5	2		06/28/19 10:29	106-43-4	
Benzene	<0.49	ug/L	2.0	0.49	2		06/28/19 10:29	71-43-2	
Bromobenzene	<0.48	ug/L	2.0	0.48	2		06/28/19 10:29	108-86-1	
Bromochloromethane	<0.72	ug/L	10.0	0.72	2		06/28/19 10:29	74-97-5	
Bromodichloromethane	<0.73	ug/L	2.4	0.73	2		06/28/19 10:29	75-27-4	
Bromoform	<7.9	ug/L	26.5	7.9	2		06/28/19 10:29	75-25-2	
Bromomethane	<1.9	ug/L	10.0	1.9	2		06/28/19 10:29	74-83-9	
Carbon tetrachloride	<0.33	ug/L	2.0	0.33	2		06/28/19 10:29	56-23-5	
Chlorobenzene	<1.4	ug/L	4.7	1.4	2		06/28/19 10:29	108-90-7	
Chloroethane	<2.7	ug/L	10.0	2.7	2		06/28/19 10:29	75-00-3	
Chloroform	<2.5	ug/L	10.0	2.5	2		06/28/19 10:29	67-66-3	
Chloromethane	<4.4	ug/L	14.6	4.4	2		06/28/19 10:29	74-87-3	
Dibromochloromethane	<5.2	ug/L	17.3	5.2	2		06/28/19 10:29	124-48-1	
Dibromomethane	<1.9	ug/L	6.2	1.9	2		06/28/19 10:29	74-95-3	
Dichlorodifluoromethane	<1.0	ug/L	10.0	1.0	2		06/28/19 10:29	75-71-8	
Diisopropyl ether	<3.8	ug/L	12.6	3.8	2		06/28/19 10:29	108-20-3	
Ethylbenzene	<0.44	ug/L	2.0	0.44	2		06/28/19 10:29	100-41-4	
Hexachloro-1,3-butadiene	<2.4	ug/L	10.0	2.4	2		06/28/19 10:29	87-68-3	
Isopropylbenzene (Cumene)	<0.79	ug/L	10.0	0.79	2		06/28/19 10:29	98-82-8	
Methyl-tert-butyl ether	<2.5	ug/L	8.3	2.5	2		06/28/19 10:29	1634-04-4	
Methylene Chloride	<1.2	ug/L	10.0	1.2	2		06/28/19 10:29	75-09-2	
Naphthalene	<2.4	ug/L	10.0	2.4	2		06/28/19 10:29	91-20-3	
Styrene	<0.93	ug/L	3.1	0.93	2		06/28/19 10:29	100-42-5	
Tetrachloroethene	1.3J	ug/L	2.2	0.65	2		06/28/19 10:29	127-18-4	
Toluene	<0.34	ug/L	10.0	0.34	2		06/28/19 10:29	108-88-3	
Trichloroethene	143	ug/L	2.0	0.51	2		06/28/19 10:29	79-01-6	
Trichlorofluoromethane	<0.43	ug/L	2.0	0.43	2		06/28/19 10:29	75-69-4	
Vinyl chloride	2.5	ug/L	2.0	0.35	2		06/28/19 10:29	75-01-4	
cis-1,2-Dichloroethene	174	ug/L	2.0	0.54	2		06/28/19 10:29	156-59-2	
cis-1,3-Dichloropropene	<7.3	ug/L	24.2	7.3	2		06/28/19 10:29	10061-01-5	
m&p-Xylene	<0.93	ug/L	4.0	0.93	2		06/28/19 10:29	179601-23-1	
n-Butylbenzene	<1.4	ug/L	4.7	1.4	2		06/28/19 10:29	104-51-8	
n-Propylbenzene	<1.6	ug/L	10.0	1.6	2		06/28/19 10:29	103-65-1	
o-Xylene	<0.52	ug/L	2.0	0.52	2		06/28/19 10:29	95-47-6	
p-Isopropyltoluene	<1.6	ug/L	5.3	1.6	2		06/28/19 10:29	99-87-6	
sec-Butylbenzene	<1.7	ug/L	10.0	1.7	2		06/28/19 10:29	135-98-8	
tert-Butylbenzene	<0.61	ug/L	2.0	0.61	2		06/28/19 10:29	98-06-6	
trans-1,2-Dichloroethene	<2.2	ug/L	7.3	2.2	2		06/28/19 10:29	156-60-5	
trans-1,3-Dichloropropene	<8.7	ug/L	29.1	8.7	2		06/28/19 10:29	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98	%	70-130		2		06/28/19 10:29	460-00-4	
Dibromofluoromethane (S)	102	%	70-130		2		06/28/19 10:29	1868-53-7	
Toluene-d8 (S)	99	%	70-130		2		06/28/19 10:29	2037-26-5	

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## ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE  
Pace Project No.: 40189978

Sample: **RW-24** Lab ID: **40189978021** Collected: 06/21/19 14:45 Received: 06/22/19 09:30 Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		06/25/19 15:38	630-20-6	
1,1,1-Trichloroethane	426	ug/L	10.0	2.4	10		06/26/19 09:54	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		06/25/19 15:38	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		06/25/19 15:38	79-00-5	
1,1-Dichloroethane	115	ug/L	1.0	0.27	1		06/25/19 15:38	75-34-3	
1,1-Dichloroethene	50.8	ug/L	1.0	0.24	1		06/25/19 15:38	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		06/25/19 15:38	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		06/25/19 15:38	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		06/25/19 15:38	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/25/19 15:38	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		06/25/19 15:38	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		06/25/19 15:38	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		06/25/19 15:38	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		06/25/19 15:38	95-50-1	
1,2-Dichloroethane	0.49J	ug/L	1.0	0.28	1		06/25/19 15:38	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		06/25/19 15:38	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		06/25/19 15:38	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		06/25/19 15:38	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		06/25/19 15:38	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		06/25/19 15:38	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		06/25/19 15:38	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		06/25/19 15:38	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		06/25/19 15:38	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		06/25/19 15:38	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		06/25/19 15:38	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/25/19 15:38	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		06/25/19 15:38	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		06/25/19 15:38	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		06/25/19 15:38	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		06/25/19 15:38	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		06/25/19 15:38	108-90-7	
Chloroethane	9.5	ug/L	5.0	1.3	1		06/25/19 15:38	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		06/25/19 15:38	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		06/25/19 15:38	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		06/25/19 15:38	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		06/25/19 15:38	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		06/25/19 15:38	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		06/25/19 15:38	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		06/25/19 15:38	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		06/25/19 15:38	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		06/25/19 15:38	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		06/25/19 15:38	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		06/25/19 15:38	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		06/25/19 15:38	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		06/25/19 15:38	100-42-5	
Tetrachloroethene	0.97J	ug/L	1.1	0.33	1		06/25/19 15:38	127-18-4	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189978

**Sample: RW-24**      **Lab ID: 40189978021**      Collected: 06/21/19 14:45      Received: 06/22/19 09:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Toluene	<0.17	ug/L	5.0	0.17	1		06/25/19 15:38	108-88-3	
Trichloroethene	215	ug/L	1.0	0.26	1		06/25/19 15:38	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		06/25/19 15:38	75-69-4	
Vinyl chloride	27.6	ug/L	1.0	0.17	1		06/25/19 15:38	75-01-4	
cis-1,2-Dichloroethene	396	ug/L	10.0	2.7	10		06/26/19 09:54	156-59-2	L1
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		06/25/19 15:38	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		06/25/19 15:38	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		06/25/19 15:38	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		06/25/19 15:38	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		06/25/19 15:38	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		06/25/19 15:38	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		06/25/19 15:38	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		06/25/19 15:38	98-06-6	
trans-1,2-Dichloroethene	3.2J	ug/L	3.6	1.1	1		06/25/19 15:38	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		06/25/19 15:38	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	97	%	70-130		1		06/25/19 15:38	460-00-4	
Dibromofluoromethane (S)	114	%	70-130		1		06/25/19 15:38	1868-53-7	
Toluene-d8 (S)	96	%	70-130		1		06/25/19 15:38	2037-26-5	

**Sample: RW-8**      **Lab ID: 40189978022**      Collected: 06/21/19 13:27      Received: 06/22/19 09:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		06/25/19 16:00	630-20-6	
1,1,1-Trichloroethane	126	ug/L	1.0	0.24	1		06/25/19 16:00	71-55-6	
1,1,1,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		06/25/19 16:00	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		06/25/19 16:00	79-00-5	
1,1-Dichloroethane	33.5	ug/L	1.0	0.27	1		06/25/19 16:00	75-34-3	
1,1-Dichloroethene	4.7	ug/L	1.0	0.24	1		06/25/19 16:00	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		06/25/19 16:00	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		06/25/19 16:00	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		06/25/19 16:00	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/25/19 16:00	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		06/25/19 16:00	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		06/25/19 16:00	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		06/25/19 16:00	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		06/25/19 16:00	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		06/25/19 16:00	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		06/25/19 16:00	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		06/25/19 16:00	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		06/25/19 16:00	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		06/25/19 16:00	142-28-9	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189978

**Sample: RW-8**      **Lab ID: 40189978022**      Collected: 06/21/19 13:27      Received: 06/22/19 09:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		06/25/19 16:00	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		06/25/19 16:00	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		06/25/19 16:00	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		06/25/19 16:00	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		06/25/19 16:00	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		06/25/19 16:00	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/25/19 16:00	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		06/25/19 16:00	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		06/25/19 16:00	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		06/25/19 16:00	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		06/25/19 16:00	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		06/25/19 16:00	108-90-7	
Chloroethane	2.9J	ug/L	5.0	1.3	1		06/25/19 16:00	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		06/25/19 16:00	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		06/25/19 16:00	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		06/25/19 16:00	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		06/25/19 16:00	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		06/25/19 16:00	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		06/25/19 16:00	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		06/25/19 16:00	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		06/25/19 16:00	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		06/25/19 16:00	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		06/25/19 16:00	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		06/25/19 16:00	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		06/25/19 16:00	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		06/25/19 16:00	100-42-5	
Tetrachloroethene	0.76J	ug/L	1.1	0.33	1		06/25/19 16:00	127-18-4	
Toluene	<0.17	ug/L	5.0	0.17	1		06/25/19 16:00	108-88-3	
Trichloroethene	16.6	ug/L	1.0	0.26	1		06/25/19 16:00	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		06/25/19 16:00	75-69-4	
Vinyl chloride	21.5	ug/L	1.0	0.17	1		06/25/19 16:00	75-01-4	
cis-1,2-Dichloroethene	202	ug/L	1.0	0.27	1		06/25/19 16:00	156-59-2	L1
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		06/25/19 16:00	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		06/25/19 16:00	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		06/25/19 16:00	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		06/25/19 16:00	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		06/25/19 16:00	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		06/25/19 16:00	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		06/25/19 16:00	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		06/25/19 16:00	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		06/25/19 16:00	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		06/25/19 16:00	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	96	%	70-130		1		06/25/19 16:00	460-00-4	
Dibromofluoromethane (S)	117	%	70-130		1		06/25/19 16:00	1868-53-7	
Toluene-d8 (S)	95	%	70-130		1		06/25/19 16:00	2037-26-5	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189978

**Sample: TRIP**      **Lab ID: 40189978023**      Collected: 06/21/19 00:00      Received: 06/22/19 09:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
1,1,1,2-Tetrachloroethane	<0.27	ug/L	1.0	0.27	1		06/26/19 07:17	630-20-6	
1,1,1-Trichloroethane	<0.24	ug/L	1.0	0.24	1		06/26/19 07:17	71-55-6	
1,1,2,2-Tetrachloroethane	<0.28	ug/L	1.0	0.28	1		06/26/19 07:17	79-34-5	
1,1,2-Trichloroethane	<0.55	ug/L	5.0	0.55	1		06/26/19 07:17	79-00-5	
1,1-Dichloroethane	<0.27	ug/L	1.0	0.27	1		06/26/19 07:17	75-34-3	
1,1-Dichloroethene	<0.24	ug/L	1.0	0.24	1		06/26/19 07:17	75-35-4	
1,1-Dichloropropene	<0.54	ug/L	1.8	0.54	1		06/26/19 07:17	563-58-6	
1,2,3-Trichlorobenzene	<0.63	ug/L	5.0	0.63	1		06/26/19 07:17	87-61-6	
1,2,3-Trichloropropane	<0.59	ug/L	5.0	0.59	1		06/26/19 07:17	96-18-4	
1,2,4-Trichlorobenzene	<0.95	ug/L	5.0	0.95	1		06/26/19 07:17	120-82-1	
1,2,4-Trimethylbenzene	<0.84	ug/L	2.8	0.84	1		06/26/19 07:17	95-63-6	
1,2-Dibromo-3-chloropropane	<1.8	ug/L	5.9	1.8	1		06/26/19 07:17	96-12-8	
1,2-Dibromoethane (EDB)	<0.83	ug/L	2.8	0.83	1		06/26/19 07:17	106-93-4	
1,2-Dichlorobenzene	<0.71	ug/L	2.4	0.71	1		06/26/19 07:17	95-50-1	
1,2-Dichloroethane	<0.28	ug/L	1.0	0.28	1		06/26/19 07:17	107-06-2	
1,2-Dichloropropane	<0.28	ug/L	1.0	0.28	1		06/26/19 07:17	78-87-5	
1,3,5-Trimethylbenzene	<0.87	ug/L	2.9	0.87	1		06/26/19 07:17	108-67-8	
1,3-Dichlorobenzene	<0.63	ug/L	2.1	0.63	1		06/26/19 07:17	541-73-1	
1,3-Dichloropropane	<0.83	ug/L	2.8	0.83	1		06/26/19 07:17	142-28-9	
1,4-Dichlorobenzene	<0.94	ug/L	3.1	0.94	1		06/26/19 07:17	106-46-7	
2,2-Dichloropropane	<2.3	ug/L	7.6	2.3	1		06/26/19 07:17	594-20-7	
2-Chlorotoluene	<0.93	ug/L	5.0	0.93	1		06/26/19 07:17	95-49-8	
4-Chlorotoluene	<0.76	ug/L	2.5	0.76	1		06/26/19 07:17	106-43-4	
Benzene	<0.25	ug/L	1.0	0.25	1		06/26/19 07:17	71-43-2	
Bromobenzene	<0.24	ug/L	1.0	0.24	1		06/26/19 07:17	108-86-1	
Bromochloromethane	<0.36	ug/L	5.0	0.36	1		06/26/19 07:17	74-97-5	
Bromodichloromethane	<0.36	ug/L	1.2	0.36	1		06/26/19 07:17	75-27-4	
Bromoform	<4.0	ug/L	13.2	4.0	1		06/26/19 07:17	75-25-2	
Bromomethane	<0.97	ug/L	5.0	0.97	1		06/26/19 07:17	74-83-9	
Carbon tetrachloride	<0.17	ug/L	1.0	0.17	1		06/26/19 07:17	56-23-5	
Chlorobenzene	<0.71	ug/L	2.4	0.71	1		06/26/19 07:17	108-90-7	
Chloroethane	<1.3	ug/L	5.0	1.3	1		06/26/19 07:17	75-00-3	
Chloroform	<1.3	ug/L	5.0	1.3	1		06/26/19 07:17	67-66-3	
Chloromethane	<2.2	ug/L	7.3	2.2	1		06/26/19 07:17	74-87-3	
Dibromochloromethane	<2.6	ug/L	8.7	2.6	1		06/26/19 07:17	124-48-1	
Dibromomethane	<0.94	ug/L	3.1	0.94	1		06/26/19 07:17	74-95-3	
Dichlorodifluoromethane	<0.50	ug/L	5.0	0.50	1		06/26/19 07:17	75-71-8	
Diisopropyl ether	<1.9	ug/L	6.3	1.9	1		06/26/19 07:17	108-20-3	
Ethylbenzene	<0.22	ug/L	1.0	0.22	1		06/26/19 07:17	100-41-4	
Hexachloro-1,3-butadiene	<1.2	ug/L	5.0	1.2	1		06/26/19 07:17	87-68-3	
Isopropylbenzene (Cumene)	<0.39	ug/L	5.0	0.39	1		06/26/19 07:17	98-82-8	
Methyl-tert-butyl ether	<1.2	ug/L	4.2	1.2	1		06/26/19 07:17	1634-04-4	
Methylene Chloride	<0.58	ug/L	5.0	0.58	1		06/26/19 07:17	75-09-2	
Naphthalene	<1.2	ug/L	5.0	1.2	1		06/26/19 07:17	91-20-3	
Styrene	<0.47	ug/L	1.6	0.47	1		06/26/19 07:17	100-42-5	
Tetrachloroethene	<0.33	ug/L	1.1	0.33	1		06/26/19 07:17	127-18-4	

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### ANALYTICAL RESULTS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189978

**Sample: TRIP**      **Lab ID: 40189978023**      Collected: 06/21/19 00:00      Received: 06/22/19 09:30      Matrix: Water

Parameters	Results	Units	LOQ	LOD	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>									
Analytical Method: EPA 8260									
Toluene	<0.17	ug/L	5.0	0.17	1		06/26/19 07:17	108-88-3	
Trichloroethene	<0.26	ug/L	1.0	0.26	1		06/26/19 07:17	79-01-6	
Trichlorofluoromethane	<0.21	ug/L	1.0	0.21	1		06/26/19 07:17	75-69-4	
Vinyl chloride	<0.17	ug/L	1.0	0.17	1		06/26/19 07:17	75-01-4	
cis-1,2-Dichloroethene	<0.27	ug/L	1.0	0.27	1		06/26/19 07:17	156-59-2	L1
cis-1,3-Dichloropropene	<3.6	ug/L	12.1	3.6	1		06/26/19 07:17	10061-01-5	
m&p-Xylene	<0.47	ug/L	2.0	0.47	1		06/26/19 07:17	179601-23-1	
n-Butylbenzene	<0.71	ug/L	2.4	0.71	1		06/26/19 07:17	104-51-8	
n-Propylbenzene	<0.81	ug/L	5.0	0.81	1		06/26/19 07:17	103-65-1	
o-Xylene	<0.26	ug/L	1.0	0.26	1		06/26/19 07:17	95-47-6	
p-Isopropyltoluene	<0.80	ug/L	2.7	0.80	1		06/26/19 07:17	99-87-6	
sec-Butylbenzene	<0.85	ug/L	5.0	0.85	1		06/26/19 07:17	135-98-8	
tert-Butylbenzene	<0.30	ug/L	1.0	0.30	1		06/26/19 07:17	98-06-6	
trans-1,2-Dichloroethene	<1.1	ug/L	3.6	1.1	1		06/26/19 07:17	156-60-5	
trans-1,3-Dichloropropene	<4.4	ug/L	14.6	4.4	1		06/26/19 07:17	10061-02-6	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	94	%	70-130		1		06/26/19 07:17	460-00-4	
Dibromofluoromethane (S)	94	%	70-130		1		06/26/19 07:17	1868-53-7	
Toluene-d8 (S)	104	%	70-130		1		06/26/19 07:17	2037-26-5	

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### QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189978

QC Batch: 326290 Analysis Method: EPA 8015B Modified  
 QC Batch Method: EPA 8015B Modified Analysis Description: Methane, Ethane, Ethene GCV  
 Associated Lab Samples: 40189978005, 40189978010

METHOD BLANK: 1894751 Matrix: Water

Associated Lab Samples: 40189978005, 40189978010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethane	ug/L	<0.58	5.6	07/02/19 09:02	
Ethene	ug/L	<0.52	5.0	07/02/19 09:02	

LABORATORY CONTROL SAMPLE & LCSD: 1894752 1894753

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Ethane	ug/L	53.6	52.1	52.2	97	97	80-120	0	20	
Ethene	ug/L	50	48.0	48.0	96	96	80-120	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1894754 1894755

Parameter	Units	40189974020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Ethane	ug/L	<14.4	1340	1340	1260	1330	94	99	80-120	5	20	
Ethene	ug/L	<13.1	1250	1250	1140	1210	91	97	80-120	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.

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189978

QC Batch:	325662	Analysis Method:	EPA 6010
QC Batch Method:	EPA 6010	Analysis Description:	ICP Metals, Trace, Dissolved
Associated Lab Samples:	40189978005, 40189978010		

METHOD BLANK: 1890747 Matrix: Water

Associated Lab Samples: 40189978005, 40189978010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Iron, Dissolved	ug/L	<35.4	118	06/25/19 22:23	
Manganese, Dissolved	ug/L	<1.1	5.0	06/25/19 22:23	

LABORATORY CONTROL SAMPLE: 1890748

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Iron, Dissolved	ug/L	5000	4480	90	80-120	
Manganese, Dissolved	ug/L	500	456	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1890749 1890750

Parameter	Units	40189699002		1890750		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Iron, Dissolved	ug/L	7020	5000	5000	11400	11400	87	87	75-125	0	20
Manganese, Dissolved	ug/L	2260	500	500	2680	2670	84	82	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.: 40189978

QC Batch: 325412 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV  
Associated Lab Samples: 40189978001, 40189978003, 40189978005, 40189978006, 40189978007, 40189978008, 40189978010

METHOD BLANK: 1889653 Matrix: Water  
Associated Lab Samples: 40189978001, 40189978003, 40189978005, 40189978006, 40189978007, 40189978008, 40189978010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	06/25/19 07:55	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	06/25/19 07:55	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	06/25/19 07:55	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	06/25/19 07:55	
1,1-Dichloroethane	ug/L	<0.27	1.0	06/25/19 07:55	
1,1-Dichloroethene	ug/L	<0.24	1.0	06/25/19 07:55	
1,1-Dichloropropene	ug/L	<0.54	1.8	06/25/19 07:55	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	06/25/19 07:55	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	06/25/19 07:55	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	06/25/19 07:55	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	06/25/19 07:55	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	06/25/19 07:55	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	06/25/19 07:55	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	06/25/19 07:55	
1,2-Dichloroethane	ug/L	<0.28	1.0	06/25/19 07:55	
1,2-Dichloropropane	ug/L	<0.28	1.0	06/25/19 07:55	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	06/25/19 07:55	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	06/25/19 07:55	
1,3-Dichloropropane	ug/L	<0.83	2.8	06/25/19 07:55	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	06/25/19 07:55	
2,2-Dichloropropane	ug/L	<2.3	7.6	06/25/19 07:55	
2-Chlorotoluene	ug/L	<0.93	5.0	06/25/19 07:55	
4-Chlorotoluene	ug/L	<0.76	2.5	06/25/19 07:55	
Benzene	ug/L	<0.25	1.0	06/25/19 07:55	
Bromobenzene	ug/L	<0.24	1.0	06/25/19 07:55	
Bromochloromethane	ug/L	<0.36	5.0	06/25/19 07:55	
Bromodichloromethane	ug/L	<0.36	1.2	06/25/19 07:55	
Bromoform	ug/L	<4.0	13.2	06/25/19 07:55	
Bromomethane	ug/L	<0.97	5.0	06/25/19 07:55	
Carbon tetrachloride	ug/L	<0.17	1.0	06/25/19 07:55	
Chlorobenzene	ug/L	<0.71	2.4	06/25/19 07:55	
Chloroethane	ug/L	<1.3	5.0	06/25/19 07:55	
Chloroform	ug/L	<1.3	5.0	06/25/19 07:55	
Chloromethane	ug/L	<2.2	7.3	06/25/19 07:55	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	06/25/19 07:55	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	06/25/19 07:55	
Dibromochloromethane	ug/L	<2.6	8.7	06/25/19 07:55	
Dibromomethane	ug/L	<0.94	3.1	06/25/19 07:55	
Dichlorodifluoromethane	ug/L	<0.50	5.0	06/25/19 07:55	
Diisopropyl ether	ug/L	<1.9	6.3	06/25/19 07:55	
Ethylbenzene	ug/L	<0.22	1.0	06/25/19 07:55	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189978

METHOD BLANK: 1889653

Matrix: Water

Associated Lab Samples: 40189978001, 40189978003, 40189978005, 40189978006, 40189978007, 40189978008, 40189978010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	06/25/19 07:55	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	06/25/19 07:55	
m&p-Xylene	ug/L	<0.47	2.0	06/25/19 07:55	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	06/25/19 07:55	
Methylene Chloride	ug/L	<0.58	5.0	06/25/19 07:55	
n-Butylbenzene	ug/L	<0.71	2.4	06/25/19 07:55	
n-Propylbenzene	ug/L	<0.81	5.0	06/25/19 07:55	
Naphthalene	ug/L	<1.2	5.0	06/25/19 07:55	
o-Xylene	ug/L	<0.26	1.0	06/25/19 07:55	
p-Isopropyltoluene	ug/L	<0.80	2.7	06/25/19 07:55	
sec-Butylbenzene	ug/L	<0.85	5.0	06/25/19 07:55	
Styrene	ug/L	<0.47	1.6	06/25/19 07:55	
tert-Butylbenzene	ug/L	<0.30	1.0	06/25/19 07:55	
Tetrachloroethene	ug/L	<0.33	1.1	06/25/19 07:55	
Toluene	ug/L	<0.17	5.0	06/25/19 07:55	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	06/25/19 07:55	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	06/25/19 07:55	
Trichloroethene	ug/L	<0.26	1.0	06/25/19 07:55	
Trichlorofluoromethane	ug/L	<0.21	1.0	06/25/19 07:55	
Vinyl chloride	ug/L	<0.17	1.0	06/25/19 07:55	
4-Bromofluorobenzene (S)	%	97	70-130	06/25/19 07:55	
Dibromofluoromethane (S)	%	98	70-130	06/25/19 07:55	
Toluene-d8 (S)	%	100	70-130	06/25/19 07:55	

LABORATORY CONTROL SAMPLE: 1889654

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	49.3	99	70-130	
1,1,1,2-Tetrachloroethane	ug/L	50	48.9	98	70-130	
1,1,2-Trichloroethane	ug/L	50	48.0	96	70-130	
1,1-Dichloroethane	ug/L	50	49.3	99	73-150	
1,1-Dichloroethene	ug/L	50	50.6	101	73-138	
1,2,4-Trichlorobenzene	ug/L	50	50.1	100	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	45.4	91	64-129	
1,2-Dibromoethane (EDB)	ug/L	50	48.3	97	70-130	
1,2-Dichlorobenzene	ug/L	50	49.7	99	70-130	
1,2-Dichloroethane	ug/L	50	48.4	97	75-140	
1,2-Dichloropropane	ug/L	50	47.7	95	73-135	
1,3-Dichlorobenzene	ug/L	50	49.9	100	70-130	
1,4-Dichlorobenzene	ug/L	50	48.7	97	70-130	
Benzene	ug/L	50	48.9	98	70-130	
Bromodichloromethane	ug/L	50	47.0	94	70-130	
Bromoform	ug/L	50	40.7	81	68-129	
Bromomethane	ug/L	50	45.3	91	18-159	

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### QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189978

LABORATORY CONTROL SAMPLE: 1889654

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	43.3	87	70-130	
Chlorobenzene	ug/L	50	49.5	99	70-130	
Chloroethane	ug/L	50	42.6	85	53-147	
Chloroform	ug/L	50	45.8	92	74-136	
Chloromethane	ug/L	50	42.2	84	29-115	
cis-1,2-Dichloroethene	ug/L	50	47.8	96	70-130	
cis-1,3-Dichloropropene	ug/L	50	47.3	95	70-130	
Dibromochloromethane	ug/L	50	50.8	102	70-130	
Dichlorodifluoromethane	ug/L	50	37.5	75	10-130	
Ethylbenzene	ug/L	50	51.8	104	80-124	
Isopropylbenzene (Cumene)	ug/L	50	52.1	104	70-130	
m&p-Xylene	ug/L	100	103	103	70-130	
Methyl-tert-butyl ether	ug/L	50	45.7	91	54-137	
Methylene Chloride	ug/L	50	48.1	96	73-138	
o-Xylene	ug/L	50	50.1	100	70-130	
Styrene	ug/L	50	51.1	102	70-130	
Tetrachloroethene	ug/L	50	49.8	100	70-130	
Toluene	ug/L	50	50.0	100	80-126	
trans-1,2-Dichloroethene	ug/L	50	50.0	100	73-145	
trans-1,3-Dichloropropene	ug/L	50	44.3	89	70-130	
Trichloroethene	ug/L	50	49.4	99	70-130	
Trichlorofluoromethane	ug/L	50	51.3	103	76-147	
Vinyl chloride	ug/L	50	46.4	93	51-120	
4-Bromofluorobenzene (S)	%			99	70-130	
Dibromofluoromethane (S)	%			100	70-130	
Toluene-d8 (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1890180 1890181

Parameter	Units	40189978010		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec					
1,1,1-Trichloroethane	ug/L	188	5000	5000	5260	5230	101	101	70-130	1	20		
1,1,2,2-Tetrachloroethane	ug/L	<0.28	5000	5000	4910	4850	98	97	70-130	1	20		
1,1,2-Trichloroethane	ug/L	<0.55	5000	5000	4930	4820	99	96	70-137	2	20		
1,1-Dichloroethane	ug/L	58.5	5000	5000	5120	5090	101	101	73-153	1	20		
1,1-Dichloroethene	ug/L	30.5	5000	5000	5260	5030	105	100	73-138	5	20		
1,2,4-Trichlorobenzene	ug/L	<0.95	5000	5000	5030	5010	101	100	70-130	0	20		
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5000	5000	4290	4470	86	89	58-129	4	20		
1,2-Dibromoethane (EDB)	ug/L	<0.83	5000	5000	4880	4880	98	98	70-130	0	20		
1,2-Dichlorobenzene	ug/L	<0.71	5000	5000	5030	4920	101	98	70-130	2	20		
1,2-Dichloroethane	ug/L	<0.28	5000	5000	5020	4830	100	97	75-140	4	20		
1,2-Dichloropropane	ug/L	<0.28	5000	5000	4690	4740	94	95	71-138	1	20		
1,3-Dichlorobenzene	ug/L	<0.63	5000	5000	5050	5080	101	102	70-130	1	20		
1,4-Dichlorobenzene	ug/L	<0.94	5000	5000	4890	4890	98	98	70-130	0	20		

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### QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189978

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1890180 1890181												
Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		40189978010 Result	Spike Conc.	Spike Conc.	1890181 Result							
Benzene	ug/L	<0.25	5000	5000	5040	4910	101	98	70-130	3	20	
Bromodichloromethane	ug/L	<0.36	5000	5000	4740	4780	95	96	70-130	1	20	
Bromoform	ug/L	<4.0	5000	5000	4090	4070	82	81	68-129	0	20	
Bromomethane	ug/L	<0.97	5000	5000	4910	4960	98	99	15-170	1	20	
Carbon tetrachloride	ug/L	<0.17	5000	5000	4520	4460	90	89	70-130	1	20	
Chlorobenzene	ug/L	<0.71	5000	5000	5020	4980	100	100	70-130	1	20	
Chloroethane	ug/L	2.8J	5000	5000	4620	4440	92	89	51-148	4	20	
Chloroform	ug/L	<1.3	5000	5000	4770	4670	95	93	74-136	2	20	
Chloromethane	ug/L	<2.2	5000	5000	4220	4170	84	83	23-115	1	20	
cis-1,2-Dichloroethene	ug/L	130	5000	5000	5110	5030	100	98	70-131	2	20	
cis-1,3-Dichloropropene	ug/L	<3.6	5000	5000	4810	4790	96	96	70-130	0	20	
Dibromochloromethane	ug/L	<2.6	5000	5000	5080	5160	102	103	70-130	2	20	
Dichlorodifluoromethane	ug/L	<0.50	5000	5000	3670	3560	73	71	10-132	3	20	
Ethylbenzene	ug/L	<0.22	5000	5000	5210	5180	104	104	80-125	1	20	
Isopropylbenzene (Cumene)	ug/L	<0.39	5000	5000	5290	5260	106	105	70-130	1	20	
m&p-Xylene	ug/L	<0.47	10000	10000	10600	10400	106	104	70-130	1	20	
Methyl-tert-butyl ether	ug/L	<1.2	5000	5000	4700	4580	94	92	51-145	3	20	
Methylene Chloride	ug/L	<0.58	5000	5000	4970	4870	99	97	73-140	2	20	
o-Xylene	ug/L	<0.26	5000	5000	5120	5050	102	101	70-130	1	20	
Styrene	ug/L	<0.47	5000	5000	5170	5100	103	102	70-130	1	20	
Tetrachloroethene	ug/L	0.54J	5000	5000	5060	4970	101	99	70-130	2	20	
Toluene	ug/L	<0.17	5000	5000	4980	4950	100	99	80-131	1	20	
trans-1,2-Dichloroethene	ug/L	1.1J	5000	5000	5070	5020	101	100	73-148	1	20	
trans-1,3-Dichloropropene	ug/L	<4.4	5000	5000	4500	4400	90	88	70-130	2	20	
Trichloroethene	ug/L	77.8	5000	5000	5060	5070	100	100	70-130	0	20	
Trichlorofluoromethane	ug/L	<0.21	5000	5000	5290	5160	106	103	74-147	2	20	
Vinyl chloride	ug/L	4.9	5000	5000	4690	4660	94	93	41-129	1	20	
4-Bromofluorobenzene (S)	%						100	100	70-130			
Dibromofluoromethane (S)	%						102	102	70-130			
Toluene-d8 (S)	%						101	101	70-130			

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### QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189978

QC Batch: 325476 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV  
Associated Lab Samples: 40189978021, 40189978022, 40189978023

METHOD BLANK: 1889962 Matrix: Water

Associated Lab Samples: 40189978021, 40189978022, 40189978023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	06/25/19 07:05	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	06/25/19 07:05	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	06/25/19 07:05	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	06/25/19 07:05	
1,1-Dichloroethane	ug/L	<0.27	1.0	06/25/19 07:05	
1,1-Dichloroethene	ug/L	<0.24	1.0	06/25/19 07:05	
1,1-Dichloropropene	ug/L	<0.54	1.8	06/25/19 07:05	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	06/25/19 07:05	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	06/25/19 07:05	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	06/25/19 07:05	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	06/25/19 07:05	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	06/25/19 07:05	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	06/25/19 07:05	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	06/25/19 07:05	
1,2-Dichloroethane	ug/L	<0.28	1.0	06/25/19 07:05	
1,2-Dichloropropane	ug/L	<0.28	1.0	06/25/19 07:05	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	06/25/19 07:05	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	06/25/19 07:05	
1,3-Dichloropropane	ug/L	<0.83	2.8	06/25/19 07:05	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	06/25/19 07:05	
2,2-Dichloropropane	ug/L	<2.3	7.6	06/25/19 07:05	
2-Chlorotoluene	ug/L	<0.93	5.0	06/25/19 07:05	
4-Chlorotoluene	ug/L	<0.76	2.5	06/25/19 07:05	
Benzene	ug/L	<0.25	1.0	06/25/19 07:05	
Bromobenzene	ug/L	<0.24	1.0	06/25/19 07:05	
Bromochloromethane	ug/L	<0.36	5.0	06/25/19 07:05	
Bromodichloromethane	ug/L	<0.36	1.2	06/25/19 07:05	
Bromoform	ug/L	<4.0	13.2	06/25/19 07:05	
Bromomethane	ug/L	<0.97	5.0	06/25/19 07:05	
Carbon tetrachloride	ug/L	<0.17	1.0	06/25/19 07:05	
Chlorobenzene	ug/L	<0.71	2.4	06/25/19 07:05	
Chloroethane	ug/L	<1.3	5.0	06/25/19 07:05	
Chloroform	ug/L	<1.3	5.0	06/25/19 07:05	
Chloromethane	ug/L	<2.2	7.3	06/25/19 07:05	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	06/25/19 07:05	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	06/25/19 07:05	
Dibromochloromethane	ug/L	<2.6	8.7	06/25/19 07:05	
Dibromomethane	ug/L	<0.94	3.1	06/25/19 07:05	
Dichlorodifluoromethane	ug/L	<0.50	5.0	06/25/19 07:05	
Diisopropyl ether	ug/L	<1.9	6.3	06/25/19 07:05	
Ethylbenzene	ug/L	<0.22	1.0	06/25/19 07:05	

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### QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189978

METHOD BLANK: 1889962

Matrix: Water

Associated Lab Samples: 40189978021, 40189978022, 40189978023

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	06/25/19 07:05	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	06/25/19 07:05	
m&p-Xylene	ug/L	<0.47	2.0	06/25/19 07:05	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	06/25/19 07:05	
Methylene Chloride	ug/L	<0.58	5.0	06/25/19 07:05	
n-Butylbenzene	ug/L	<0.71	2.4	06/25/19 07:05	
n-Propylbenzene	ug/L	<0.81	5.0	06/25/19 07:05	
Naphthalene	ug/L	<1.2	5.0	06/25/19 07:05	
o-Xylene	ug/L	<0.26	1.0	06/25/19 07:05	
p-Isopropyltoluene	ug/L	<0.80	2.7	06/25/19 07:05	
sec-Butylbenzene	ug/L	<0.85	5.0	06/25/19 07:05	
Styrene	ug/L	<0.47	1.6	06/25/19 07:05	
tert-Butylbenzene	ug/L	<0.30	1.0	06/25/19 07:05	
Tetrachloroethene	ug/L	<0.33	1.1	06/25/19 07:05	
Toluene	ug/L	<0.17	5.0	06/25/19 07:05	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	06/25/19 07:05	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	06/25/19 07:05	
Trichloroethene	ug/L	<0.26	1.0	06/25/19 07:05	
Trichlorofluoromethane	ug/L	<0.21	1.0	06/25/19 07:05	
Vinyl chloride	ug/L	<0.17	1.0	06/25/19 07:05	
4-Bromofluorobenzene (S)	%	96	70-130	06/25/19 07:05	
Dibromofluoromethane (S)	%	116	70-130	06/25/19 07:05	
Toluene-d8 (S)	%	95	70-130	06/25/19 07:05	

LABORATORY CONTROL SAMPLE: 1889963

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	54.1	108	70-130	
1,1,1,2-Tetrachloroethane	ug/L	50	44.9	90	70-130	
1,1,2-Trichloroethane	ug/L	50	48.0	96	70-130	
1,1-Dichloroethane	ug/L	50	54.6	109	73-150	
1,1-Dichloroethene	ug/L	50	56.0	112	73-138	
1,2,4-Trichlorobenzene	ug/L	50	42.0	84	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	34.3	69	64-129	
1,2-Dibromoethane (EDB)	ug/L	50	44.7	89	70-130	
1,2-Dichlorobenzene	ug/L	50	46.2	92	70-130	
1,2-Dichloroethane	ug/L	50	54.4	109	75-140	
1,2-Dichloropropane	ug/L	50	54.6	109	73-135	
1,3-Dichlorobenzene	ug/L	50	46.4	93	70-130	
1,4-Dichlorobenzene	ug/L	50	47.5	95	70-130	
Benzene	ug/L	50	61.5	123	70-130	
Bromodichloromethane	ug/L	50	50.0	100	70-130	
Bromoform	ug/L	50	37.0	74	68-129	
Bromomethane	ug/L	50	46.1	92	18-159	

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### QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189978

LABORATORY CONTROL SAMPLE: 1889963

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	55.5	111	70-130	
Chlorobenzene	ug/L	50	48.8	98	70-130	
Chloroethane	ug/L	50	54.5	109	53-147	
Chloroform	ug/L	50	56.5	113	74-136	
Chloromethane	ug/L	50	46.1	92	29-115	
cis-1,2-Dichloroethene	ug/L	50	66.3	133	70-130	L1
cis-1,3-Dichloropropene	ug/L	50	46.7	93	70-130	
Dibromochloromethane	ug/L	50	43.7	87	70-130	
Dichlorodifluoromethane	ug/L	50	40.6	81	10-130	
Ethylbenzene	ug/L	50	50.9	102	80-124	
Isopropylbenzene (Cumene)	ug/L	50	49.9	100	70-130	
m&p-Xylene	ug/L	100	101	101	70-130	
Methyl-tert-butyl ether	ug/L	50	43.5	87	54-137	
Methylene Chloride	ug/L	50	55.7	111	73-138	
o-Xylene	ug/L	50	48.8	98	70-130	
Styrene	ug/L	50	50.4	101	70-130	
Tetrachloroethene	ug/L	50	47.6	95	70-130	
Toluene	ug/L	50	50.4	101	80-126	
trans-1,2-Dichloroethene	ug/L	50	54.7	109	73-145	
trans-1,3-Dichloropropene	ug/L	50	39.7	79	70-130	
Trichloroethene	ug/L	50	54.7	109	70-130	
Trichlorofluoromethane	ug/L	50	57.6	115	76-147	
Vinyl chloride	ug/L	50	51.7	103	51-120	
4-Bromofluorobenzene (S)	%			100	70-130	
Dibromofluoromethane (S)	%			114	70-130	
Toluene-d8 (S)	%			95	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.: 40189978

QC Batch: 325734 Analysis Method: EPA 8260  
 QC Batch Method: EPA 8260 Analysis Description: 8260 MSV  
 Associated Lab Samples: 40189978002, 40189978004, 40189978009, 40189978011, 40189978012, 40189978013, 40189978014,  
 40189978015, 40189978016, 40189978017

METHOD BLANK: 1891217 Matrix: Water  
 Associated Lab Samples: 40189978002, 40189978004, 40189978009, 40189978011, 40189978012, 40189978013, 40189978014,  
 40189978015, 40189978016, 40189978017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	06/26/19 17:19	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	06/26/19 17:19	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	06/26/19 17:19	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	06/26/19 17:19	
1,1-Dichloroethane	ug/L	<0.27	1.0	06/26/19 17:19	
1,1-Dichloroethene	ug/L	<0.24	1.0	06/26/19 17:19	
1,1-Dichloropropene	ug/L	<0.54	1.8	06/26/19 17:19	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	06/26/19 17:19	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	06/26/19 17:19	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	06/26/19 17:19	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	06/26/19 17:19	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	06/26/19 17:19	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	06/26/19 17:19	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	06/26/19 17:19	
1,2-Dichloroethane	ug/L	<0.28	1.0	06/26/19 17:19	
1,2-Dichloropropane	ug/L	<0.28	1.0	06/26/19 17:19	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	06/26/19 17:19	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	06/26/19 17:19	
1,3-Dichloropropane	ug/L	<0.83	2.8	06/26/19 17:19	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	06/26/19 17:19	
2,2-Dichloropropane	ug/L	<2.3	7.6	06/26/19 17:19	
2-Chlorotoluene	ug/L	<0.93	5.0	06/26/19 17:19	
4-Chlorotoluene	ug/L	<0.76	2.5	06/26/19 17:19	
Benzene	ug/L	<0.25	1.0	06/26/19 17:19	
Bromobenzene	ug/L	<0.24	1.0	06/26/19 17:19	
Bromochloromethane	ug/L	<0.36	5.0	06/26/19 17:19	
Bromodichloromethane	ug/L	<0.36	1.2	06/26/19 17:19	
Bromoform	ug/L	<4.0	13.2	06/26/19 17:19	
Bromomethane	ug/L	<0.97	5.0	06/26/19 17:19	
Carbon tetrachloride	ug/L	<0.17	1.0	06/26/19 17:19	
Chlorobenzene	ug/L	<0.71	2.4	06/26/19 17:19	
Chloroethane	ug/L	<1.3	5.0	06/26/19 17:19	
Chloroform	ug/L	<1.3	5.0	06/26/19 17:19	
Chloromethane	ug/L	<2.2	7.3	06/26/19 17:19	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	06/26/19 17:19	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	06/26/19 17:19	
Dibromochloromethane	ug/L	<2.6	8.7	06/26/19 17:19	
Dibromomethane	ug/L	<0.94	3.1	06/26/19 17:19	
Dichlorodifluoromethane	ug/L	<0.50	5.0	06/26/19 17:19	
Diisopropyl ether	ug/L	<1.9	6.3	06/26/19 17:19	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189978

METHOD BLANK: 1891217

Matrix: Water

Associated Lab Samples: 40189978002, 40189978004, 40189978009, 40189978011, 40189978012, 40189978013, 40189978014, 40189978015, 40189978016, 40189978017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Ethylbenzene	ug/L	<0.22	1.0	06/26/19 17:19	
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	06/26/19 17:19	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	06/26/19 17:19	
m&p-Xylene	ug/L	<0.47	2.0	06/26/19 17:19	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	06/26/19 17:19	
Methylene Chloride	ug/L	<0.58	5.0	06/26/19 17:19	
n-Butylbenzene	ug/L	<0.71	2.4	06/26/19 17:19	
n-Propylbenzene	ug/L	<0.81	5.0	06/26/19 17:19	
Naphthalene	ug/L	<1.2	5.0	06/26/19 17:19	
o-Xylene	ug/L	<0.26	1.0	06/26/19 17:19	
p-Isopropyltoluene	ug/L	<0.80	2.7	06/26/19 17:19	
sec-Butylbenzene	ug/L	<0.85	5.0	06/26/19 17:19	
Styrene	ug/L	<0.47	1.6	06/26/19 17:19	
tert-Butylbenzene	ug/L	<0.30	1.0	06/26/19 17:19	
Tetrachloroethene	ug/L	<0.33	1.1	06/26/19 17:19	
Toluene	ug/L	<0.17	5.0	06/26/19 17:19	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	06/26/19 17:19	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	06/26/19 17:19	
Trichloroethene	ug/L	<0.26	1.0	06/26/19 17:19	
Trichlorofluoromethane	ug/L	<0.21	1.0	06/26/19 17:19	
Vinyl chloride	ug/L	<0.17	1.0	06/26/19 17:19	
4-Bromofluorobenzene (S)	%	99	70-130	06/26/19 17:19	
Dibromofluoromethane (S)	%	97	70-130	06/26/19 17:19	
Toluene-d8 (S)	%	106	70-130	06/26/19 17:19	

LABORATORY CONTROL SAMPLE: 1891218

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	45.8	92	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	48.1	96	70-130	
1,1,2-Trichloroethane	ug/L	50	53.8	108	70-130	
1,1-Dichloroethane	ug/L	50	46.6	93	73-150	
1,1-Dichloroethene	ug/L	50	45.0	90	73-138	
1,2,4-Trichlorobenzene	ug/L	50	46.1	92	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	36.7	73	64-129	
1,2-Dibromoethane (EDB)	ug/L	50	45.9	92	70-130	
1,2-Dichlorobenzene	ug/L	50	47.2	94	70-130	
1,2-Dichloroethane	ug/L	50	46.7	93	75-140	
1,2-Dichloropropane	ug/L	50	55.4	111	73-135	
1,3-Dichlorobenzene	ug/L	50	47.5	95	70-130	
1,4-Dichlorobenzene	ug/L	50	48.2	96	70-130	
Benzene	ug/L	50	55.3	111	70-130	
Bromodichloromethane	ug/L	50	49.9	100	70-130	

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### QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189978

LABORATORY CONTROL SAMPLE: 1891218

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Bromoform	ug/L	50	39.9	80	68-129	
Bromomethane	ug/L	50	36.9	74	18-159	
Carbon tetrachloride	ug/L	50	44.3	89	70-130	
Chlorobenzene	ug/L	50	50.7	101	70-130	
Chloroethane	ug/L	50	46.3	93	53-147	
Chloroform	ug/L	50	49.5	99	74-136	
Chloromethane	ug/L	50	30.8	62	29-115	
cis-1,2-Dichloroethene	ug/L	50	56.1	112	70-130	
cis-1,3-Dichloropropene	ug/L	50	46.5	93	70-130	
Dibromochloromethane	ug/L	50	42.9	86	70-130	
Dichlorodifluoromethane	ug/L	50	28.2	56	10-130	
Ethylbenzene	ug/L	50	56.5	113	80-124	
Isopropylbenzene (Cumene)	ug/L	50	52.9	106	70-130	
m&p-Xylene	ug/L	100	105	105	70-130	
Methyl-tert-butyl ether	ug/L	50	38.2	76	54-137	
Methylene Chloride	ug/L	50	47.5	95	73-138	
o-Xylene	ug/L	50	51.2	102	70-130	
Styrene	ug/L	50	53.5	107	70-130	
Tetrachloroethene	ug/L	50	53.3	107	70-130	
Toluene	ug/L	50	56.1	112	80-126	
trans-1,2-Dichloroethene	ug/L	50	44.2	88	73-145	
trans-1,3-Dichloropropene	ug/L	50	43.9	88	70-130	
Trichloroethene	ug/L	50	52.9	106	70-130	
Trichlorofluoromethane	ug/L	50	45.8	92	76-147	
Vinyl chloride	ug/L	50	41.5	83	51-120	
4-Bromofluorobenzene (S)	%			103	70-130	
Dibromofluoromethane (S)	%			96	70-130	
Toluene-d8 (S)	%			107	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1891344 1891345

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40189978002 Result	Spike Conc.	Spike Conc.	Result								
1,1,1-Trichloroethane	ug/L	102	250	250	320	328	87	90	70-130	2	20		
1,1,2,2-Tetrachloroethane	ug/L	<1.4	250	250	242	253	97	101	70-130	4	20		
1,1,2-Trichloroethane	ug/L	<2.8	250	250	267	278	106	111	70-137	4	20		
1,1-Dichloroethane	ug/L	11.8	250	250	242	248	92	95	73-153	3	20		
1,1-Dichloroethene	ug/L	3.0J	250	250	224	232	89	92	73-138	3	20		
1,2,4-Trichlorobenzene	ug/L	<4.8	250	250	238	248	95	99	70-130	4	20		
1,2-Dibromo-3-chloropropane	ug/L	<8.8	250	250	194	208	78	83	58-129	7	20		
1,2-Dibromoethane (EDB)	ug/L	<4.1	250	250	229	240	91	96	70-130	5	20		
1,2-Dichlorobenzene	ug/L	<3.5	250	250	234	242	93	97	70-130	4	20		
1,2-Dichloroethane	ug/L	<1.4	250	250	226	241	90	96	75-140	6	20		
1,2-Dichloropropane	ug/L	<1.4	250	250	272	280	109	112	71-138	3	20		

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### QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189978

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1891344		1891345		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		40189978002 Result	MS Spike Conc.	MSD Spike Conc.									
1,3-Dichlorobenzene	ug/L	<3.1	250	250	234	243	94	97	70-130	4	20		
1,4-Dichlorobenzene	ug/L	<4.7	250	250	239	248	96	99	70-130	4	20		
Benzene	ug/L	<1.2	250	250	274	283	109	113	70-130	3	20		
Bromodichloromethane	ug/L	<1.8	250	250	247	255	99	102	70-130	3	20		
Bromoform	ug/L	<19.9	250	250	201	212	80	85	68-129	5	20		
Bromomethane	ug/L	<4.9	250	250	207	216	83	86	15-170	4	20		
Carbon tetrachloride	ug/L	<0.83	250	250	222	231	89	92	70-130	4	20		
Chlorobenzene	ug/L	<3.6	250	250	248	258	99	103	70-130	4	20		
Chloroethane	ug/L	<6.7	250	250	225	231	90	93	51-148	3	20		
Chloroform	ug/L	<6.4	250	250	245	252	98	101	74-136	3	20		
Chloromethane	ug/L	<10.9	250	250	150	148	60	59	23-115	2	20		
cis-1,2-Dichloroethene	ug/L	436	250	250	674	680	95	97	70-131	1	20		
cis-1,3-Dichloropropene	ug/L	<18.1	250	250	236	243	94	97	70-130	3	20		
Dibromochloromethane	ug/L	<13.0	250	250	214	223	85	89	70-130	4	20		
Dichlorodifluoromethane	ug/L	<2.5	250	250	123	127	49	51	10-132	3	20		
Ethylbenzene	ug/L	<1.1	250	250	277	288	111	115	80-125	4	20		
Isopropylbenzene (Cumene)	ug/L	<2.0	250	250	259	269	103	108	70-130	4	20		
m&p-Xylene	ug/L	<2.3	500	500	512	534	102	107	70-130	4	20		
Methyl-tert-butyl ether	ug/L	<6.2	250	250	193	201	77	80	51-145	4	20		
Methylene Chloride	ug/L	<2.9	250	250	235	242	94	97	73-140	3	20		
o-Xylene	ug/L	<1.3	250	250	248	259	99	104	70-130	4	20		
Styrene	ug/L	<2.3	250	250	257	268	103	107	70-130	4	20		
Tetrachloroethene	ug/L	<1.6	250	250	263	273	105	109	70-130	4	20		
Toluene	ug/L	<0.86	250	250	274	284	110	113	80-131	4	20		
trans-1,2-Dichloroethene	ug/L	<5.5	250	250	223	229	87	90	73-148	3	20		
trans-1,3-Dichloropropene	ug/L	<21.9	250	250	223	232	89	93	70-130	4	20		
Trichloroethene	ug/L	369	250	250	591	595	89	90	70-130	1	20		
Trichlorofluoromethane	ug/L	<1.1	250	250	224	230	89	92	74-147	3	20		
Vinyl chloride	ug/L	11.8	250	250	207	213	78	81	41-129	3	20		
4-Bromofluorobenzene (S)	%						102	103	70-130				
Dibromofluoromethane (S)	%						97	97	70-130				
Toluene-d8 (S)	%						106	106	70-130				

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### QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE  
Pace Project No.: 40189978

QC Batch: 325766 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV  
Associated Lab Samples: 40189978019

METHOD BLANK: 1891371 Matrix: Water  
Associated Lab Samples: 40189978019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	06/27/19 06:48	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	06/27/19 06:48	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	06/27/19 06:48	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	06/27/19 06:48	
1,1-Dichloroethane	ug/L	<0.27	1.0	06/27/19 06:48	
1,1-Dichloroethene	ug/L	<0.24	1.0	06/27/19 06:48	
1,1-Dichloropropene	ug/L	<0.54	1.8	06/27/19 06:48	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	06/27/19 06:48	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	06/27/19 06:48	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	06/27/19 06:48	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	06/27/19 06:48	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	06/27/19 06:48	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	06/27/19 06:48	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	06/27/19 06:48	
1,2-Dichloroethane	ug/L	<0.28	1.0	06/27/19 06:48	
1,2-Dichloropropane	ug/L	<0.28	1.0	06/27/19 06:48	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	06/27/19 06:48	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	06/27/19 06:48	
1,3-Dichloropropane	ug/L	<0.83	2.8	06/27/19 06:48	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	06/27/19 06:48	
2,2-Dichloropropane	ug/L	<2.3	7.6	06/27/19 06:48	
2-Chlorotoluene	ug/L	<0.93	5.0	06/27/19 06:48	
4-Chlorotoluene	ug/L	<0.76	2.5	06/27/19 06:48	
Benzene	ug/L	<0.25	1.0	06/27/19 06:48	
Bromobenzene	ug/L	<0.24	1.0	06/27/19 06:48	
Bromochloromethane	ug/L	<0.36	5.0	06/27/19 06:48	
Bromodichloromethane	ug/L	<0.36	1.2	06/27/19 06:48	
Bromoform	ug/L	<4.0	13.2	06/27/19 06:48	
Bromomethane	ug/L	<0.97	5.0	06/27/19 06:48	
Carbon tetrachloride	ug/L	<0.17	1.0	06/27/19 06:48	
Chlorobenzene	ug/L	<0.71	2.4	06/27/19 06:48	
Chloroethane	ug/L	<1.3	5.0	06/27/19 06:48	
Chloroform	ug/L	<1.3	5.0	06/27/19 06:48	
Chloromethane	ug/L	<2.2	7.3	06/27/19 06:48	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	06/27/19 06:48	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	06/27/19 06:48	
Dibromochloromethane	ug/L	<2.6	8.7	06/27/19 06:48	
Dibromomethane	ug/L	<0.94	3.1	06/27/19 06:48	
Dichlorodifluoromethane	ug/L	<0.50	5.0	06/27/19 06:48	
Diisopropyl ether	ug/L	<1.9	6.3	06/27/19 06:48	
Ethylbenzene	ug/L	<0.22	1.0	06/27/19 06:48	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189978

METHOD BLANK: 1891371

Matrix: Water

Associated Lab Samples: 40189978019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	06/27/19 06:48	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	06/27/19 06:48	
m&p-Xylene	ug/L	<0.47	2.0	06/27/19 06:48	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	06/27/19 06:48	
Methylene Chloride	ug/L	<0.58	5.0	06/27/19 06:48	
n-Butylbenzene	ug/L	<0.71	2.4	06/27/19 06:48	
n-Propylbenzene	ug/L	<0.81	5.0	06/27/19 06:48	
Naphthalene	ug/L	<1.2	5.0	06/27/19 06:48	
o-Xylene	ug/L	<0.26	1.0	06/27/19 06:48	
p-Isopropyltoluene	ug/L	<0.80	2.7	06/27/19 06:48	
sec-Butylbenzene	ug/L	<0.85	5.0	06/27/19 06:48	
Styrene	ug/L	<0.47	1.6	06/27/19 06:48	
tert-Butylbenzene	ug/L	<0.30	1.0	06/27/19 06:48	
Tetrachloroethene	ug/L	<0.33	1.1	06/27/19 06:48	
Toluene	ug/L	<0.17	5.0	06/27/19 06:48	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	06/27/19 06:48	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	06/27/19 06:48	
Trichloroethene	ug/L	<0.26	1.0	06/27/19 06:48	
Trichlorofluoromethane	ug/L	<0.21	1.0	06/27/19 06:48	
Vinyl chloride	ug/L	<0.17	1.0	06/27/19 06:48	
4-Bromofluorobenzene (S)	%	87	70-130	06/27/19 06:48	
Dibromofluoromethane (S)	%	99	70-130	06/27/19 06:48	
Toluene-d8 (S)	%	98	70-130	06/27/19 06:48	

LABORATORY CONTROL SAMPLE: 1891372

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	51.4	103	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	48.3	97	70-130	
1,1,2-Trichloroethane	ug/L	50	51.5	103	70-130	
1,1-Dichloroethane	ug/L	50	47.5	95	73-150	
1,1-Dichloroethene	ug/L	50	47.3	95	73-138	
1,2,4-Trichlorobenzene	ug/L	50	44.0	88	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	46.9	94	64-129	
1,2-Dibromoethane (EDB)	ug/L	50	51.0	102	70-130	
1,2-Dichlorobenzene	ug/L	50	53.1	106	70-130	
1,2-Dichloroethane	ug/L	50	48.0	96	75-140	
1,2-Dichloropropane	ug/L	50	50.0	100	73-135	
1,3-Dichlorobenzene	ug/L	50	52.1	104	70-130	
1,4-Dichlorobenzene	ug/L	50	53.7	107	70-130	
Benzene	ug/L	50	51.1	102	70-130	
Bromodichloromethane	ug/L	50	52.3	105	70-130	
Bromoform	ug/L	50	51.3	103	68-129	
Bromomethane	ug/L	50	23.9	48	18-159	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189978

LABORATORY CONTROL SAMPLE: 1891372

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	50.4	101	70-130	
Chlorobenzene	ug/L	50	52.7	105	70-130	
Chloroethane	ug/L	50	42.2	84	53-147	
Chloroform	ug/L	50	50.4	101	74-136	
Chloromethane	ug/L	50	39.0	78	29-115	
cis-1,2-Dichloroethene	ug/L	50	46.1	92	70-130	
cis-1,3-Dichloropropene	ug/L	50	48.9	98	70-130	
Dibromochloromethane	ug/L	50	51.8	104	70-130	
Dichlorodifluoromethane	ug/L	50	29.0	58	10-130	
Ethylbenzene	ug/L	50	56.8	114	80-124	
Isopropylbenzene (Cumene)	ug/L	50	59.1	118	70-130	
m&p-Xylene	ug/L	100	119	119	70-130	
Methyl-tert-butyl ether	ug/L	50	43.6	87	54-137	
Methylene Chloride	ug/L	50	45.9	92	73-138	
o-Xylene	ug/L	50	56.5	113	70-130	
Styrene	ug/L	50	53.0	106	70-130	
Tetrachloroethene	ug/L	50	51.9	104	70-130	
Toluene	ug/L	50	52.4	105	80-126	
trans-1,2-Dichloroethene	ug/L	50	48.1	96	73-145	
trans-1,3-Dichloropropene	ug/L	50	48.8	98	70-130	
Trichloroethene	ug/L	50	52.5	105	70-130	
Trichlorofluoromethane	ug/L	50	48.7	97	76-147	
Vinyl chloride	ug/L	50	41.9	84	51-120	
4-Bromofluorobenzene (S)	%			100	70-130	
Dibromofluoromethane (S)	%			96	70-130	
Toluene-d8 (S)	%			93	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.: 40189978

QC Batch: 325948 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV  
Associated Lab Samples: 40189978018, 40189978020

METHOD BLANK: 1892474 Matrix: Water

Associated Lab Samples: 40189978018, 40189978020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<0.27	1.0	06/28/19 06:33	
1,1,1-Trichloroethane	ug/L	<0.24	1.0	06/28/19 06:33	
1,1,2,2-Tetrachloroethane	ug/L	<0.28	1.0	06/28/19 06:33	
1,1,2-Trichloroethane	ug/L	<0.55	5.0	06/28/19 06:33	
1,1-Dichloroethane	ug/L	<0.27	1.0	06/28/19 06:33	
1,1-Dichloroethene	ug/L	<0.24	1.0	06/28/19 06:33	
1,1-Dichloropropene	ug/L	<0.54	1.8	06/28/19 06:33	
1,2,3-Trichlorobenzene	ug/L	<0.63	5.0	06/28/19 06:33	
1,2,3-Trichloropropane	ug/L	<0.59	5.0	06/28/19 06:33	
1,2,4-Trichlorobenzene	ug/L	<0.95	5.0	06/28/19 06:33	
1,2,4-Trimethylbenzene	ug/L	<0.84	2.8	06/28/19 06:33	
1,2-Dibromo-3-chloropropane	ug/L	<1.8	5.9	06/28/19 06:33	
1,2-Dibromoethane (EDB)	ug/L	<0.83	2.8	06/28/19 06:33	
1,2-Dichlorobenzene	ug/L	<0.71	2.4	06/28/19 06:33	
1,2-Dichloroethane	ug/L	<0.28	1.0	06/28/19 06:33	
1,2-Dichloropropane	ug/L	<0.28	1.0	06/28/19 06:33	
1,3,5-Trimethylbenzene	ug/L	<0.87	2.9	06/28/19 06:33	
1,3-Dichlorobenzene	ug/L	<0.63	2.1	06/28/19 06:33	
1,3-Dichloropropane	ug/L	<0.83	2.8	06/28/19 06:33	
1,4-Dichlorobenzene	ug/L	<0.94	3.1	06/28/19 06:33	
2,2-Dichloropropane	ug/L	<2.3	7.6	06/28/19 06:33	
2-Chlorotoluene	ug/L	<0.93	5.0	06/28/19 06:33	
4-Chlorotoluene	ug/L	<0.76	2.5	06/28/19 06:33	
Benzene	ug/L	<0.25	1.0	06/28/19 06:33	
Bromobenzene	ug/L	<0.24	1.0	06/28/19 06:33	
Bromochloromethane	ug/L	<0.36	5.0	06/28/19 06:33	
Bromodichloromethane	ug/L	<0.36	1.2	06/28/19 06:33	
Bromoform	ug/L	<4.0	13.2	06/28/19 06:33	
Bromomethane	ug/L	<0.97	5.0	06/28/19 06:33	
Carbon tetrachloride	ug/L	<0.17	1.0	06/28/19 06:33	
Chlorobenzene	ug/L	<0.71	2.4	06/28/19 06:33	
Chloroethane	ug/L	<1.3	5.0	06/28/19 06:33	
Chloroform	ug/L	<1.3	5.0	06/28/19 06:33	
Chloromethane	ug/L	<2.2	7.3	06/28/19 06:33	
cis-1,2-Dichloroethene	ug/L	<0.27	1.0	06/28/19 06:33	
cis-1,3-Dichloropropene	ug/L	<3.6	12.1	06/28/19 06:33	
Dibromochloromethane	ug/L	<2.6	8.7	06/28/19 06:33	
Dibromomethane	ug/L	<0.94	3.1	06/28/19 06:33	
Dichlorodifluoromethane	ug/L	<0.50	5.0	06/28/19 06:33	
Diisopropyl ether	ug/L	<1.9	6.3	06/28/19 06:33	
Ethylbenzene	ug/L	<0.22	1.0	06/28/19 06:33	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189978

METHOD BLANK: 1892474

Matrix: Water

Associated Lab Samples: 40189978018, 40189978020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Hexachloro-1,3-butadiene	ug/L	<1.2	5.0	06/28/19 06:33	
Isopropylbenzene (Cumene)	ug/L	<0.39	5.0	06/28/19 06:33	
m&p-Xylene	ug/L	<0.47	2.0	06/28/19 06:33	
Methyl-tert-butyl ether	ug/L	<1.2	4.2	06/28/19 06:33	
Methylene Chloride	ug/L	<0.58	5.0	06/28/19 06:33	
n-Butylbenzene	ug/L	<0.71	2.4	06/28/19 06:33	
n-Propylbenzene	ug/L	<0.81	5.0	06/28/19 06:33	
Naphthalene	ug/L	<1.2	5.0	06/28/19 06:33	
o-Xylene	ug/L	<0.26	1.0	06/28/19 06:33	
p-Isopropyltoluene	ug/L	<0.80	2.7	06/28/19 06:33	
sec-Butylbenzene	ug/L	<0.85	5.0	06/28/19 06:33	
Styrene	ug/L	<0.47	1.6	06/28/19 06:33	
tert-Butylbenzene	ug/L	<0.30	1.0	06/28/19 06:33	
Tetrachloroethene	ug/L	<0.33	1.1	06/28/19 06:33	
Toluene	ug/L	<0.17	5.0	06/28/19 06:33	
trans-1,2-Dichloroethene	ug/L	<1.1	3.6	06/28/19 06:33	
trans-1,3-Dichloropropene	ug/L	<4.4	14.6	06/28/19 06:33	
Trichloroethene	ug/L	<0.26	1.0	06/28/19 06:33	
Trichlorofluoromethane	ug/L	<0.21	1.0	06/28/19 06:33	
Vinyl chloride	ug/L	<0.17	1.0	06/28/19 06:33	
4-Bromofluorobenzene (S)	%	98	70-130	06/28/19 06:33	
Dibromofluoromethane (S)	%	99	70-130	06/28/19 06:33	
Toluene-d8 (S)	%	101	70-130	06/28/19 06:33	

LABORATORY CONTROL SAMPLE: 1892475

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	48.5	97	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	45.9	92	70-130	
1,1,2-Trichloroethane	ug/L	50	48.8	98	70-130	
1,1-Dichloroethane	ug/L	50	48.3	97	73-150	
1,1-Dichloroethene	ug/L	50	50.1	100	73-138	
1,2,4-Trichlorobenzene	ug/L	50	47.0	94	70-130	
1,2-Dibromo-3-chloropropane	ug/L	50	44.7	89	64-129	
1,2-Dibromoethane (EDB)	ug/L	50	48.9	98	70-130	
1,2-Dichlorobenzene	ug/L	50	47.6	95	70-130	
1,2-Dichloroethane	ug/L	50	47.6	95	75-140	
1,2-Dichloropropane	ug/L	50	46.7	93	73-135	
1,3-Dichlorobenzene	ug/L	50	48.0	96	70-130	
1,4-Dichlorobenzene	ug/L	50	47.5	95	70-130	
Benzene	ug/L	50	48.2	96	70-130	
Bromodichloromethane	ug/L	50	47.3	95	70-130	
Bromoform	ug/L	50	43.4	87	68-129	
Bromomethane	ug/L	50	30.2	60	18-159	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189978

LABORATORY CONTROL SAMPLE: 1892475

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Carbon tetrachloride	ug/L	50	45.2	90	70-130	
Chlorobenzene	ug/L	50	48.7	97	70-130	
Chloroethane	ug/L	50	42.5	85	53-147	
Chloroform	ug/L	50	48.2	96	74-136	
Chloromethane	ug/L	50	37.4	75	29-115	
cis-1,2-Dichloroethene	ug/L	50	48.0	96	70-130	
cis-1,3-Dichloropropene	ug/L	50	47.5	95	70-130	
Dibromochloromethane	ug/L	50	49.9	100	70-130	
Dichlorodifluoromethane	ug/L	50	26.0	52	10-130	
Ethylbenzene	ug/L	50	49.5	99	80-124	
Isopropylbenzene (Cumene)	ug/L	50	51.0	102	70-130	
m&p-Xylene	ug/L	100	101	101	70-130	
Methyl-tert-butyl ether	ug/L	50	46.8	94	54-137	
Methylene Chloride	ug/L	50	48.5	97	73-138	
o-Xylene	ug/L	50	49.0	98	70-130	
Styrene	ug/L	50	50.1	100	70-130	
Tetrachloroethene	ug/L	50	48.1	96	70-130	
Toluene	ug/L	50	48.0	96	80-126	
trans-1,2-Dichloroethene	ug/L	50	49.7	99	73-145	
trans-1,3-Dichloropropene	ug/L	50	44.5	89	70-130	
Trichloroethene	ug/L	50	49.1	98	70-130	
Trichlorofluoromethane	ug/L	50	50.6	101	76-147	
Vinyl chloride	ug/L	50	41.8	84	51-120	
4-Bromofluorobenzene (S)	%			100	70-130	
Dibromofluoromethane (S)	%			101	70-130	
Toluene-d8 (S)	%			100	70-130	

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### QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189978

QC Batch: 325378

Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0

Analysis Description: 300.0 IC Anions

Associated Lab Samples: 40189978005, 40189978010

METHOD BLANK: 1889575

Matrix: Water

Associated Lab Samples: 40189978005, 40189978010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate as N	mg/L	<0.075	0.22	06/24/19 11:43	
Sulfate	mg/L	<1.0	3.0	06/24/19 11:43	

LABORATORY CONTROL SAMPLE: 1889576

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/L	1.5	1.6	107	90-110	
Sulfate	mg/L	20	21.2	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1889577 1889578

Parameter	Units	40189978005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Nitrate as N	mg/L	<0.38	7.5	7.5	7.4	7.4	98	98	90-110	0	15	
Sulfate	mg/L	82.2	100	100	178	178	96	96	90-110	0	15	

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### QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE  
Pace Project No.: 40189978

QC Batch: 325770 Analysis Method: EPA 310.2  
QC Batch Method: EPA 310.2 Analysis Description: 310.2 Alkalinity  
Associated Lab Samples: 40189978005, 40189978010

METHOD BLANK: 1891381 Matrix: Water  
Associated Lab Samples: 40189978005, 40189978010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	<7.0	23.5	06/27/19 08:28	

LABORATORY CONTROL SAMPLE: 1891382

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	100	89.9	90	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1891383 1891384

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		40189925006 Result	Spike Conc.	Spike Conc.	Result								
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	339	200	200	547	532	104	97	90-110	3	20		

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### QUALITY CONTROL DATA

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189978

QC Batch: 325852	Analysis Method: SM 5310C
QC Batch Method: SM 5310C	Analysis Description: 5310C Total Organic Carbon
Associated Lab Samples: 40189978010	

METHOD BLANK: 1891938 Matrix: Water

Associated Lab Samples: 40189978010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	<0.25	0.84	07/01/19 07:21	

LABORATORY CONTROL SAMPLE: 1891939

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	2.5	2.5	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1891940 1891941

Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		40190084001 Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Total Organic Carbon	mg/L	4.3	2	2	6.2	6.2	94	98	80-120	1	10		

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## QUALIFIERS

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189978

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### 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.

H1 Analysis conducted outside the recognized method holding time.

L1 Analyte recovery in the laboratory control sample (LCS) was above QC limits. Results may be biased high.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 20.0155935.01 TRENT TUBE

Pace Project No.: 40189978

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
40189978005	OP-2	EPA 8015B Modified	326290		
40189978010	OP-3	EPA 8015B Modified	326290		
40189978005	OP-2	EPA 6010	325662		
40189978010	OP-3	EPA 6010	325662		
40189978001	RW-20	EPA 8260	325412		
40189978002	RW-21	EPA 8260	325734		
40189978003	OP-1	EPA 8260	325412		
40189978004	RW-01	EPA 8260	325734		
40189978005	OP-2	EPA 8260	325412		
40189978006	RW-22	EPA 8260	325412		
40189978007	RW-2	EPA 8260	325412		
40189978008	RW-23	EPA 8260	325412		
40189978009	RW-3	EPA 8260	325734		
40189978010	OP-3	EPA 8260	325412		
40189978011	RW-26	EPA 8260	325734		
40189978012	MW-6A	EPA 8260	325734		
40189978013	MW-6	EPA 8260	325734		
40189978014	RW-6	EPA 8260	325734		
40189978015	OP-4	EPA 8260	325734		
40189978016	RW-25	EPA 8260	325734		
40189978017	RW-5	EPA 8260	325734		
40189978018	DUP-6	EPA 8260	325948		
40189978019	OP-5	EPA 8260	325766		
40189978020	RW-4	EPA 8260	325948		
40189978021	RW-24	EPA 8260	325476		
40189978022	RW-8	EPA 8260	325476		
40189978023	TRIP	EPA 8260	325476		
40189978005	OP-2	EPA 300.0	325378		
40189978010	OP-3	EPA 300.0	325378		
40189978005	OP-2	EPA 310.2	325770		
40189978010	OP-3	EPA 310.2	325770		
40189978010	OP-3	SM 5310C	325852		

### REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
without the written consent of Pace Analytical Services, LLC.

(Please Print Clearly)



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

Page 1 of 2  
40189978

# CHAIN OF CUSTODY

Preservation Codes  
 A=None B=HCL C=H2SO4 D=HNO3 E=DI 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	DISSOLVED Fe, Mn
Y	D	ETHANE, ETHANE
N	B	NITRATE/SULFATE
N	A	TOC
N	A	ALKALINITY

Quote #: \_\_\_\_\_

Mail To Contact: \_\_\_\_\_

Mail To Company: \_\_\_\_\_

Mail To Address: \_\_\_\_\_

Invoice To Contact: \_\_\_\_\_

Invoice To Company: \_\_\_\_\_

Invoice To Address: \_\_\_\_\_

Invoice To Phone: \_\_\_\_\_

CLIENT COMMENTS: \_\_\_\_\_

LAB COMMENTS (Lab Use Only): \_\_\_\_\_

Profile #: \_\_\_\_\_

Company Name: GZA GeoEnvironmental INC

Branch/Location: Waukesha

Project Contact: KEVIN HODDAR

Phone: 262-424-1761

Project Number: 20.6155925.01

Project Name: GREEN TURB

Project State: WI

Sampled By (Print): KEVIN OWENS

Sampled By (Sign): [Signature]

PO #: \_\_\_\_\_

Regulatory Program: \_\_\_\_\_

Data Package Options (billable)

EPA Level III

EPA Level IV

MSMSD (billable)

On your sample

NOT needed on your sample

Matrix Codes

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

PAGE LAB #	CLIENT FIELD ID	COLLECTION		MATRIX	ANALYSES REQUESTED	Y/N	Pick Letter	DATE	TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME	DATE/TIME
		DATE	TIME														
DD1	RW-20	6/21	0846	GA	NOI	N	B	6/21/19	1735	6/21/19	0930	6/21/19	0930	6/21/19	0930	6/21/19	0930
DD2	RW-21		1607			N											
DD3	OR-1		0936			N											
DD4	RW-01		1052			N											
DD5	OR-2		1149			N											
DD6	RW-22		1234			N											
DD7	RW-2		1314			N											
DD8	RW-23		1358			N											
DD9	RW-3		1440			N											
DD10	OR-3		1525			N											

Rush Turnaround Time Requested - Prelims (Rush TAT subject to approval/surcharge)

Date Needed: \_\_\_\_\_

Transmit Prelim Rush Results by (complete what you want): \_\_\_\_\_

Relinquished By: [Signature] Date/Time: 6/21/19 1735

Relinquished By: [Signature] Date/Time: 6/21/19 0930

Relinquished By: [Signature] Date/Time: 6/21/19 0930

Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Received By: [Signature] Date/Time: 6/21/19 0930

Received By: [Signature] Date/Time: 6/21/19 0930

Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Receipt Temp = 601 °C

Sample Receipt pH OK Adjusted

Coast Custody Seal Present / Not Present Intact / Not Intact

Pages on HOLD are subject to special pricing and release of liability

Version 6.0 06/04/06

ORIGINAL

(Please Print Clearly)

Company Name: Co ZA, Inc Environmental  
 Branch/Location: Madison  
 Project Contact: Kevin Helinger  
 Phone: 262-424-1761  
 Project Number: 20.0155935, 01  
 Project Name: Treat Tank  
 Project State: WI  
 Sampled By (Print): Alx Amulson  
 Sampled By (Sign): [Signature]  
 PO #: \_\_\_\_\_



### 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

Y/N	Pick Letter
N	IS

DATE	TIME	MATRIX
6/2/14	8:30	GW
	9:58	
	9:38	
	10:14	
	10:53	
	11:35	
	12:4	
	-	
	13:55	
	14:02	
	14:45	
	13:27	

CLIENT FIELD ID	DATE	TIME	MATRIX	Analyses Requested
B11				
012				
013				
014				
015				
016				
017				
018				
019				
020				
021				
022				
023				

Quote #: \_\_\_\_\_  
 Mail To Contact: \_\_\_\_\_  
 Mail To Company: \_\_\_\_\_  
 Mail To Address: \_\_\_\_\_  
 Invoice To Contact: \_\_\_\_\_  
 Invoice To Company: \_\_\_\_\_  
 Invoice To Address: \_\_\_\_\_  
 Invoice To Phone: \_\_\_\_\_  
 CLIENT COMMENTS: \_\_\_\_\_  
 LAB COMMENTS (Lab Use Only): \_\_\_\_\_  
 Profile #: \_\_\_\_\_


Relinquished By: [Signature] Date/Time: 6/2/14 13:20 Received By: [Signature] Date/Time: \_\_\_\_\_  
 Relinquished By: [Signature] Date/Time: 6/2/14 09:28 Received By: [Signature] Date/Time: 6/2/14 09:28  
 Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_  
 Relinquished By: \_\_\_\_\_ Date/Time: \_\_\_\_\_ Received By: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Special pricing and release of liability

PACE Project No: 40189978  
 Receipt Temp = 18.1 °C  
 Sample Receipt pH: OK Adjusted  
 Cooler Custody Seal: Present / Not Present  
 Intact / Not Intact





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

### Sample Condition Upon Receipt Form (SCUR)

Client Name: GZA

Project # **WO#: 40189978**

Courier:  CS Logistics  Fed Ex  Speedee  UPS  Walco  
 Client  Pace Other: \_\_\_\_\_



Tracking #: 8148 6939 6188

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: R01    ICorr: \_\_\_\_\_

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

Person examining contents:  
 Date: 6/22/19  
 Initials: DG

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 checked="" type="checkbox"/> Yes <input 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):		

Client Notification/ Resolution: \_\_\_\_\_ If checked, see attached form for additional comments

Person Contacted: Alex Amundson    Date/Time: 6/21/19

Comments/ Resolution: Per Alex, per 100% past hold due to United Lab start on weekend. Sample set up on 6/24/19 by Lab. 6/24/19 WRT

Project Manager Review: [Signature]

Date: 6/24/19

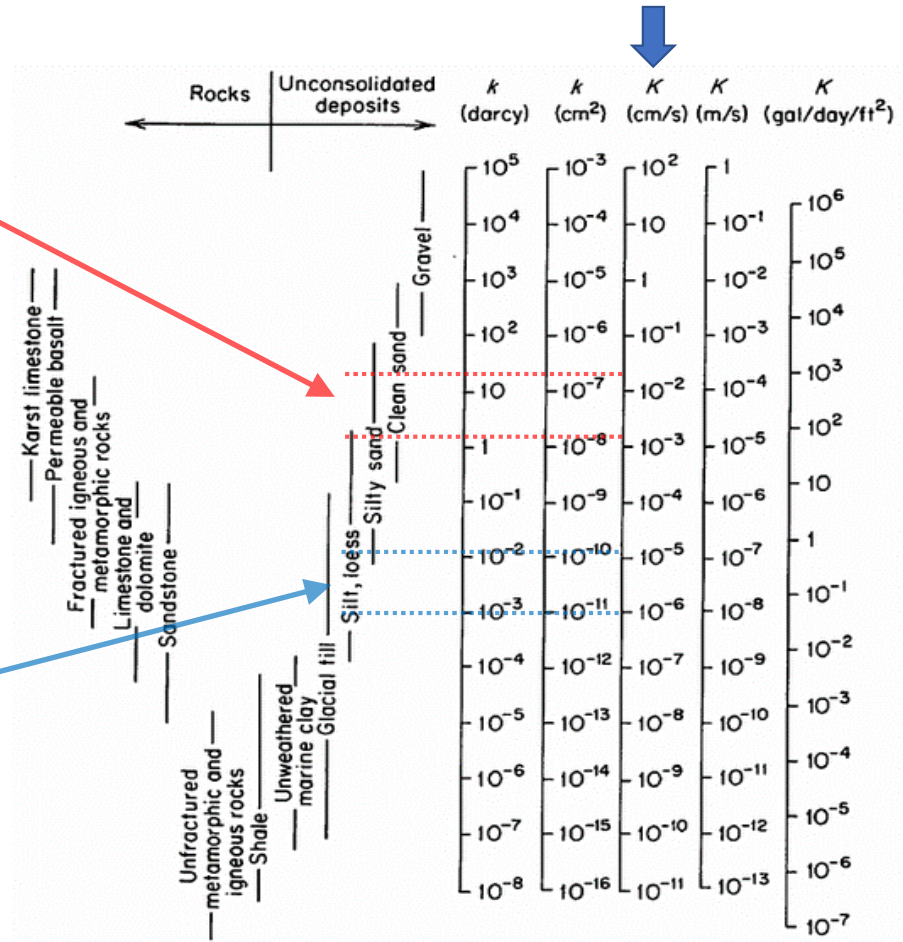


**ATTACHMENT 3**  
**In-situ Aquifer Test Data and Calculations**

**Summary of Slug Test Data  
Former Trent Tube Plant No. 1  
2188 Church Street  
East Troy, Wisconsin**

Well ID	K-Values (GZA) 2019	
	(ft/sec)	(cm/sec)
MW-1R	6.43E-05	1.96E-03
MW-2	1.38E-03	4.21E-02
MW-4	1.78E-04	5.43E-03
MW-6	2.38E-04	7.26E-03
MW-16	4.56E-04	1.39E-02
MW-17	1.01E-03	3.08E-02
MW-21	3.67E-04	1.12E-02
OP-2	3.97E-04	1.21E-02
ranged from	6.43E-05	1.96E-03
to	1.38E-03	4.21E-02
Geometric Mean =	3.55E-04	<b>1.08E-02</b>

Well ID	K-Values (Triad) 1999	
	(ft/sec)	(cm/sec)
MW-19	6.14E-08	1.87E-06
MW-20	3.43E-07	1.05E-05
MW-21	8.21E-07	2.50E-05
MW-22	9.31E-05	2.84E-03
ranged from	6.14E-08	1.87E-06
to	9.31E-05	2.84E-03
Geometric Mean =	1.13E-06	<b>3.44E-05</b>



ft/sec = feet per second  
 cm/sec = centimeters per second  
 K = hydraulic conductivity  
 MW = monitoring well

MW-21- Measured by both Triad and GZA



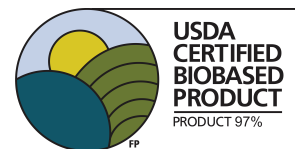


**ATTACHMENT 4**

**Injection Products Safety Data Sheets:**

**Newman Zone® 55**

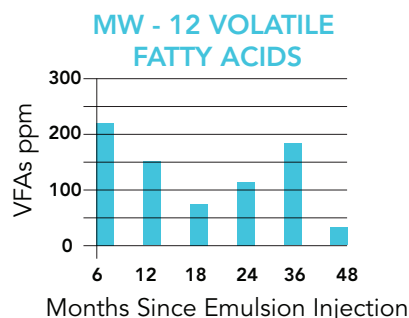
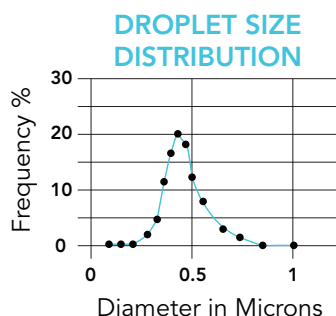
**Newman Zone OS™, SDC-9, TCA-20**



# Newman Zone 55™

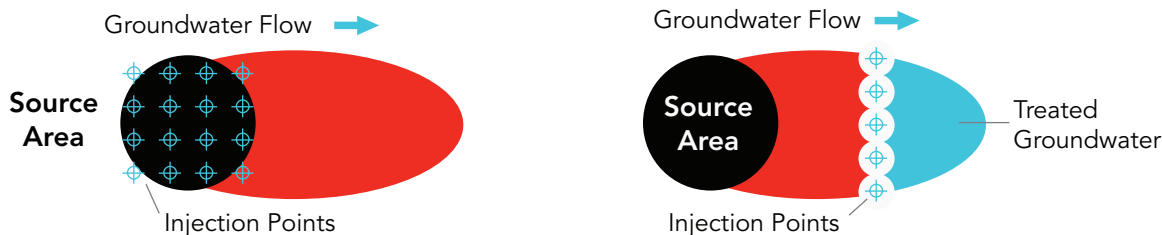
## A Balance Of Fast And Slow Release Electron Donors

Newman Zone® 55 is an electron donor for enhancing the in situ anaerobic bioremediation of chlorinated solvents, nitrated explosives (RDX, HMX, TNT), selected toxic metals (chrome VI), perchlorate and nitrate. Newman Zone® 55 has both fast and slow-release electron donors. Lactate stimulates microbial growth within hours of injection and rapidly produces anaerobic conditions in the subsurface. Vegetable oil droplets are retained on soil particles and slowly ferment to hydrogen and volatile fatty acids which support anaerobic biodegradation for as long as five years after injection.



## Application

Newman Zone® 55 emulsions contain approximately 60 percent vegetable oil by volume in concentrated form. The emulsion is usually diluted to 5 percent or less oil by volume prior to injection. After dilution the emulsion has a low viscosity similar to water allowing it to be applied by direct push injections, injection wells, water circulation systems and even direct application to source area excavations prior to backfilling. Common treatment configurations include an injection grid used to treat contaminant source areas and bio-barriers to treat dissolved plumes.



## Benefits – The Smallest Emulsion Droplet Size in the Industry

Newman Zone® 55 is an oil-in-water emulsion consisting of oil droplets between 0.15 and 0.60 microns in size with a median size of 0.30 microns. Our uniquely small oil droplet size maximizes mobility in silt and clay soils and allows for excellent stability when blended with oxygen scavengers, buffers and other amendments prior to injection. The large droplet emulsions provided by other companies can result in oil/water separation, limited distribution or reduced soil permeability.

## Experience – Over a Decade of Results From Millions of Pounds Delivered!

Newman Zone® was the first factory produced small droplet emulsified oil product on the market. Since the first production run in 2002 we have delivered millions of pounds of emulsion to thousands of sites around the world.

# Newman Zone 55

A Balance Of Fast And Slow Release Electron Donors

## Product Content

Chemical Name	CAS Number	Composition (%wt)
Soybean Oil (food grade)	8001-22-7	>55%
Sodium-L-Lactate	867-56-1	4%
Food Additives / Emulsifiers / Preservatives	Proprietary	<10%
Water		Balance

## Product Characteristics

Parameter	Unit	Specification
Density	g/cm <sup>3</sup>	0.98
Particle Size	µm	0.15 - 0.60
Flash Point	°F	>540 (closed cup)
Appearance		White opaque liquid

## Packaging

Newman Zone® 55 is available in 5-gallon pails (40 pounds net) and 275-gallon totes (2,100 pounds net). For large projects bulk emulsion can be delivered in either iso-tanks or food grade tanker truck loads.

## Storage

The small droplet Newman Zone® 55 emulsion is kinetically stable and pasteurization prevents microbial spoilage. We keep inventory in chilled storage where the shelf-life can exceed five years. Newman Zone® 55 can be stored on-site for 2-4 months without refrigeration. Avoid freezing conditions. Temperatures that average below 25 degrees Fahrenheit may result in frozen emulsion.

## Safety

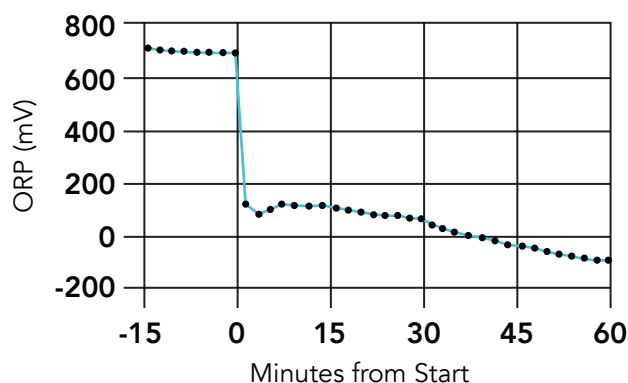
No protective equipment is necessary under normal use conditions. All ingredients consist of food or food grade additives.

# Newman Zone OS™

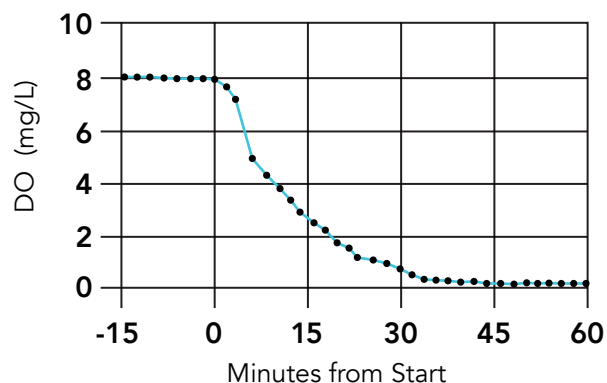
## Oxygen Scavenger for Anaerobic Bioremediation

Newman Zone OS™ is a blend of food grade antioxidants, chelated ferrous iron catalyst and buffering agents used to prepare water for anaerobic injections. Newman Zone OS™ is specially formulated to quickly remove dissolved oxygen from water and create the reducing conditions necessary for successful anaerobic bioremediation. Newman Zone OS™ supports bioaugmentation cultures such as SDC-9™ and KB-1® by removing dissolved oxygen from injection water and allowing bacteria to thrive and grow.

ORP REDUCTION\*



DISSOLVED OXYGEN REMOVAL\*



\*Tested in 1,000 Liter totes at 16° C

## Application

Newman Zone OS™ comes in pre-measured pails and is added to tanks prior to filling with water. For optimal results, stirring tanks with pumps or mixers is recommended until Newman Zone OS™ is fully dissolved. Typical applications result in anoxic water within one hour and a negative ORP within two hours.

## Benefits - Added Vitamin B12

Newman Zone OS™ contains 25 µg/liter of Vitamin B12 (as applied), a required corrinoid vitamin demonstrated to enhance growth and dechlorination performance of Dehalococcoides strains (He et al., May 2007).

## Benefits - Rapid Oxygen Scavenging

Newman Zone OS™ is a cost effective way to quickly prepare anaerobic water. Due to its high concentration of antioxidants, chelated ferrous iron catalyst and buffering agents, Newman Zone OS™ is effective even in cold, highly oxidized water. Higher temperatures will result in faster oxygen removal rates.

## Benefits - Supports Bioaugmentation Cultures

Laboratory microcosm studies have confirmed Newman Zone OS™ presents no toxicity or inhibition to the SDC-9™ bioaugmentation culture. Additionally, the antioxidants and chelating agents degrade to provide a rapidly available electron donor (700 mg/liter glucose equivalent).

# Newman Zone OS™

## Oxygen Scavenger for Anaerobic Bioremediation

### Product Content

Chemical Name	Composition
Food Grade Antioxidants	70%
Food Grade Catalysts, Chelating Agents and Buffers	30%

### Product Characteristics

Parameter	Unit	Specification
Appearance, packaged		White to brown powder or granules
Appearance, in solution		Dark grey to brown or yellow
Density	g/cm <sup>3</sup>	1.0 - 1.2
pH, in solution	Standard Units	7.0 - 8.0

### Packaging

Newman Zone OS™ is packaged in 1 and 5 gallon pails premeasured for 1,000 gallon (3,785 L) and 5,000 gallon (18,925 L) batches, respectively.

### Storage

Newman Zone OS™ may be stored under recommended conditions for months without activity loss. Keep containers tightly closed in a cool, well-ventilated area. Keep containers sealed to avoid exposure to oxygen or moisture.

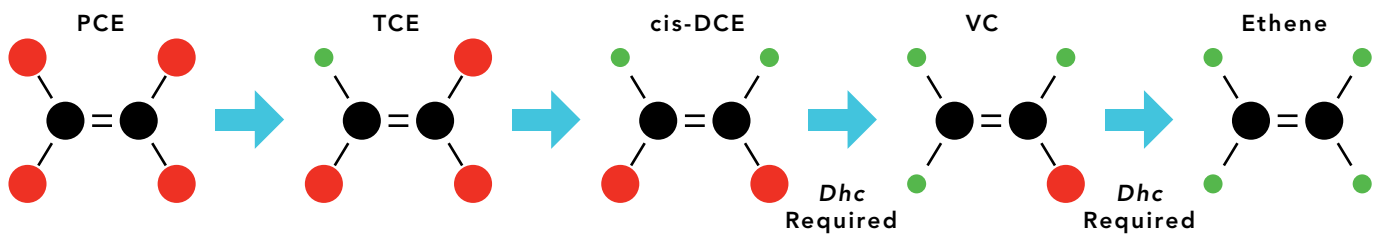
### Safety

Newman Zone OS™ is comprised of food grade, non-toxic ingredients. No known hazards are associated with exposure to this product when used as directed. Nevertheless, appropriate personal protective equipment is recommended when handling this product.

# SDC-9

## Bioaugmentation Culture for Groundwater Remediation

SDC-9™ is a field proven, highly effective consortium of microorganisms for in situ bioremediation of chlorinated solvents. SDC-9 contains multiple strains of *Dehalococcoides mccartyi* (*Dhc*), the only species known to completely biodegrade PCE and TCE to non-toxic ethene. For sites where *Dhc* are absent or present at low concentrations bioaugmentation provides the necessary bacteria for complete dechlorination. Even when *Dhc* is present bioaugmentation can provide substantial benefits by increasing dechlorination rates, using electron donor more efficiently and reaching site closure sooner.



## Benefits - Higher Dechlorination Rates

SDC-9 contains a natural consortium of bacteria that includes not only dechlorinating microbes but other beneficial bacteria that support *Dhc* growth by supplying required substrates and growth factors. "*Dhc* in mixed cultures exhibit shorter lag times following transfers, grow faster and exhibit higher dechlorination rates than pure *Dhc* cultures" (Bioaugmentation for Groundwater Remediation, 2013).

## Benefits - Low pH Tolerant

SDC-9 continues to perform at pH levels as low as 5.5 (Vainberg and Steffan, 2014), although pH levels above 6.0 are recommended for more effective dechlorination.

## Application

SDC-9 is commonly injected between rounds of anaerobic water and electron donor, which minimizes exposure to oxygen while mixing SDC-9 throughout the treatment area. Recommended dosing for SDC-9 is  $1 \times 10^7$  *Dhc* cells per liter in target zones (Lu et al., 2006).

## Contaminants Treated by SDC-9:

Tetrachloroethene (PCE)	1,1,2,2-Tetrachloroethane (TeCA)
Trichloroethene (TCE)	1,1,1-Trichloroethane (TCA)
cis-Dichloroethene (cDCE)	1,1-Dichloroethane (DCA)
trans-Dichloroethene (tDCE)	Carbon Tetrachloride (CT)
1,1-Dichloroethene (DCE)	Chloroform (CF)
Vinyl Chloride (VC)	Dichloromethane (DCM)
Freon 11	Hydrochlorofluorocarbon (HCFC)
Freon 113	Tetrafluoroethene (TFE)

## SDC-9 Contains:

*Dehalococcoides mccartyi*  
*Dehalogenimonas* spp.  
*Desulfovibrio* spp.  
*Desulfitobacterium* spp.  
 Methanogenic bacteria  
 Sulfate Reducing bacteria

# SDC-9

## Bioaugmentation Culture for Groundwater Remediation

### Product Characteristics

Parameter	Unit	Specification
Cell Count	<i>Dhc</i> Cells/Liter	$>1 \times 10^{11}$
Density	g/cm <sup>3</sup>	0.9 - 1.1
pH	Standard Units	6.0 - 8.0
Appearance		Light Greenish, Murky Liquid
Odor		Musty



### Packaging

SDC-9 is shipped in 19L stainless steel kegs. Kegs are pressurized with Nitrogen and stored in chilled coolers. Calibrated delivery system (1, 2 or 3.5 L) and fittings are provided. Users will need to provide an inert gas cylinder (Nitrogen or Argon) and regulator.

### Storage

Keep containers tightly closed in a cool, well-ventilated area. SDC-9 may be stored for up to 3 weeks at temperature 2-4° C. Avoid freezing conditions. Avoid exposure to oxygen.

### Safety

SDC-9 is a non-toxic, non-pathogenic, non-genetically modified, naturally occurring consortium of microbes. No known hazards are associated with exposure to this product. Nevertheless, appropriate Personal Protective Equipment is recommended when handling this product.



# TCA-20™ CULTURE: TREATING MIXED CHLORINATED SOLVENT CONTAMINATION

## TCA-20™ CULTURE

APTIM is an industry-leading, full-service engineering, design, construction, and technology company with comprehensive experience and capabilities in environmental management. Our skilled scientists and engineers use a wide range of emerging and commercial technologies to solve our client’s issues involving hazardous, toxic, and radioactive materials in all types of environmental media. We have developed several high-performance bacterial cultures specifically selected for bioaugmentation treatment of contaminated sites.

Our TCA-20 culture is a consortium of anaerobic microorganisms specially enriched for their ability to rapidly dehalogenate chlorinated ethanes, including 1,1,1-TCA; 1,1,2-TCA; 1,2-DCA; and 1,1-DCA (Figure 1). The culture also degrades carbon tetrachloride and chloroform and has been used in more than 100 field-scale applications.

The culture is grown in our Lawrenceville, N.J., fermentation facility using lactate as an electron donor and 1,1,1-TCA as the sole electron acceptor. During culture growth, fermentative microorganisms in the consortium convert lactate to hydrogen, which is subsequently used by dehalogenating microbes in the culture to reductively dechlorinate chlorinated alkanes.

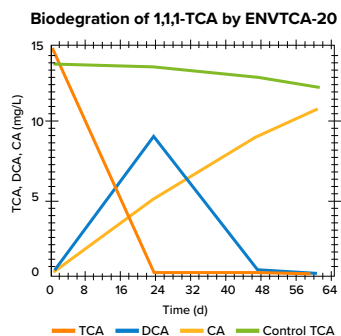


Figure 1: Biodegradation of 1,1,1-TCA by APTIMs TCA-20 culture

The culture can be grown to high-cell density in volumes up to 3,000 liters for treatment of large contaminant plumes.

In the field, the culture thrives on any commonly used electron donor compound (e.g., lactate, vegetable oil, polylactate, or molasses). It can be used either alone or in combination with our SDC-9™ culture for for hard-to-treat mixed-contaminant plumes also containing chlorinated ethenes.

Molecular analysis of TCA-20 has revealed that it contains at least one *Dehalobacter sp.* strain. The *Dehalobacter sp.* in the culture are very similar to *Dehalobacter sp.* strain TCA1 (Sun, B., et al. 2002, Science 298,1023-1025) (Figure 2), which is the only pure culture that has been reported in the scientific literature to grow on 1,1,1-TCA as a sole electron acceptor. Like the detailed TCA1 strain, the TCA-20 culture degrades chlorinated alkanes via dehalorespiration, meaning the bacteria use these compounds as electron acceptors during their normal respiration and growth.

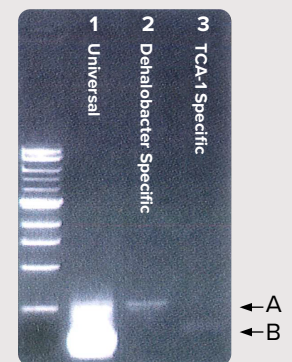


Figure 2: PCR analysis of TCA-20

Figure 2 shows agarose gel electrophoresis of polymerase chain reaction (PCR) products from the analysis of the TCA-20 culture. PCR primers targeted either all bacteria (Lane 1), all *Dehalobacter sp.* strains (lane 2) or *Dehalobacter sp.* strain TCA-1-like 16s rRNA gene sequences (lane 3). Positive DNA bands indicating the presence of “Dehalobacter” sp. and TCA-1 homologous DNA sequences are indicated by arrows A and B, respectively.

**APTIM. Expect the Extraordinary.**





**ATTACHMENT 5**  
**WPDES Permit Application / Notice of Intent**

**Notice:** Pursuant to chs. NR 200 and 205, Wis. Adm. Code, this notice of intent (NOI) is required to request coverage under the Wisconsin Pollutant Discharge Elimination System (WPDES) Permit No. WI-0046566-07-0 for discharges of contaminated groundwater to waters of the state of Wisconsin. Failure to complete this form in its entirety may result in a returned NOI or a denied NOI. Personal information collected will be used for administrative purposes and may be provided to requestors to the extent required by Wisconsin Open Records law [ss. 19.31-19.39, Wis. Stats.].

<b>SECTION I: FACILITY/PROJECT LOCATION INFORMATION</b>			
Facility/Project Name Former Trent Tube Plant No. 1		Facility Mailing Address (i.e. PO Box, Street, or Route) 5605 Carnegie Boulevard, Suite 500	
Facility/Project Physical Address (i.e. Street or Route) 2188 Church Street		City, State, Zip Code Charlotte, NC 29209	
County Walworth	Facility Phone No. NA	Facility Fax No. NA	Facility Email Address Benne.hutson@enproindustries.com
<b>SECTION II: FACILITY CONTACT INFORMATION</b>			
<b>Facility Operator/Plant Manager</b> Kevin Hedinger		Title Senior Hydrogeologist/ Environmental Consultant	
Company GZA GeoEnvironmental, Inc.		Contact Mailing Address (i.e. PO Box, Street, or Route) 20900 Swenson Drive, Suite 150	
City, State, Zip Code Waukesha, WI 53186		Contact Phone No. 262-754-2578	Alternative Phone No. 262-754-2560
Contact Fax No. 262-754-9711		Contact Email Address Kevin.hedinger@gza.com	
<b>Discharge Monitoring Contact Name</b> Kevin Hedinger		Title Senior Hydrogeologist/ Environmental Consultant	
Company GZA GeoEnvironmental, Inc.		Contact Mailing Address (i.e. PO Box, Street, or Route) 20900 Swenson Drive, Suite 150	
City, State, Zip Code Waukesha, WI 53186		Contact Phone No. 262-754-2578	Alternative Phone No. 262-754-2560
Contact Fax No. 262-754-9711		Contact Email Address Kevin.hedinger@gza.com	
<b>Authorized Representative Name</b> Benne Hutson		Title Director, Environmental, and Deputy General Counsel	
Company EnPro Holdings, Inc.		AR Mailing Address (i.e. PO Box, Street, or Route) 5605 Carnegie Boulevard, Suite 500	
City, State, Zip Code Charlotte, NC 28209		AR Phone No. 704-526-3818	Alternative Phone No.
AR Fax No.		AR Email Address Benne.hutson@enproindustries.com	

<b>SECTION III: FACILITY OWNER MAILING ADDRESS</b> (if different from Authorized Representative)		
<b>Facility Owner Name</b> Bruce Keyes, not individually but solely in a representative capacity	<b>Title</b> Trustee-Crucible Materials Corp Environmental Trust	
<b>Parent Company</b> Crucible Materials Corp Environmental Trust	<b>Owner Mailing Address</b> (i.e. PO Box, Street, or Route) 777 East Wisconsin Avenue	
<b>City, State, Zip Code</b> Milwaukee, WI 53202	<b>Owner Phone No.</b> 414-297-5815	<b>Alternative Phone No.</b>
<b>Contact Fax No.</b> 414-297-4900	<b>Contact Email Address</b> bkeyes@foley.com	

<b>SECTION IV: DISCHARGE CHARACTERIZATION</b>					
<b>Type of Wastewater</b> (check all that apply):	<b>Discharge Frequency</b> (e.g. Annual, Monthly, Daily)	<b>Average Daily Flow</b> (gallons of water discharged per day)	<b>Type of Wastewater</b> (check all that apply):	<b>Discharge Frequency</b> (e.g. Annual, Monthly, Daily)	<b>Average Daily Flow</b> (gallons of water discharged per day)
<input type="checkbox"/> Treated wastewater from groundwater remediation project			<input type="checkbox"/> Cleaning or decontamination wastewaters from the cleaning of treatment equipment for a remediation project		
<input checked="" type="checkbox"/> Infiltration or injection of a substance or remedial material for remediation of soil or groundwater	Annual	1,000-3,000	<input type="checkbox"/> Other (describe type)		
<input type="checkbox"/> Treated wastewater from dewatering of construction trenches or pits			<input type="checkbox"/> Other (describe type)		
<input type="checkbox"/> Landspreading or spray irrigation of agricultural chemical contaminated wastewater			<input type="checkbox"/> Other (describe type)		

<b>SECTION V: ELIGIBILITY CHECKLIST</b>
1. Is the wastewater discharged from and/or to properties within tribal lands (i.e. land owned by or held in trust for the tribes and land within recognized reservation boundaries)?  <input type="checkbox"/> Yes. <b>Your discharge is not eligible for this General Permit.</b> <i>If all discharges from your facility go to or come from properties in tribal lands, you do not require regulation under a WPDES discharge permit. Therefore, skip the</i>

rest of the NOI and sign the last page. We will remove you from our tracking system. The Tribe or United States Environmental Protection Agency (EPA) regulates discharges within tribal lands.

No. **Proceed to question 2.**

2. Is the wastewater discharged to a Publicly Owned Treatment Works (i.e. sanitary sewer)? A septic system is not considered a sanitary sewer.

Yes. **Your discharge is not eligible for this General Permit.** *If all discharges from your facility go to a sanitary sewer, you do not require regulation under a WPDES discharge permit. Therefore, skip the rest of the NOI and sign the last page. We will remove you from our tracking system. If at some point in the future operations at your facility result in a discharge, you will need to inform the Department. If only some or no discharges from your facility go to the sanitary sewer, please proceed to question 3.*

No. **Proceed to question 3.**

3. Are any of the following wastewaters discharged or mixed with the above wastewaters to surface water or groundwater: Contact or noncontact cooling water, water from boiler cleaning operations, air compressor condensate contaminated with oil and grease, softener regeneration backwash, municipal wastewater, domestic wastewater, or process wastewaters from the production of any material or product, or other wastewater not otherwise cover by this general permit?

Yes. **Your discharge is not eligible for this General Permit.** *Skip the rest of the NOI and complete the certification on last page. Contact the Department to obtain application for an individual WPDES discharge permit.*

No. **Proceed to question 4.**

4. What is the receiving water for your discharge? If your facility has more than one outfall, indicate in the space provided which outfalls go to groundwater and which go to surface waters. (*check all that apply*)

**Groundwater Discharge** (*any wastewater that is allowed to infiltrate or seep into the soil from a permeable surface including but not limited to any drain field, agricultural field, ditch, swale, depression, trench or pit, adsorption pond, infiltration pond, rain garden, prairie, or vegetative area that may impact groundwater quality*). **If you will only be discharging to groundwater, please proceed to question 5.**

**Outfall #(s):**

**Wetland Discharge** (*any discernible, confined and discrete conveyance system including but not limited to any pipe, ditch, channel, tunnel, conduit, swale, or storm sewer that will carry wastewater to a wetland. Wetlands mean an area where water is at, near or above the land surface long enough to be capable of supporting aquatic or hydrophytic vegetation and which has soils indicative of wet conditions*). **If you will only be discharging to wetlands, please proceed to question 5.**

**Outfall #(s):**

**Note:** *The Department will need to determine if your discharge would cause significant adverse impacts to wetlands*

**Surface Water Discharge** (*any discernible, confined and discrete conveyance system including but not limited to any pipe, ditch, channel, tunnel, conduit, swale, or storm sewer that will carry wastewater to a creek, stream, pond, marsh, bay, reservoir, river, lake, or other surface water within the state of Wisconsin*). **Proceed to question 4A.**

**Outfall #(s):**

A. What is the name(s) of the surface water your discharge enters?

NA

**Proceed to question 4B.**

B. What is the Water Body Identification Code (WBIC) of the surface water your discharge enters?

NA

**Proceed to question 4C.**

**Note:** The WBIC for a specific surface water can be found at: <http://dnr.wi.gov/water/waterSearch.aspx>.

C. Is the discharge directly to a surface water classified as an outstanding or exceptional resource waters as defined in ch. NR 102, Wis. Adm. Code.?

Yes. **Your discharge is not eligible for this General Permit.** *Skip the rest of the NOI and complete the certification on last page. Contact the Department to obtain application for an individual WPDES discharge permit.*

No. **Proceed to question 4D.**

D. Is the discharge directly to a surface water classified as a public water supply (i.e. Lake Superior, Lake Michigan and Lake Winnebago) in ch. NR 104, Wis. Adm. Code?

Yes. **Your discharge is not eligible for this General Permit.** *Skip the rest of the NOI and complete the certification on last page. Contact the Department to obtain application for an individual WPDES discharge permit.*

No. **Proceed to question 5.**

5. Does the discharge contain water treatment additives (i.e. biocides such as microbicides, fungicides, molluscicides, chlorine, etc.) or water quality conditioners (i.e. scale and corrosion inhibitors, pH adjustment chemicals, oxygen scavengers, conditioning agents, water softening compounds, etc.) that may enter surface water or groundwater without receiving wastewater treatment or that are used in a treatment process but are not expected to be removed by wastewater treatment?

Yes. **For each additive used, please fill out and attach an Additive Review Worksheet.** *Additive Review Worksheets must be completed to receive coverage under this general permit. The Additive Review Worksheet is not required for additives with active ingredients consisting of chlorine, hypochlorite, sulfuric acid, hydrochloric acid or sodium hydroxide. Also, chemicals used in an industrial process generating wastewater that eventually receives treatment or chemicals added as part of wastewater treatment process (such as ferric chloride, alum or pickle liquor) are not considered water treatment additives and need not require an additive review. Proceed to question 6.*

No. **Proceed to question 6.** In response to a GZA question, WDNR stated that Question % applies only to surface water discharge.

6. Will chlorine-based compounds be used to control the growth of micro-organisms in the treatment system or used to decontaminate the treatment system after completion of the remediation project?

Yes. **Proceed to question 6A.**

No. **Proceed to question 7.**

A. Will chemicals be used to dechlorinate the wastewater prior to discharge to surface water?

Yes. **The wastewater will be dechlorinated with chemicals. Proceed to question 7.**

No. **The wastewater will not be dechlorinated with chemicals. Proceed to question 7.**

7. Is a discharge management plan attached to this NOI that includes all the information necessary from Section 3 of the permit?

- Yes. **Proceed to question 8.**  
 No. **This form will be considered incomplete and returned to you.**

8. Has the groundwater at the site been analyzed for contaminants and are the results attach to the discharge management plan?

- Yes. **Proceed to question 9.**  
 No. **This form will be considered incomplete and returned to you.**

9. If a treatment facility is required for the treatment of contaminated groundwater, have the plans and specifications been submitted to or approved by the department under s. 281.41, Wis. Stats., and ch. NR 108, Wis. Adm. Code?

- Yes. **Proceed to Section VI.- NA**  
 No. **Please contact wastewater plan review staff to find out how to get the plans approved. Proceed to Section VI.**

**Note:** Department wastewater plan review staff can be found here:

<http://dnr.wi.gov/topic/wastewater/planreviewers.html>.

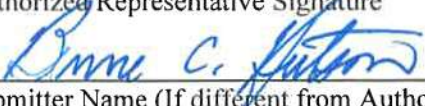

Additionally, department plan submittal requirements can be found here:

<http://dnr.wi.gov/topic/wastewater/AdequateSubmittal.html>.

**SECTION VI: CERTIFICATION**

*This form must be signed by a responsible executive or municipal officer, manager, partner or proprietor as specified in s. 283.37(3), Wis. Stats., or a duly authorized representative of the officer, manager, partner or proprietor that has been delegated signature authority pursuant to s. NR 205.07(1)(g)2., Wis. Adm. Code. To delegate signatory authority to a duly authorized representative, please submit a Delegation of Signature Authority (DSA) form (Form 3400-220).*

I certify under penalty of law that these documents and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Authorized Representative Name Benne Hutson	Title Director, Environmental, and Deputy General Counsel
Authorized Representative Signature 	Date Signed 9/18/2019
Submitter Name (If different from Authorized Representative) Kevin Hedinger	Title Senior Hydrogeologist
Submitter Signature 	Date Signed 9/19/2019

State of Wisconsin  
Department of Natural Resources  
Bureau of Water Quality  
PO Box 7921, Madison WI 53707-7921  
[dnr.wi.gov](http://dnr.wi.gov)

**Notice of Intent (NOI)**  
**Contaminated Groundwater from Remedial**  
**Action Operations**  
WPDES Permit No. WI-0046566-07-0  
Rev. 06/2018

Please print and sign this certification page. Scan and email the completed form, certification page and any other supporting information to the department regional general permit reviewer at least thirty (30) business days before the expected start date of discharge. A listing of the general permit reviewers for each region with mailing addresses and phone numbers can be found at <http://dnr.wi.gov/topic/wastewater/GeneralPermits.html>. Please scroll to the “How to Apply” section and click the department region that the discharge is located in.