BASIS OF DESIGN REPORT ABANDONED SOLVENT CENTER SITE

POMPEY, NY NYSDEC No. 734035

PREPARED ON BEHALF OF
THE ABANDONED SOLVENT CENTER SITE PARTICIPATING PARTIES

PREPARED BY

TETRA TECH
175 NORTH CORPORATE DRIVE SUITE 100
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TETRA TECH PROJECT No. 117C-GE-00070

OCTOBER 2022



175 North Corporate Drive, Brookfield, Wisconsin 53045

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CERTIFICATION STATEMENT

I, James R. Dickson, certify that I am currently a NYS registered professional engineer and that this Basis of Design Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).

089100	PE
10/14/2022	DATE



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ACRONYMS AND ABBREVIATIONS

μg/L Micrograms per Liter

1,4-D 1,4-Dioxane

COC Chemicals of concern

CPVC Chlorinated polyvinyl chloride

GAC Granular Activated Carbon

gpm Gallons Per Minute

HDPE High Density Polyethylene

IR Infrared

NYSDEC New York State Department of Environmental Conservation

O&M Operation and Maintenance

OM&M Operation, Maintenance, and Monitoring

PLC Programmable Logic Controller

PVC Polyvinyl Chloride

Tetra Tech, Inc.

NYR 20 New York Route 20

VFD variable frequency drive

VOCs Volatile Organic Compounds

1.0 INTRODUCTION

Tetra Tech, Inc. (Tetra Tech) prepared this Basis of Design Report on behalf of the Pompey, New York Abandoned Solvent Center Site Participating Parties to identify and develop a treatment option for the compounds of concern (COCs) consisting of specific volatile organic compounds (VOCs) and 1,4-dioxane (1,4-D) in groundwater at the Abandoned Solvent Center Site (Site).

This Basis of Design Report was prepared as requested by the New York State Department of Environmental Conservation (NYSDEC) in correspondence dated October 25, 2021, and the results of the pilot study completed at the site on April 6, 2022 (Tetra Tech, 2022). This report satisfies the requirements outlined in the Administrative Order on Consent (effective August 1, 1995) and the Partial Consent Decree (No. 97 CV-0976) dated December 15, 1997.

1.1 Background

The Site occupies approximately 6.5 acres at the intersection of New York Route 20 (NYR 20 or Cherry Valley Turnpike) and Ridge Road (County Road 128) in the Town of Pompey, Onondaga County, New York. NYR 20 forms the northwestern border of the site, and Ridge Road divides the east and west sides of the Site. The site is located on a gentle slope ranging from 3 to 5 percent slope and it slopes toward the intersection of NYR 20 and Ridge Road. The surrounding area is rural agricultural with several residential properties and one greenhouse business immediately across the street from the site.

The former septic system (tank and leach field) at the site appeared to be the primary source of COCs, specifically, 1,1,1-trichloroethane and trichloroethene and their respective breakdown products 1,1-dichloroethane and 1,2-dichloroethene. Water from the slurry wall-contained area collects in an underground sump that has pumps for transferring water into the equalization tank within the groundwater treatment building. Water from the equalization tank is currently pumped through an air stripper that removes the previously identified COCs.

As part of NYSDEC's emerging COC sampling requirements, 1,4-dioxane (1,4-D) was identified in the treatment system influent and effluent in the October 2018 quarterly sampling event. The effluent discharges to a drainage ditch along the southern side of NYR 20. The presence of 1,4-D in the discharge above the NYSDEC proposed finished water source guidance valve of 1 microgram per liter (μ g/L) prompted the need to review the existing system's treatment capability and identify alternative technologies to augment or replace the existing treatment system. (The composition of the existing system is discussed in Section 2.)

On August 6, 2021, Tetra Tech submitted to the NYSDEC on behalf of the Participating Parties an evaluation of several technologies capable to treat 1,4-D and target VOCs in extracted groundwater to concentrations below applicable regulatory requirements. A carbon treatment option was selected as the preferred alternative based on research conducted during a focused feasibility study, recommendation by a granular activated carbon (GAC) media vendor (Calgon Carbon Corporation) experienced with similar

treatability studies at other sites, results from a successful implementation of the GAC technology at an adjacent point of entry treatment (POET) system, and the low capital and annual operation and maintenance (O&M) costs involved as compared to the other options.

Tetra Tech proposed a pilot study be performed to confirm the effectiveness of the selected GAC option in treating 1,4-D in the groundwater at the site. On October 25, 2021, the NYSDEC concurred with the proposal and requested a revised treatment system design plan for evaluation and approval. A pilot study using three GAC columns in series began on February 8, 2022 and was completed on April 6, 2022. The pilot study was designed to simulate full-scale batch groundwater treatment at a flow rate of 10 gallons per minute (gpm).

The GAC effectively removed 1,4-D to concentrations below the laboratory method detection limit of 0.2 micrograms per liter (µg/L). The study showed that during continuous operations of the system at full-scale, approximately 1.57 pounds of GAC will treat 1,000 gallons of water and approximately 637,000 gallons of groundwater will be treated before GAC change out is required.

Based on the results of the pilot study, a remedial design is completed for the proposed treatment system. This Basis of Design Report includes the design criteria, design basis, process system description, system layout, and associated drawings and specifications. The design drawings of the proposed system are included in Attachment 1 and cut sheets of the major components of the system are in Attachment 2. The Final Pilot Study Report is included in Attachment 3.

1.2 Scope of Pre-Design Activities

The project entails the construction of a redesigned groundwater treatment system to replace the existing treatment system and reduce the concentrations of COCs in groundwater below their respective screening levels. The scope of the project includes identifying and developing critical design decisions and issues associated with the construction phase of the system. This Basis of Design Report will serve as the guidance document for the final detailed design process.

1.3 Purpose

The purpose and intent of completing this report are to advance the process of construction of the replacement groundwater treatment system. The system will be designed to reduce the concentration of target COCs in extracted groundwater to below their respective discharge limits and/or proposed NYSDEC proposed guidance values before discharge. The discharge criteria are shown below:

PARAMETER	DISCHARGE LIMIT	UNIT
Volatiles	<u> </u>	
1,1 Dichloroethane	5	μg/L
1,1 Dichloroethene	5	μg/L
Cis-1,2 Dichloroethene	5	μg/L
Trans-1,2 Dichloroethene	5	μg/L
Ethylbenzene	5	μg/L
Methylene Chloride	5	μg/L
Tetrachloroethene	5	μg/L
Toluene	5	μg/L
1,1,1 Trichloroethane	5	μg/L
Trichloroethene	3	μg/L
Vinyl Chloride	2	μg/L
Xylenes	5	μg/L
OTHERS		
pH	5.5 to 8.5	S.U.
1,4-Dioxane*	1	μg/L

Notes:

- 1. Xylene is to be monitored for each individual component (ortho, meta, para).
- pH will be monitored continuously during system operation.
 *The 1,4-D discharge limit is an NYDSEC Proposed Guidance Value, and the Department of Health-Finished Drinking Water adopted maximum contaminant level.
 S.U. represents standard units.

2.0 EXISTING CONDITIONS

The existing remedy consists of a low permeability capping system, groundwater cutoff wall, groundwater collection system, groundwater treatment system, and surface water control facilities. The subsections below summarize various features at the site. More information on these features is discussed in the Operation, Maintenance, and Monitoring (OM&M) Manual for the existing system (O'Brien & Gere Operations, Inc., 1999).

2.1 Low-Permeability Capping System

The capping system at the site was installed over the surface soils and excavated materials during the construction of the groundwater collection trench, groundwater cutoff wall, and ditches along NYR 20 and Ridge Road. The capping system was installed to prevent direct contact with the subsurface materials and also the infiltration of stormwater into the subsurface.

The capping system consists of a 40-mil linear low-density polyethylene flexible geomembrane overlain by a 24-inch soil barrier protection layer, and a vegetated soil layer on top.

2.2 Groundwater Cutoff Wall

The 20-feet deep groundwater cutoff wall was constructed by backfilling narrow trenches with bentonite slurry to create a barrier that inhibits groundwater flow into the site; thus, eliminating a groundwater transport mechanism.

2.3 Groundwater Collection System

The groundwater collection system consists of a perforated 6-inch diameter high-density polyethylene (HDPE) pipe. The collection system extends 20 to 27 feet below ground surface and contains three (3) cleanouts, eight (8) piezometers, and two (2) standpipes installed along the trench. The trench and the perforated HDPE pipe are sloped and drained by gravity to a pump station located at the northeast corner of the site.

The pump station has two (2) submersible pumps sized at approximately 45 gpm to convey extracted groundwater to a dry vault through a 1.5-inch pipe contained in a 4-inch chlorinated polyvinyl chloride (CPVC). Groundwater is conveyed through this pipe into a distribution manhole at a design flow rate of 15 gpm before it is transferred to the treatment system.

2.4 Groundwater Treatment System

Groundwater is pumped from the groundwater collection trench wet well to a 200-gallon influent flow equalization tank. A sulfuric acid feed system lowers the pH in the influent water to prevent the formation of scale in the air stripper. A float-controlled centrifugal feed pump then conveys the groundwater from the equalization tank to the top of the low-profile air stripper at a design flow rate of 15 gpm. The system collects and treats approximately 800 gallons of water on a daily average. The treated water is discharged by gravity from the air stripper through a 3-inch diameter polyvinyl chloride (PVC) effluent pipe to the roadside drainage ditch south of NYR 20. More information on the existing

treatment and its components can be found in OM&M Manual (O'Brien & Gere Operations, Inc., 1999).

2.5 Surface Water Control Facilities

The site has surface water control facilities constructed to protect the low-permeability capping system from overland flow and minimize stormwater infiltration. The surface water control facilities include drainage swales along NYR 20 and Ridge Road. The ditches adjacent to Ridge Road were lined with asphalt to extend the limits of the cap from the two Site parcels (Fiore Lot 023-01-06.0 and Scalisi Lot 023-02-03.0) to Ridge Road. The asphalt-lined ditches extend from the intersection of Ridge Road and NYR 20 to the southern limit of the groundwater cutoff wall crossing Ridge Road.

2.6 Site Access

The site is improved with an approximately 500-feet long asphalt-paved access road that connects NYR 20 to Ridge Road. Access is controlled by a perimeter fence around the limits of the low permeability cover with a series of vehicle and man gates.

3.0 BASIS OF DESIGN

The basis of design is restricted to the construction or retrofitting of the existing treatment system. Several technical issues were considered during the development of the design. These included the suitability of the existing building for retrofitting the new treatment system, building structure, condition of the building, building aesthetics, weather conditions, site grade, access road, and the pilot study results.

3.1 Existing Building Assessment

The existing treatment system is housed in an insulated 20 by 20-foot building with a 10 by 10-foot overhead or roll-up door access in front and a man door at the side. The preliminary assessment of the condition and functionality of the building and the existing system's component for the intended purpose was based on information obtained during a site visit on January 22, 2022. The structural information for the existing building was obtained from the Completed Record Drawings (O'Brien & Gere Operations, Inc., 1998).

The structural integrity of the building is sound; however, the floor loading, spacing, and components in the building make it unsuitable to support the intended design. The design weight distribution of the concrete floor in the building is limited to 250 pounds per square foot; thus, it cannot support the number of vessels intended to be used for the redesigned system. Secondly, the building has space restrictions for forklift maneuverability; hence, there is not enough clearance or space to accommodate the forklift's turn radius during GAC changeout.

The existing controls and electrical wiring in the building are not suitable and will require updated electrical work to accommodate the new components and balance new loads. The rewiring and modification work will include balancing the loads for the pumps, flow meters, variable frequency drive (VFD), control systems, infrared (IR) heaters, and other equipment required for the operation of the redesigned system. This will require using circuit breakers, switches, and/or fuses intended to constitute the main control and cutoff of the main power supply. All defective breakers/switches, controls, fixtures, and electrical panels will be replaced. It is believed that most or all of the existing panels can be reused and the existing feed panel has the necessary amperage by eliminating the existing inefficient heater with a high-efficiency IR heater and eliminating the air stripper blower/pump load and tank mixer load (already abandoned in place). The layouts of the electric upgrade or modification are shown in Figure E-1.

3.2 Weather Condition

The site has a continental climate characterized by cool summer nights and fair high summer daylight temperatures. Winters are cold and sometimes severe with temperatures ranging from 14 to 36 degrees Fahrenheit. Freezing temperatures during winter can damage the PVC pipes; hence, the piping system will require insulation or protection.

3.3 Site Grade

The site has a gentle slope ranging from 3 to 5 percent toward the south due to the construction of the low permeability capping system. The topsoil layer of the capping

system is covered by grass to mitigate erosion. It should be noted that the paved site for the installation of the conex box (new system) is outside the swale beyond the capping system. (The location to be paved area is indicated in Attachment, Figure C-1.) Previous geotechnical investigations completed prior to the construction of the existing building indicated that the site is competent and suitable for the installation of the redesigned system.

3.4 Pilot Study

Prior to the design of the new groundwater treatment system, a pilot study using three virgin GAC vessels in a Lead/Lag-1/Lag-2 series configuration was completed. The study began on February 8, 2022 and was completed on April 6, 2022. The pilot study aimed at determining the effectiveness of the GAC material in reducing the concentration of 1,4-D and VOCs in extracted groundwater; evaluating the breakthrough of 1,4-D in the GAC system; and acquiring data needed to design a full-scale treatment system.

The pilot study was designed to simulate the full-scale operation of the new treatment system and estimate the amount of GAC required to treat extracted groundwater. The designed parameters used during the pilot study are presented below.

Pilot Study Parameters Used

Parameter	Value
Flow Rate (gpm)	0.091
Flow Rate (cubic centimeter per minute)	343
Cross-Sectional Area (square feet)	0.087
Superficial Velocity (gpm per square feet)	1.04
Weight of GAC in Column (pounds)	9.07
GAC Column Volume (gallons)	2.40
Contact Time per Column (minutes)	26.36
Contact Time for all Columns (minutes)	79.08
Backwash Flow Rate (gpm)	0.55
Volume per Backwash (gallons)	16.40

During the pilot study, the treatment media successfully removed COCs from extracted groundwater. The GAC material effectively removed 1,4-D to concentrations below the detection limit of $0.2~\mu g/L$. Except for the influent, all the GAC-filled columns exhibited a gradual breakthrough of 1,4-D throughout the study and a complete breakthrough was observed in the first (lead) vessel after 44 days. The pilot-scale GAC usage rate of 1.57 pounds per 1,000 gallons of treated water was observed during the study. The estimated empty bed contact time during the pilot study was 26.4 minutes compared to the predicted 20 minutes. It is expected that the general increase in the empty bed contact time will improve the removal of 1,4-D by GAC due to the longer contact time between the GAC material and the impacted groundwater. The pilot result was used to design the new treatment system (discussed in Section 4).

4.0 GROUNDWATER TREATMENT SYSTEM

This section discusses various components of the redesigned treatment system and the design calculations obtained from the pilot study.

4.1 System Layout

The redesigned groundwater treatment system is a carbon filtration system contained in a standard 20-feet long, 8-feet wide, and 8.5-feet high prefabricated conex box (Attachment 1; Figures P-2, P-3, and M-1). The conex box will be placed on a newly graded or asphalt-paved pad on the eastern side of the existing building. It will be placed adjacent to the existing paved access road and located appropriately 4-6 feet east of the existing building. The layout of the paved area is shown in Attachment 1; Figure C-1 and the profile of the pavement is shown in Attachment 1; Figure D-1. The conex box will be linked to the existing building using an insulated 6-inch piping system with a 2-inch pipe inside for containment.

4.2 Existing Building

The existing building containing the old treatment system will be repurposed to contain three tanks (T-100, T-201, and T-202), two pumps, two flowmeters, a multi-bag filter housing equipped with 100-micron filter bags, a pipe network with valves, and a control system.

The Equalization Tank T-100 is an 850-gallon vertical tank that will store influent from the existing wet well sump. The other two equalization tanks (T-201 and T-202) are 500-gallon Norwesco vertical tanks that will be used as a reservoir to store filtered and treated groundwater for beneficial reuse from the new system discharge prior to overflowing into the gravity outfall line to the outfall located south of NYR 20. The system in the existing building will have two Goulds pumps controlled by single- to three-phase VFDs to maintain the design flow and backwash flow as needed. The filter housing will have four 100-micron bag filters to remove suspended materials in the effluent before it is transferred into the GAC vessels for treatment.

The existing building will be equipped with control systems, a pump VFD control panel, a circuit breaker panel, and an exhaust fan. The control systems will consist of a supervisory control and data acquisition system and programmable logic controllers (PLC) to monitor, control, and coordinate all process and auxiliary systems including the flowmeters, pumps, water level indicators, temperature regulators, cameras, VFDs, and uptime or downtime alarms. The PLC will be provided with a surge protector and a backup battery programmed to meet the treatment requirements for the design loadings with limited operator adjustment. The PLC and other components of the treatment system will be accessed remotely using a telemetry system.

4.3 New Treatment System Components

The conex box or container has four 1,000 pounds American Society of Mechanical Engineers non-code activated carbon adsorbers fabricated of pressure vessel quality carbon steel equipped with high solids epoxy lining. The four carbon adsorbers will be prefilled with 1,000 pounds of virgin coconut shell carbon (Calgon® OLC 12x40) or

engineer-approved equivalent for treatment. (Calgon® OLC 12x40 was the same GAC material used during the pilot study.)

The carbon adsorbers will be labeled CA-101 through CA-104 and will be interconnected using schedule 40 PVC pipes and hoses, as shown in Attachment 1 (Figures P-2 and P-3). The connection will have camlock couplings, pressure gauges, true union ball valves, air release valves, and butterfly valves. The process pipe network and valve arrangements will enable the system to operate in all configurations needed. The pipe network will also allow backwashing of any individual carbon adsorbers when it is in the lead position and there is an unacceptable pressure drop due to the accumulation of suspended solids in the carbon bed. The adsorber requiring backwash will be isolated from the system process flow during the process. It will also allow for backflushing of fines with treated water upon initial operation of the system and after carbon changeouts.

The conex box will be equipped with two light fixtures, an exhaust fan, and two Schwank IR heaters (with a third option if needed). The heaters will automatically warm the conex box during freezing temperatures to prevent damage to the piping and other components. The conex box will be accessed from the southern side and rear. The south side will have a 36-inch main door in the middle for routine access. The rear will have double-locking standard shipping container doors. The system will have two roof hatches for easy access to the four carbon absorbers during GAC media replacement (changeouts) and filling.

The conex piping will be linked to the existing building via four 6-inch PVC pipes wrapped in insulation for routing the 2-inch PVC process piping while providing containment. The 6-inch piping will be connected through the conex wall with flanges or bulkhead fitting (Attachment 1; Figure M-1). It will be sloped to and extended inside the curb of the existing building to direct any leaks to the sump in the building. Four 2-inch pipes for the influent from the existing system, backwash influent from the new system, backwash feed from the existing system, and the effluent (discharge) from the new system will be routed through the 6-inch containment pipe sleeves. A combination of an air gap and exterior insulation will prevent the pipes from freezing in the winter months.

4.4 System Operation

Groundwater collected in the trench wet well will be pumped through the existing dry vault into Equalization Tank T-100 by two sump pumps, with one being the primary and the other for backup. The primary pump will run most of the time and the backup pump will be exercised by the PLC occasionally to prevent seizing. The sump pump will be actuated by new motor starters from the PLC signals. A VFD-controlled centrifugal feed pump will transport the extracted groundwater from Equalization Tank T-100 through the 4-inch bag filter housing and into the lead GAC vessel while maintaining a constant flow as indicated on the feed flow meter input to the PLC. Extracted groundwater will be transported through a flowmeter at a designed flow rate (10 gpm) before it is filtered for treatment in the conex. The VFD will ensure a constant rate of flow as the bag filters clog between changeouts causing variable backpressures.

The GAC vessels in the conex will be arranged by valve and piping manifolds in a Lead/Lag-1/Lag-2 configuration in series (as shown in Attachment 1; Figure P-3). A spare fourth vessel has been provided to allow for carbon changeout based on vendor

availability reducing rush scheduling costs. Based on the results of the pilot study, the spent GAC in the lead vessel will be replaced after 253-508 days of routine operations based on worst-case average flow estimates. The initial operations with the lead carbon vessel containing virgin carbon represent the longest duration. Following the first changeout of carbon in the lead vessel, the changeout frequency will be a shorter duration. The actual changeout frequency will be based on sample analytical results that show at least a 30 percent breakthrough of 1,4-D through the lead vessel during routine monitoring of the system. The Lead/Lag-1/Lag-2/Spare series configuration will be alternated in the following manner:

- The spent lead vessel will be changed out and become the new spare vessel.
- The Lag-1 vessel will become the new lead vessel.
- The Lag-2 vessel will become the new Lag-1 vessel.
- The spare vessel will become the new Lag-2 vessel (Polish).

This sequence of vessel alternation will continue for the duration of the system operation.

The treated groundwater from the GAC vessels will be discharged into the combined discharge tanks T-201 and T-202 reservoir at the feed flow rate. The tanks will fill and overflow by gravity through a discharge flow meter/totalizer to the existing outfall pipe from the building. The outfall discharges into the ditch south of NYR 20 via a 3-inch diameter PVC effluent pipe from the building to the existing discharge manhole and via an 8-inch HDPE pipe to the outfall structure. The beneficial reuse of the treated water in the discharge tanks is used to provide service water in the building for bag filter housing washdowns; water for wetting new carbon in the vessel following the carbon changeout; flushing off fines from the wetted carbon after initially soaking it for 24 hours; and for backwashing the vessels if the backpressure develops on the lead vessel.

4.5 Full-Scale Operation Design

The full-scale operation design parameters for the new groundwater treatment system based on the results of the pilot study are presented below.

Groundwater Treatment System Full-Scale Design Parameters

Parameter	Value
Total Flow rate (gallons per minute)	10
Vessel Diameter (feet)	3.5
Number of Vessels (additional vessel will be added as spare)	3.0
GAC Weight per vessel (pounds)	1,000
GAC Average Density (pounds per cubic feet)	28.38
Backwash Rate (gallons per minute per square feet)	6.25
Backwash Duration (minutes)	30
Vessel Superficial Velocity (gallons per minute per square feet)	1.04
GAC Vessel Volume (gallons)	264
Contact Time per Vessel (minutes)	26.36
Contact Time for all Vessels (minutes)	79.08

Parameter	Value
Backwash Flow (gallons per minute)	60
Volume per Backwash (gallons)	1,804

Based on the results of the pilot study, the GAC material used is expected to have a consumption of approximately 1.57 pounds of GAC per 1,000 gallons of water treated. The initial system, which consists of virgin carbon, is expected to treat approximately 637,000 gallons of water during the full-scale operation at an estimated GAC changeout between 381-508 days at the maximum average discharge rate discussed in the pilot study. This treatment capacity will be slightly reduced to approximately 253 days during subsequent changeouts due to the initial loading of 1,4-D on the new lead vessel during initial/routine operations. It should be noted that the actual GAC changeout will be based on 30 percent or more breakthroughs of 1,4-D across the lead vessel observed in the monitoring analytical data collected as part of the routine O&M of the system.

4.6 Contact Time

The empty bed contact time is estimated as the volume of the empty bed divided by the system's designed flow rate. It is a measure of the time water is in contact with the GAC material, assuming all groundwater filtered for sediment and particulate removal passes through the GAC material at the same velocity. The estimated empty bed contact time will be more than 27 minutes, as compared to the 20 minutes predicted. It is expected that an increase in the empty bed contact time will improve the removal of 1,4-D by GAC due to the longer contact time.

5.0 DELIVERABLES

After the construction of the groundwater treatment system is completed, a Construction Completion Report documenting all the activities and work performed will be prepared and subsequently submitted to the NYSDEC for approval.

A detailed Groundwater Treatment OM&M Manual will also be prepared after the completion of the installation and startup of the groundwater treatment system.

6.0 REFERENCES

O'Brien & Gere Operations, Inc., 1998. Record Drawings for the Abandoned Solvent Center Site at Pompey, New York, Site Code #734035, November.

O'Brien & Gere Operations, Inc., 1999. Operation, Maintenance, and Monitoring Manual for the Abandoned Solvent Center Site at Pompey, New York, Site Code #734035, January.

Tetra Tech, Inc., 2022. Pilot Study Report at the Abandoned Solvent Center Site in Pompey, New York, May.

ATTACHMENTS

ATTACHMENT 1 (DESIGN DRAWINGS)



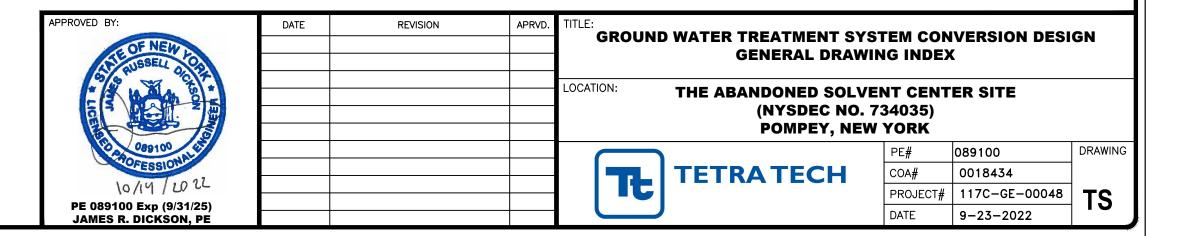
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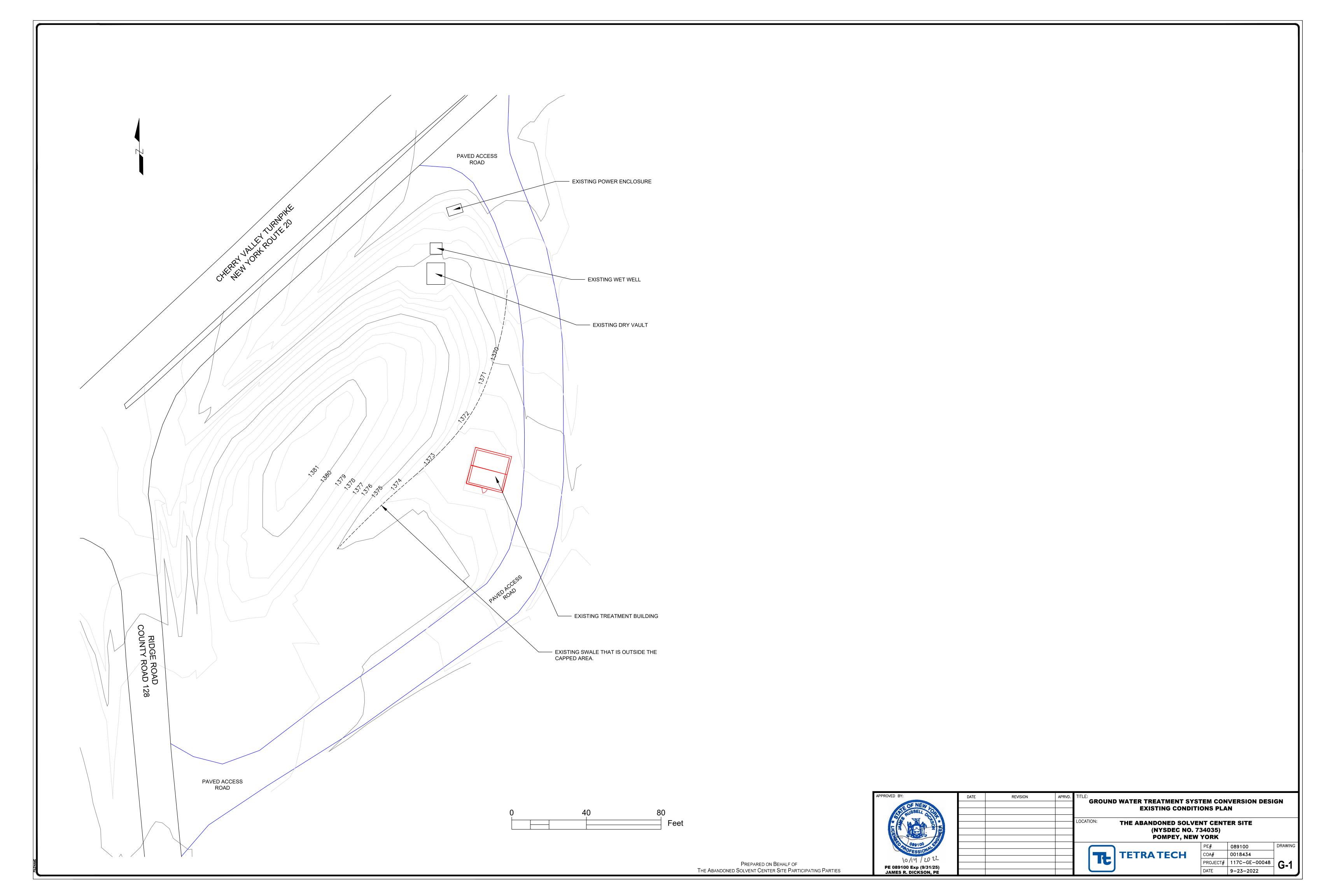
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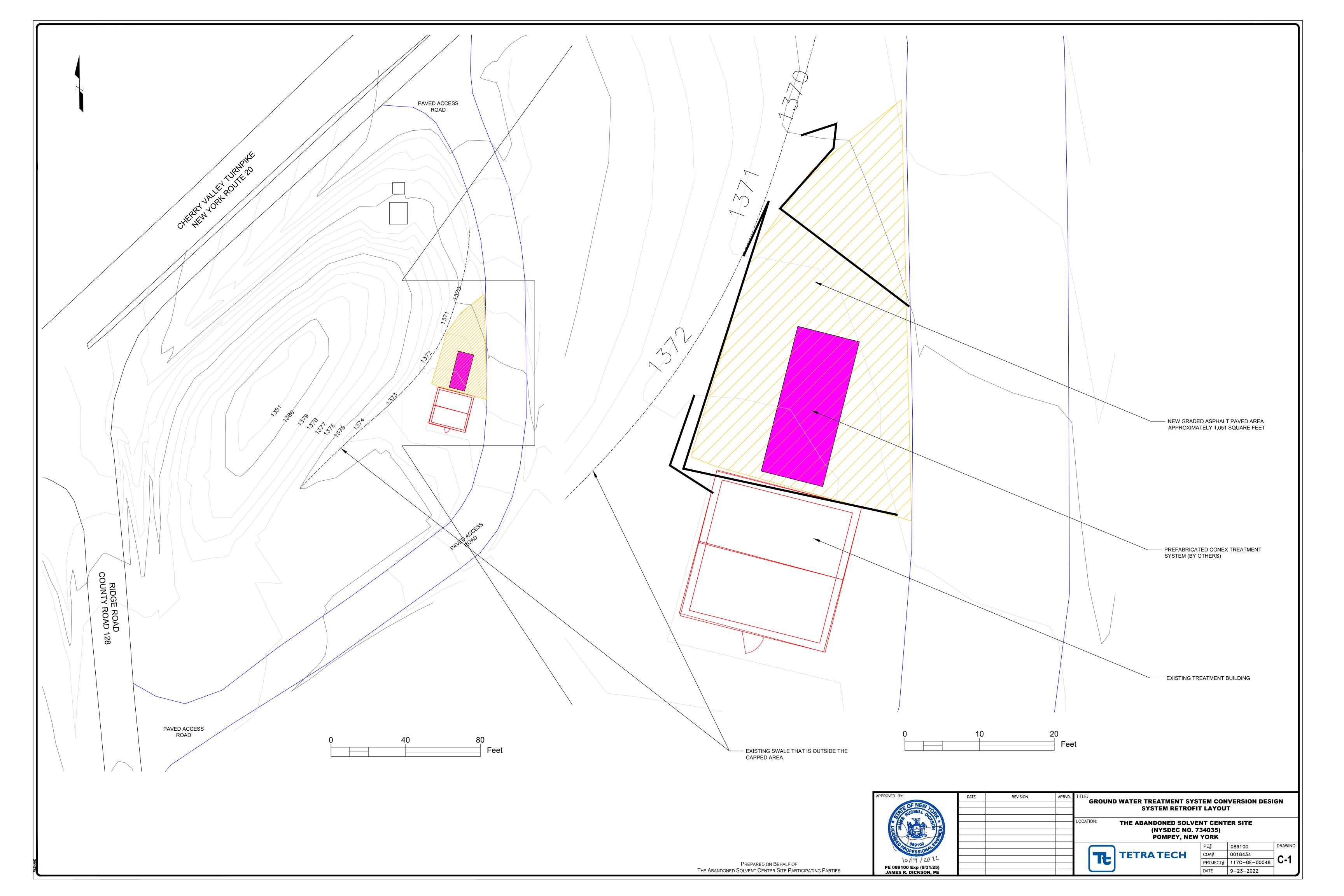
GROUND WATER TREATMENT SYSTEM REPLACMENT DESIGN

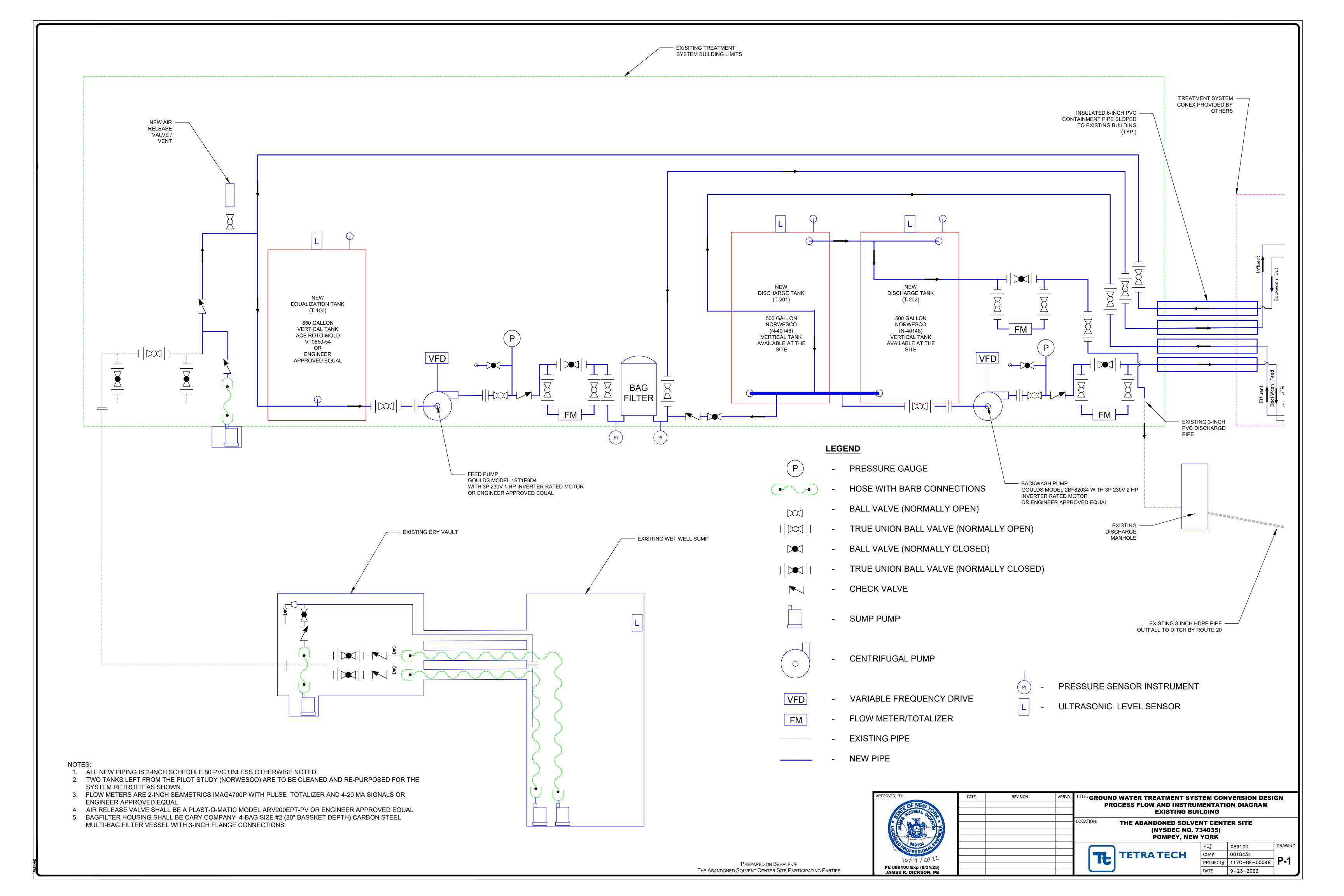
INDEX TO DRAWINGS

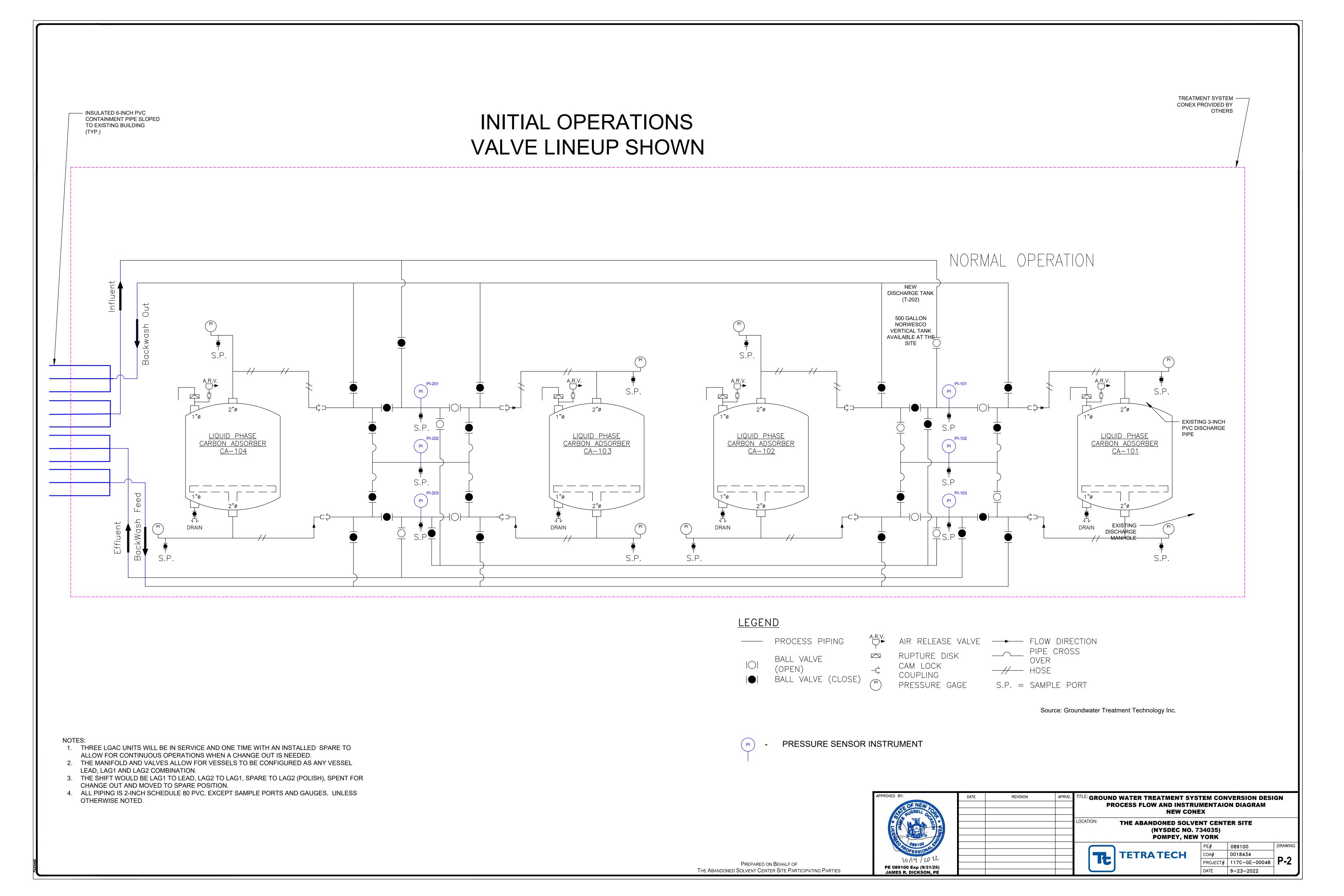
- TS TITLE SHEET
- G-1 EXISTING CONDITIONS
- C-1 SYSTEM RETROFIT LAYOUT
- P-1 PROCESS FLOW AND INSTRUMENTATION DIAGRAM
 EXISTING BUILDING
- P-2 PROCESS FLOW AND INSTRUMENTATION DIAGRAM
 NEW CONEX
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- E-1 ELECTRICAL ONE LINE DIAGRAM
- IC-1 INSTRUMENTATION AND CONTROLS
- M-1 MECHANICAL LAYOUT AND ISO VIEWS
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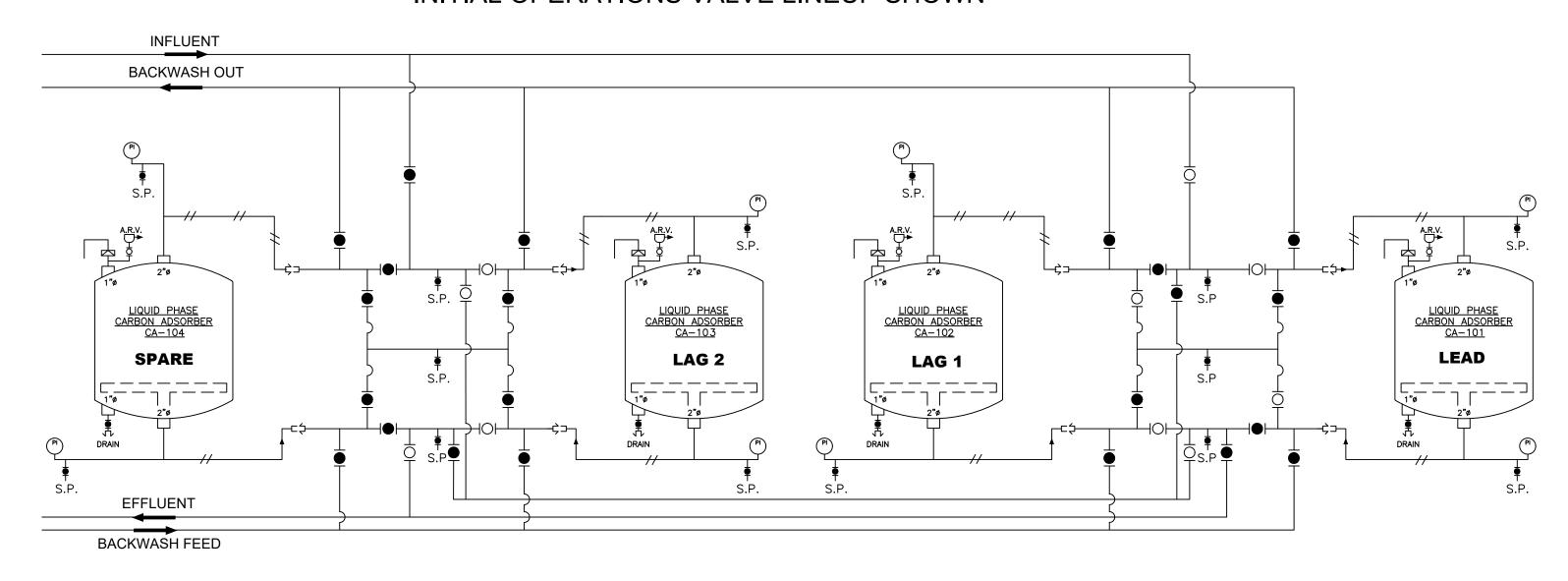




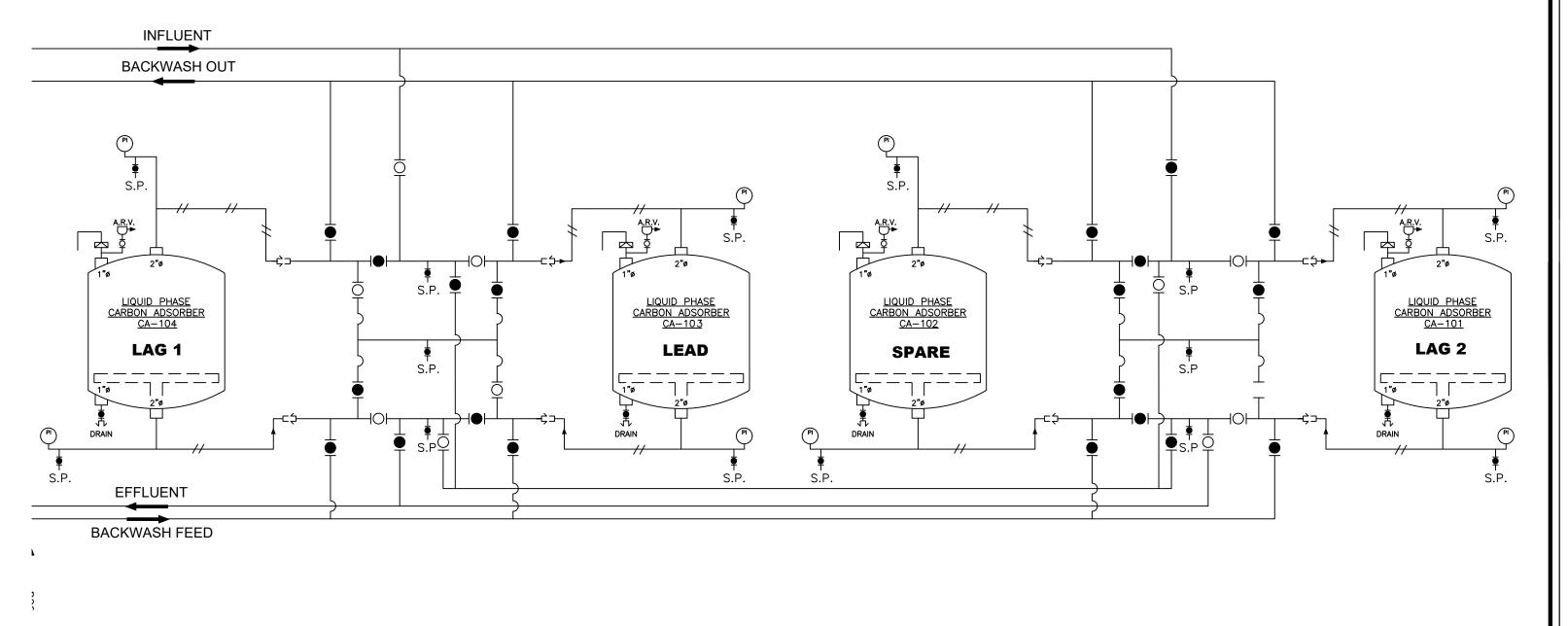




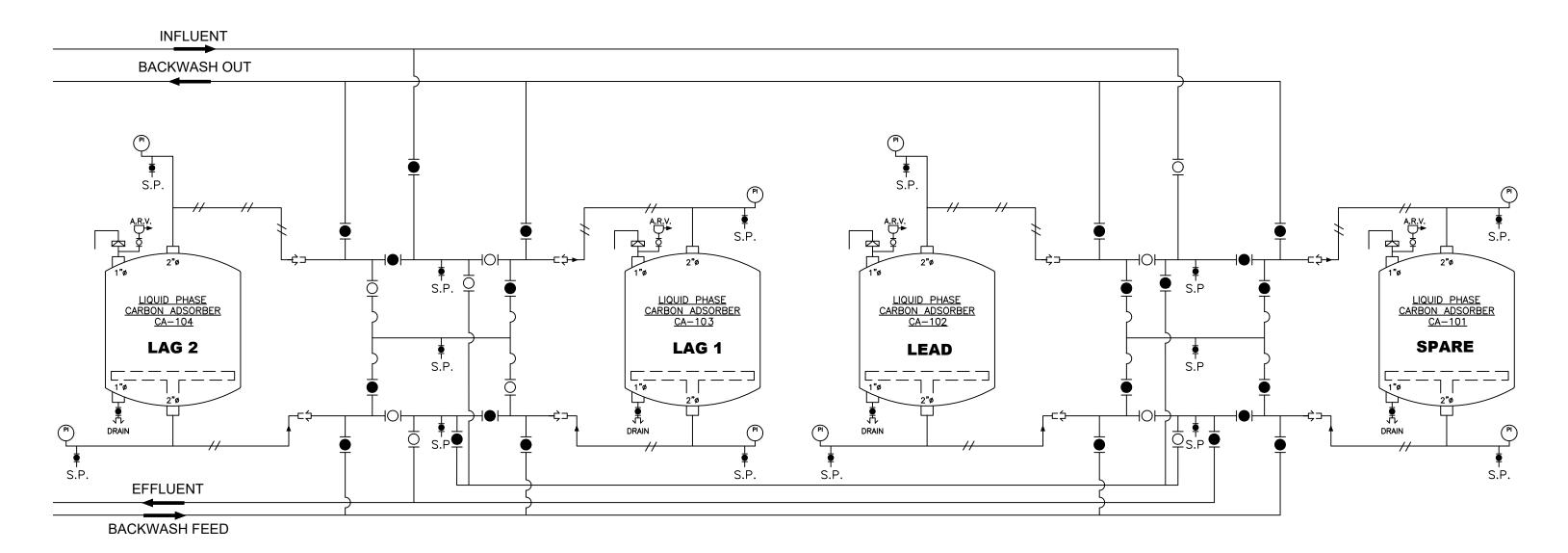
INITIAL OPERATIONS VALVE LINEUP SHOWN



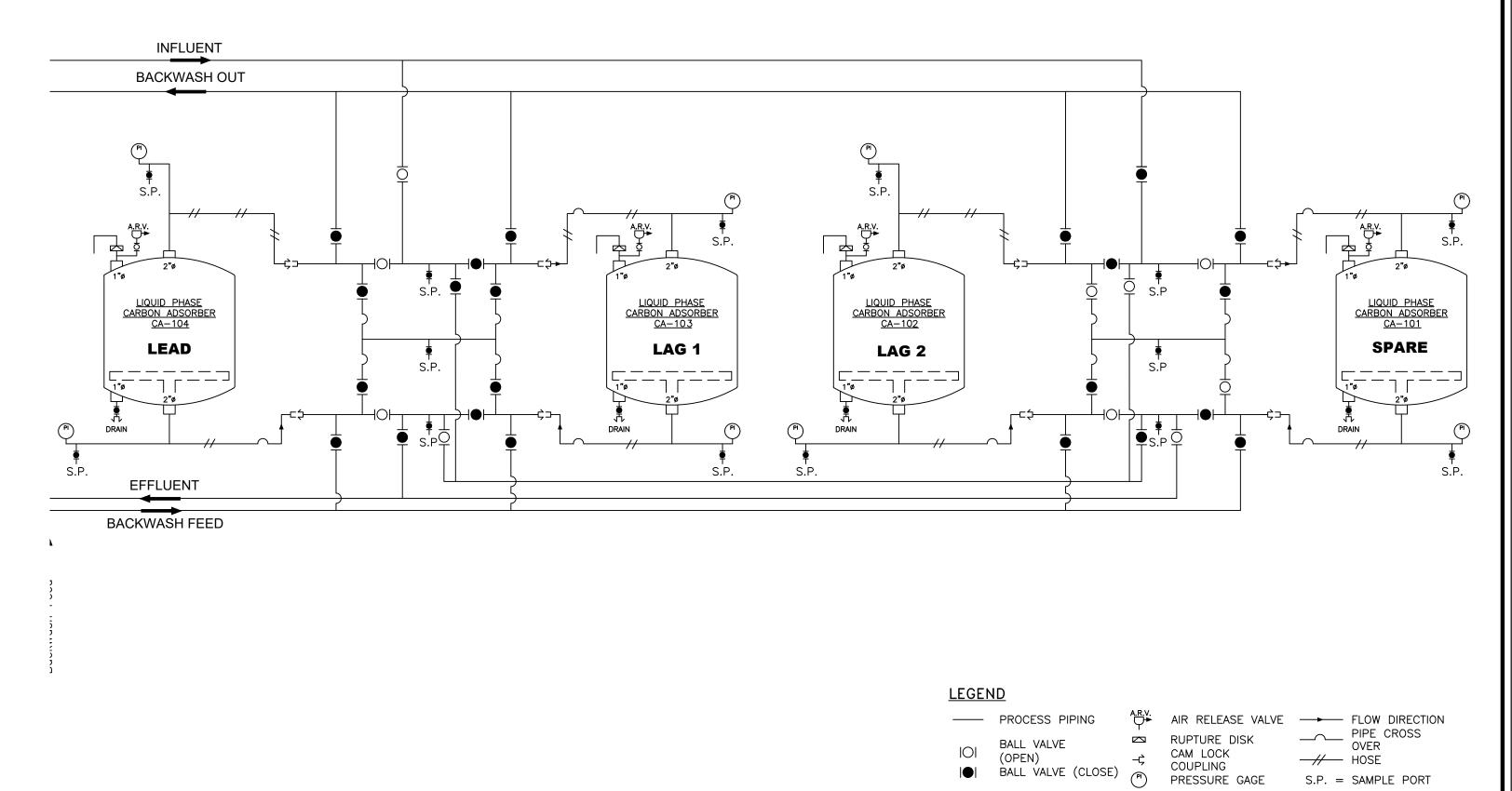
THIRD OPERATIONS VALVE LINEUP SHOWN



SECOND OPERATIONS VALVE LINEUP SHOWN



FORTH OPERATIONS VALVE LINEUP SHOWN

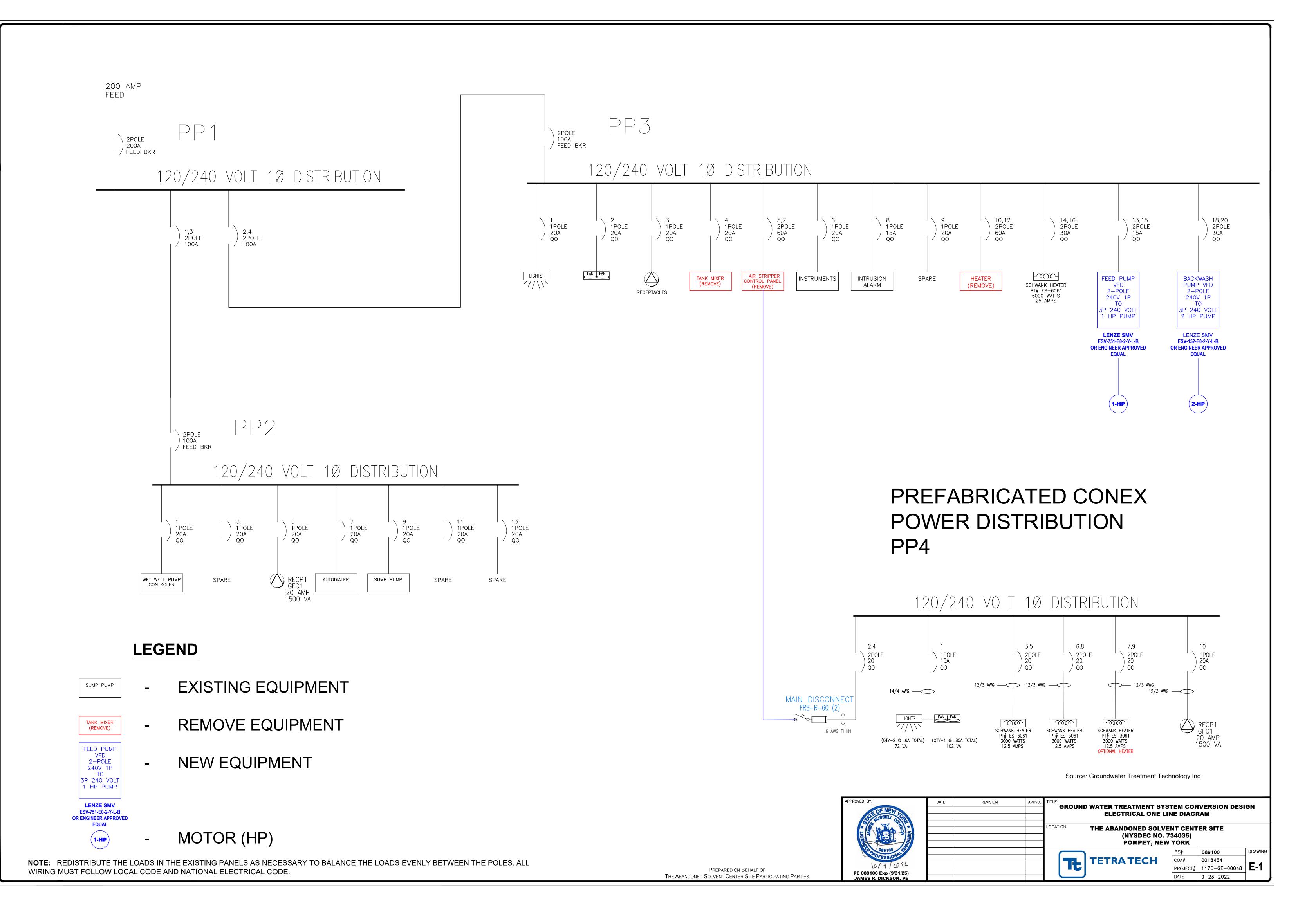


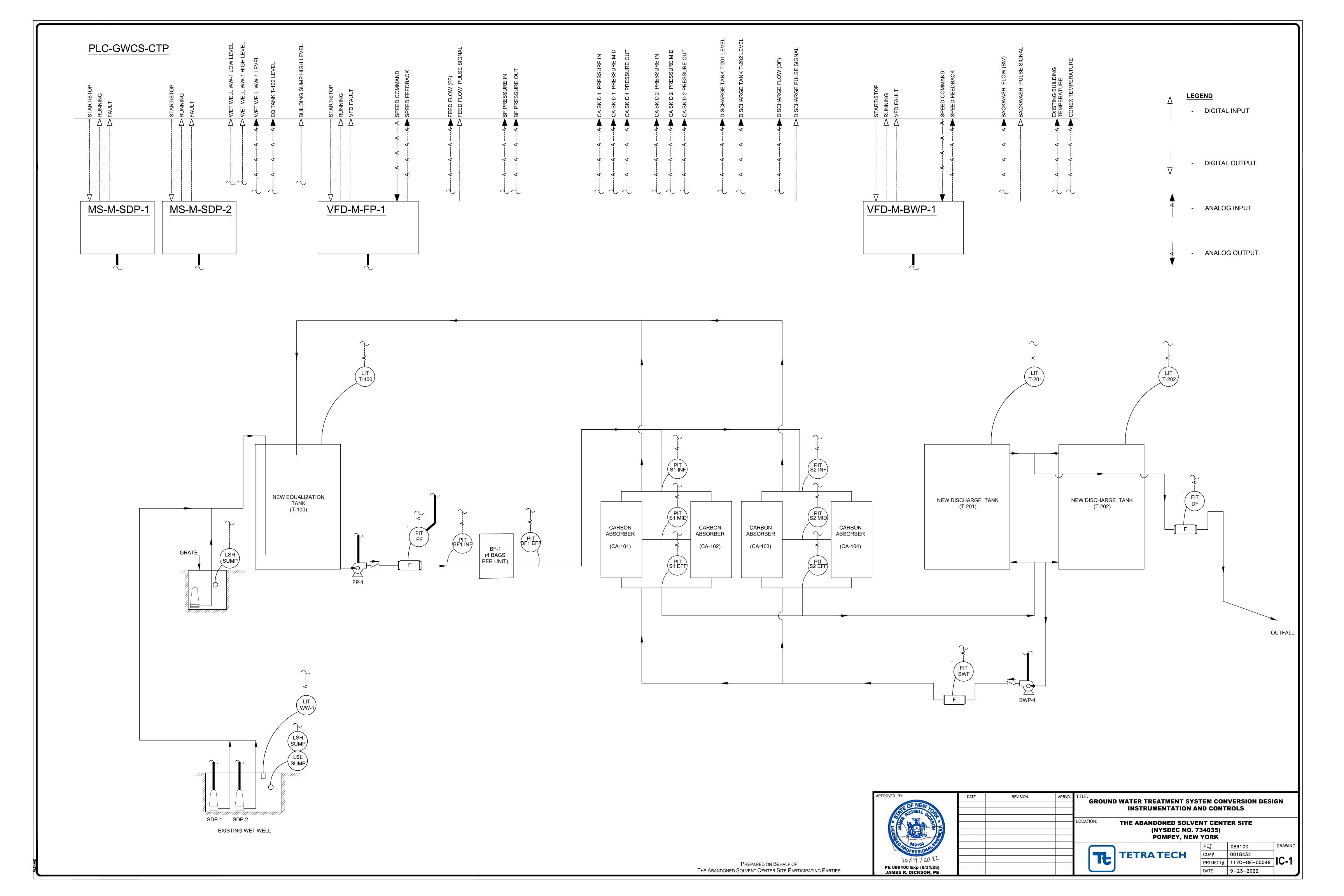
- 1. THREE LGAC UNITS WILL BE IN SERVICE AND ONE TIME WITH AN INSTALLED SPARE TO
- ALLOW FOR CONTINUOUS OPERATIONS WHEN A CHANGE OUT IS NEEDED. 2. THE MANIFOLD AND VALVES ALLOW FOR VESSELS TO BE CONFIGURED AS ANY VESSEL
- LEAD, LAG1 AND LAG2 COMBINATION.
- THE SHIFT WOULD BE LAG1 TO LEAD, LAG2 TO LAG1, SPARE TO LAG2 (POLISH), SPENT FOR
- CHANGE OUT AND MOVED TO SPARE POSITION. (REPEAT)
- 4. ALL PIPING IS 2-INCH SCHEDULE 80 PVC, EXCEPT SAMPLE PORTS AND GAUGES, UNLESS OTHERWISE NOTED.

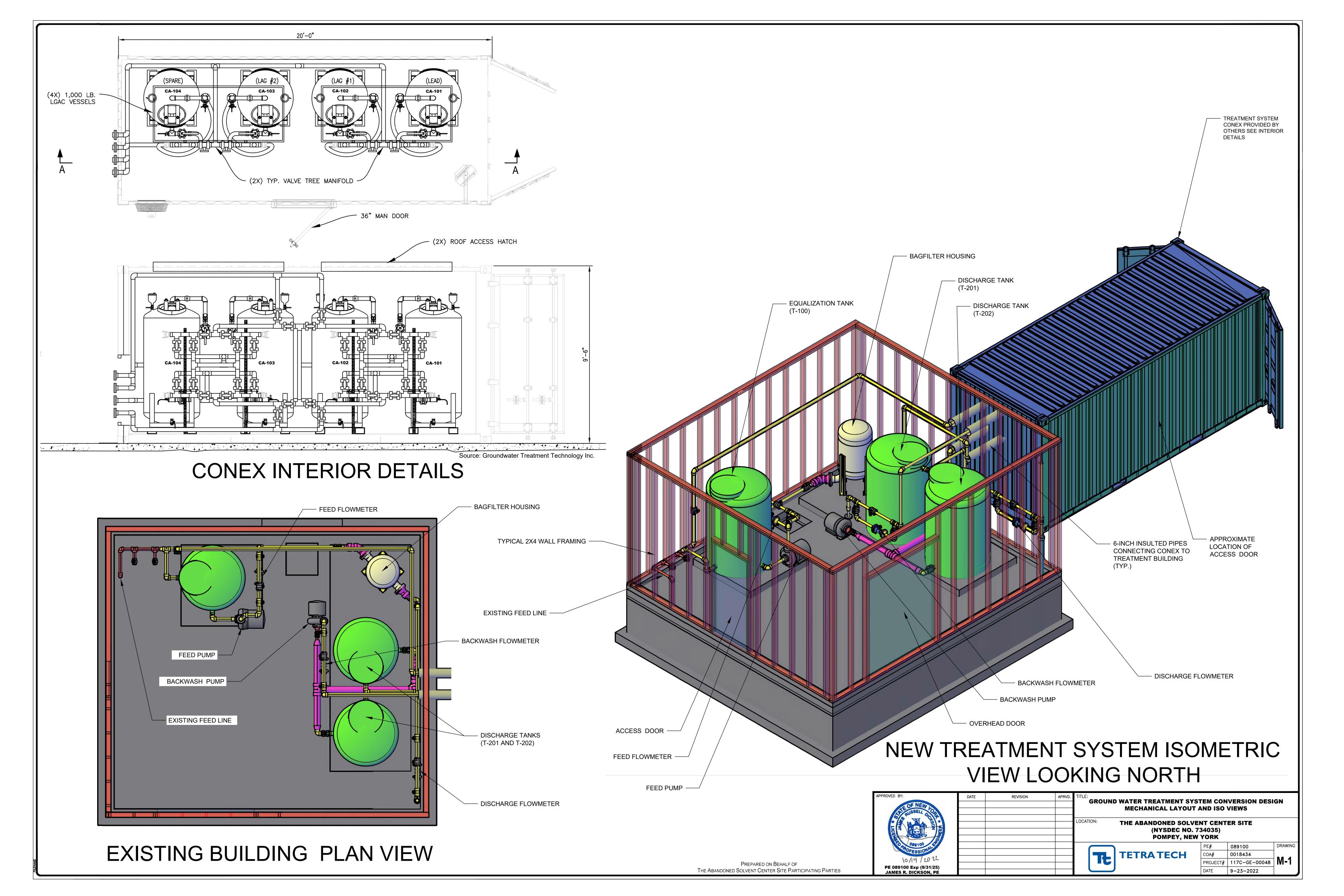
Source: Groundwater Treatment Technology Inc.

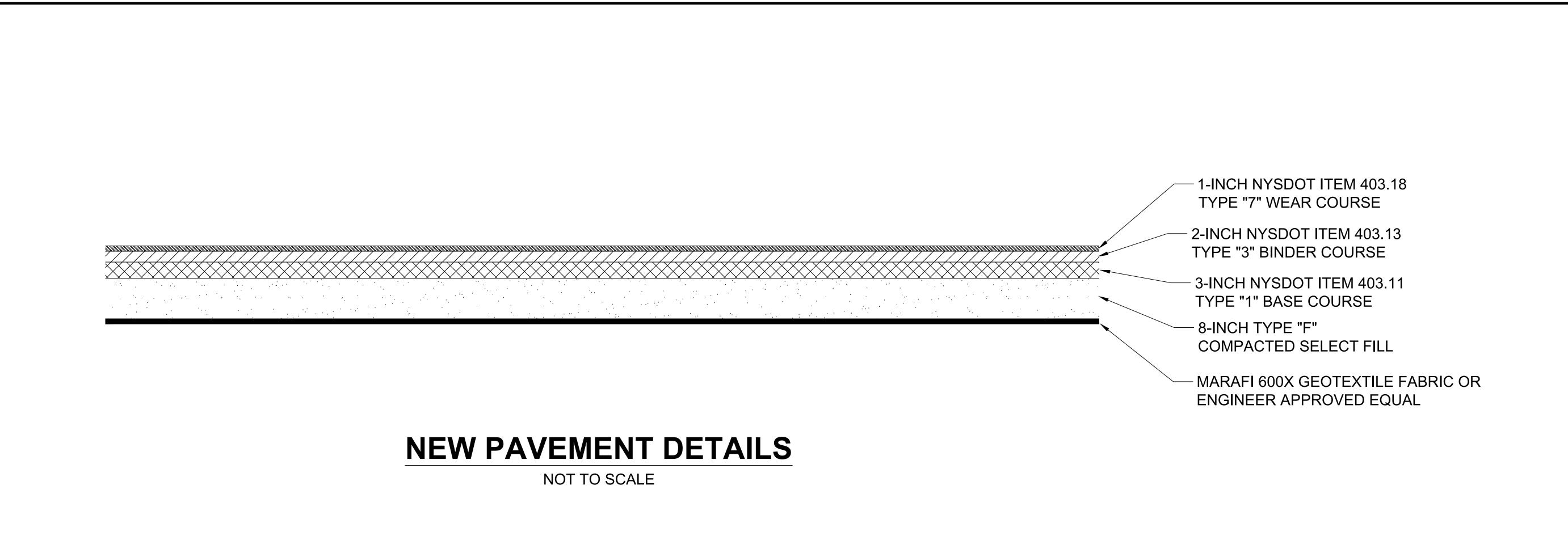
APPROVED BY:	DATE	REVISION	APRVD.	GROUND WATER TREATMENT 3131EM CONVERSION DE			
ATTE OF NEW TON				PROCESS FLOW DIAGRAM - VALVE CONFIGURATION OVER TIN NEW CONEX			
				LOCATION: THE ABANDONED SOLVENT CENTER SITE (NYSDEC NO. 734035) POMPEY, NEW YORK			
089100				PE# 089100 DR			
OFESSION 2				TETRATECH COA# 0018434			
10/14/2022				PROJECT# 117C-GE-00048			
PE 089100 Exp (9/31/25) JAMES R. DICKSON, PE				DATE 9-23-2022			

PREPARED ON BEHALF OF THE ABANDONED SOLVENT CENTER SITE PARTICIPATING PARTIES









PREPARED ON BEHALF OF
THE ABANDONED SOLVENT CENTER SITE PARTICIPATING PARTIES

DATE 9-23-2022

ATTACHMENT 2 (MAJOR EQUIPMENT CUT SHEETS)

BACKWASH PUMP



BACKWASH PUMP

29.07.2022 Customer Date Project Contact

Phone number Project no. Email



2BF82034

Operating data

Pump type		SingleStage Pumps	Fluid		Water
No. of pumps/ Reserv	e e	1 / 0	Operating temperature t	A °F	39.2
Nominal flow	US g.p.m.	74.98	pH-value at tA		7
Nominal head	ft	54.99	Density at t A	lb/ft³	62.4
Static head	ft	0	Kin. viscosity at t A	ft²/s	1.689E-5
Inlet pressure	psi	0	Vapor pressure at t A	psi	14.5
Environmental temper	rature °F	68	Solids		0
Available system NPS	SH ft	0	Altitude	ft	0

Pump data

Make Speed No. of stage	es	rpm	Goulds Water Technology 3600 1	Flow	Nominal Max- Min-	US g.p.m. US g.p.m. US g.p.m.	79.6 101.2	(79.6)
Max. casing	pressure	psi			Nominal	ft	62			
Max. workin	g pressure	psi	34.2	Head	at Qmax	ft	42.2			
Head H(Q=0))	ft	79		at Qmin	ft	78.9			
Weight		lb	101	Shaft p	oower	hp	1.9	(1.9)
	Max.	inch	5	Max. s	haft power	hp	2.2			
Impeller R	designed	inch	4 3/8	Efficie	ncy	%	66.34			
	Min.	inch	2 7/8	NPSH	3%	ft	22.1			

Shaft Seal

John Crane Type of Shaft Seal TYPE-6

Seal Material Code Carbon/Ceramic/Buna

Rotary Carbon Stationary Ceramic Elastomers BUNA Metal Parts 316 SS

Motor data

Manuf acturer	Bluffton	Electric voltage	460 V	Speed	3500 rpm
Specific design	3ph TEPE	Electric current	2.6 A	Frame size	56J
Туре	208-230/460V 56J (E08C32E5EB3G)	Rated power	2 hp	Insulation class	В
		Degree of protection	IP 55	Colour	RAL 5010

Remarks:





29.07.2022 Customer Date

Contact Project Phone number Project no.

Email



2BF82034

PumpMaterials

100 - Casting Cast iron ASTM A48 CL 20

Bronze ASTM B584, C87500 Lead-Free 101 - Impeller

Cast iron ASTM A48 CL 20 108 - Adapter

123 - Water deflector Rubber or Micarta®

240 - Motor Support Steel 240 - Rubber Channel Rubber 304 - Impeller nut* Stainless steel 351 - Gasket-casing Composite

370 - Hex head cap screw adapter to case Zinc-Plated Steel

371 - Hex head cap screw adapter to motor Zinc-Plated Steel 383 - Mechanical Seal Refer Mechanical Seals

408 - Prime plug - priming 0.25 inch NPT Brass

358 - Pipe plug 0.25 inch vent and drain

Remarks:



Customer Date 29.07.2022

Contact Project
Phone number Project no.

Email



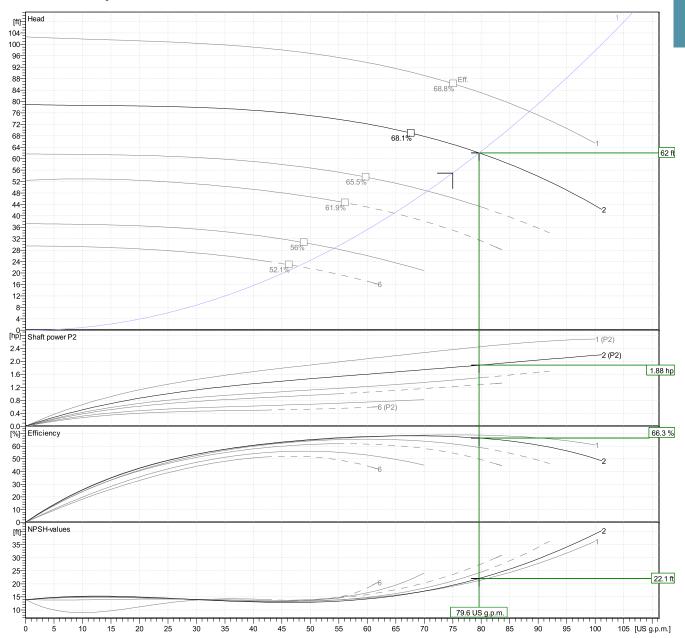
2BF82034

Hydraulic Data

Operating Data Specification		a Specification Hydraulic data (duty point)		Impeller design	
Flow	75 US g.p.m.			Impeller R	4 3/8 inch
Head	55 ft	Flow	79.6 US g.p.m.	Frequency	60 Hz
Static head	0 ft	Head	62 ft	Speed	3600 rpm

Power data referred to:

Water [100%]; 39.2°F; 62.4lb/ft³; 1.69E-5ft²/s Performance according to ISO 9906:2012 – Grade 3B





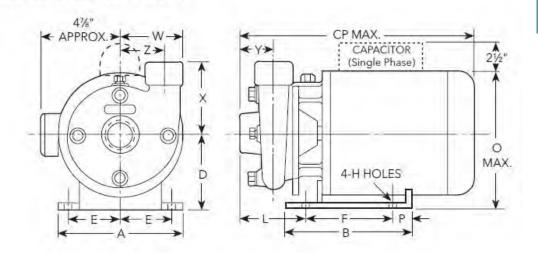
Customer	Date 29.07.2022
Contact	Project
Phone number	Project no.
Email	



2BF82034

Drawing

3642 DIMENSIONS AND WEIGHTS



Dimensions inch

Dimensions	Value
A B C P D E F H L O P W X Y Z	6 ³ / ₄ 5 ⁷ / ₈ 17 ¹¹ / ₁₆ 4 ⁴ / ₈ 2 ¹⁵ / ₁₆ 5 ⁷ / ₁₆ 3 ⁷ / ₈ 7 ⁷ / ₁₆ 4 4 2 ¹⁵ / ₁₆ 4 2 ¹⁵ / ₁₆

Weight 101.4 lb

FEED PUMP



FEED PUMP

Customer Date 29.07.2022
Contact Project
Phone number Project no.
Email



1ST1E9D4

Operating data

Pump type		Single Stage End Suction Pumps	Fluid		Water
No. of pumps/ Reserv	е	1 / 0	Operating temperature t	A °F	39.2
Nominal flow	US g.p.m.	9.999	pH-v alue at tA		7
Nominal head	ft	85.01	Density at t A	lb/ft³	62.4
Static head	ft	0	Kin. viscosity at t A	ft²/s	1.689E-5
Inlet pressure	psi	0	Vapor pressure at t A	psi	14.5
Environmental temper	ature °F	68	Solids		0
Available system NPS	SH ft	0	Altitude	ft	0

Pump data

Make Speed No. of stag	es	rpm	Goulds Water Technology 3500 1	Flow	Nominal Max- Min-	US g.p.m. US g.p.m. US g.p.m.	10.3 44	(10.3)
Max. casing	pressure	psi			Nominal	ft	91			
Max. workin	g pressure	psi	41.5	Head	at Qmax	ft	47.7			
Head H(Q=0	0)	ft	96		at Qmin	ft	95.7			
Weight		lb	43	Shaft	oower	hp	.6	(.6)
	Max.	inch	6 1/8	Max. s	haft power	hp	1.1			
Impeller R	designed	inch	4 3/4	Efficie	ncy	%	38.82			
	Min.	inch	4 1/16	NPSH	3%	ft	3.6			

Shaft Seal

Make John Crane
Type of Shaft Seal Type 21

Seal Material Code Car/SilCar/Viton/316 SS (10K55) (Std.)

1 - Rotating Carbon
2 - Stationary Silicon Carbide
3 - Elastomers Viton
4 - Metal Parts 316 SS

Motor data

Manuf acturer	BMW	Electric voltage	460 V	Speed	3500 rpm
Specific design	3ph TEPE	Electric current	1.6 A	Frame size	56J
Туре	208-230/460V 56J (E06C32E5EB5G)	Rated power	1 hp	Insulation class	В
		Degree of protection	IP 55	Colour	RAL 5010

Remarks:



29.07.2022 Customer Date Contact Project

Phone number Project no. Email 1ST1E9D4



PumpMaterials

100 - Casing AISI 316L SS AISI 316L SS 101 - Impeller 108 - Motor adapter AISI 316L SS 108A - Motor adapter seal vent/flush AISI 316L SS BUNA-N 123 - Deflector 184 - Seal housing AISI 316L SS

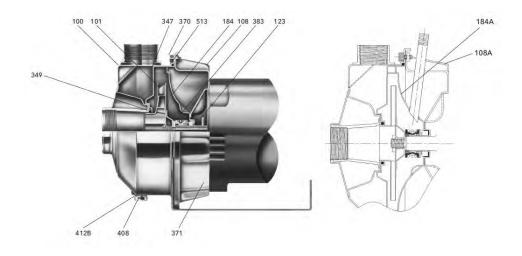
184 A - Seal housing seal vent/flush AISI 316L SS AISI 316L SS 347 - Guidev ane

349 - Seal ring, guidevane 370 - Socket head screws, casing AISI 410 SS 371 - Bolts, motor Plated Steel

383 - Mechanical seal Refer Mechanical Seals 408 - Drain and vent plug, casing AISI 316L SS

412B - O-ring, drain and vent plug Viton (Standard), EPR (Optional) 513 - O-ring, casing Viton (Standard), EPR (Optional)

Motor - NEMA standard, 56J flange



Remarks:



Customer
Contact
Phone number
Email

Date 29.07.2022
Project
Project no.



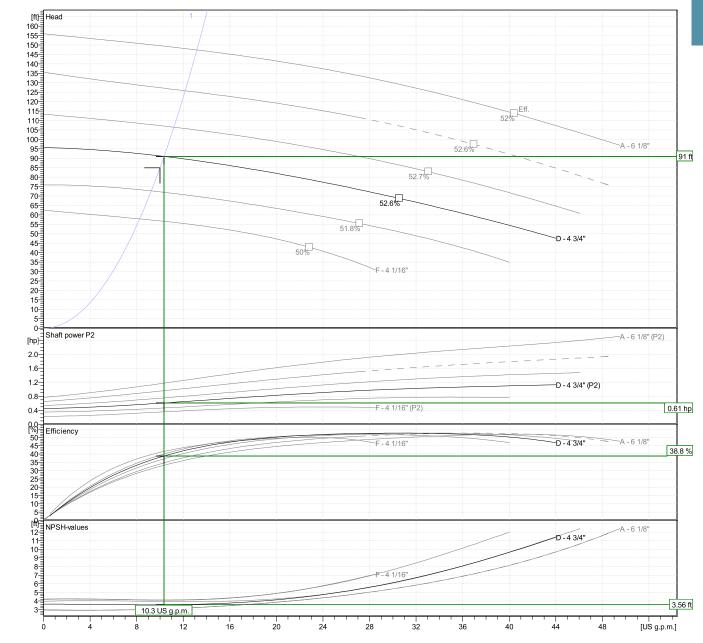
1ST1E9D4

Hydraulic Data

Operating Data Specification		Hydraulic data (duty point)		Impeller design	
Flow	10 US g.p.m.			Impeller R	4 3/4 inch
Head	85 ft	Flow	10.3 US g.p.m.	Frequency	60 Hz
Static head	0 ft	Head	91 ft	Speed	3500 rpm

Power data referred to:

Water [100%]; 39.2°F; 62.4lb/ft³; 1.69E-5ft²/s Performance according to ISO 9906:2012 – Grade 3B



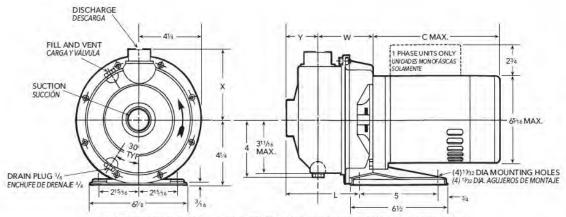


Customer	Date	29.07.2022
Contact	Project	
Phone number	Project no.	
Email		

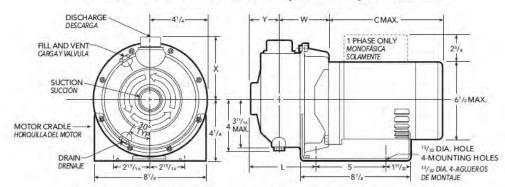


1ST1E9D4

Drawing



ODP* and TEFC* ½, ¾ and 1 HP (standard), ODP* y TEFC* ½, ¾ y 1 HP (estándar)



ODP* and TEFC* 1½, 2, 3 and 5 HP (standard), ODP* y TEFC* 1½, 2, 3 y 5 HP (estándar)

Dimensions inch

Dimensions	Value
C(Max) Length Discharge NPT L P(Max) Suction NPT W X Y	13 ¹ / ₈ 1 4 ⁹ / ₁₆ 7 ³ / ₁₆ 1 ¹ / ₄ 3 ⁵ / ₁₆ 4 ³ / ₈ 2

Weight 43 lb

FILTER HOUSING

Quick Order

Customer Service: <u>630.629.6600</u> Customer Service: 630.629.6600



4-Bag Size #2 (30" Basket Depth) Carbon Steel Multi-Bag Filter Vessel, 3" Flange Home / Industrial Filtration / Filter Vessels & Housings / Multi-Bag Filter Vessels

Part #: 21B22B

4-Bag Size #2 (30" Basket Depth) Carbon Steel Multi-Bag Filter Vessel, 3" **Flange**



Part #: 21B22B

4-Bag Size #2 (30" Basket Depth) Carbon Steel Multi-Bag Filter Vessel, 3" Flange

This high capacity bag filter housing unit is made of carbon steel. The vessel comes with 4 filter bags, carbon steel legs and a standard 304 stainless steel (SS) basket. Pipe size is 3" flange with a 90° elbow outlet. 150 PSI pressure rating. (22-30-3F-3-150-CS-BS-PB-DP)

Product Specifications

Quantity	Qty	Price
1	\$5,578.580 ea.	

Add to Cart

Availability: 7-9 Weeks

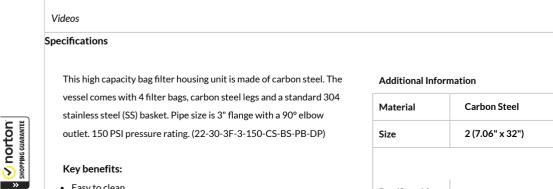
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0	ID TI	neft Protection 🏶	Purchase Guarantee §	Lowest Price Guarantee



Specifications

Q&A

- Lasy to cican
- Adjustable-height legs, standard
- Low pressure drops
- · Carbon steel construction
- Standard 304 SS basket
- Includes DP ports
- Proudly Made in the USA

Downloads:

Filter Housing Worksheet

How to Order a Model a Multi-Bag Vessel

Material:

Carbon steel (CS) is metal alloy that is made of iron and carbon. It is known as a cost-effective alloying material. There are four types of carbon steel that vary in strength level: low carbon steel, medium carbon steel, high carbon steel, and very high carbon steel. Engine parts, car body panels, and select knives are made of carbon steel. The Cary Company also has carbon steel IBC tanks, filter vessels, and drums that work well with many liquids.

Disclaimer: This information has been provided as a general guide. It is the customer's responsibility to select the proper container for product and application compatibility. The Cary Company does hereby disclaim any and all warranties, expressed or implied, including any implied warranty of merchantability or fitness for a particular purpose or use. We are not responsible for consequential damages arising from customer's selection and use of containers, container and label dimensions, and/or closures supplied by us.

Bag/Cartridge Qty	4 Bag
Housing Size	30"
Pipe Size	3" Flange
Outlet Style	90° Elbow
Pressure Rating	150 PSI
Seal	Buna Seal
Basket Style	Standard Basket
Pallet Dimensions	40" L x 80" W x 36" H
Weight	800 lbs.
Country of Manufacture	United States

Q&A

Customer Questions

 ${\bf Can\ you\ ship\ internationally?\ Where\ are\ you\ located?}$

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You May Also Like



4-Bag Size #2 (30" Basket Depth) 304 Stainless Steel Multi-Bag Filter Vessel

Part #: S-4S-22-30

Quantity	Qty	Price
1	\$11,913.000ea.	



4-Bag Size #2 (30" Basket Depth) 304 Stainless Steel Multi-Bag Filter Vessel, 4"

Part #: 21B22F

Quantity	Qty	Price
1	\$10,224.200	Оеа.
2	\$9,654.220	ea.



4-Bag Size #2 (30" Basket Depth) Carbon Steel Multi-Bag Filter Vessel (Configurable)

Part #: S-CS-22-30

Quantity	Qty	Price
1	\$5,155.700	ea.

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Bottle Design &

Manufacturing

Fluorination Barrier <u>Treatment</u>

4-Bag Size #2 (30" Basket Depth) Carbon Steel Multi-Bag Filter Vessel, 3" Flange vvily Cal y

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FLOWMETER

iMAG 4700p

Municipal/Industrial Magmeter Instructions









General Information	
General Information Features Specifications Dimensions Accuracy Flow Rate	Page 3 Page 4 Page 5 Page 6
Installation	
Straight Pipe Recommendations Full Pipe Recommendations Positioning the Meter Installing Gaskets Tightening Flange Bolts Equalization and Grounding (Metal and Plastic Pipe)	Page 8 Page 9 Page 9 Page 10
Connections	
General Cable Information Cable Gland Opening and Sealing Cable Installation Wiring Diagrams Cable Wiring Table	Page 11 Page 12 Page 13
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Sourcing Mode Output Application	Page 16Page 16Page 17Page 18Page 18Page 18
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Troubleshooting & Error Messages	
Problem	Page 23 Page 23
Warranty	
Seametrics Limited Warranty	Back

Note: These instructions cover the iMAG 4700p For details on the iMAG 4700 or 4700r, see the *iMAG 4700* or *iMAG 4700r Municipal/Industrial Magmeter Instructions*.

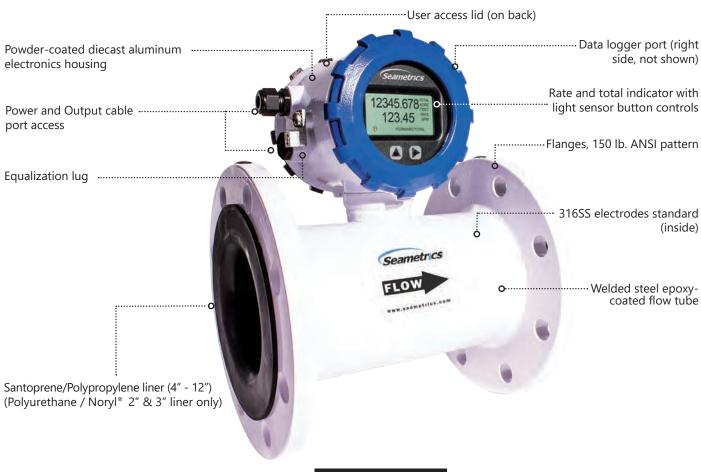
The **iMAG-Series** are the most economical flanged electromagnetic flowmeters on the market. With electrodes designed to discourage fouling, it is available in 2" to 12" pipe in municipal or industrial water, waste and reclaimed water, pump stations, and packaged plant applications. Minimal straight pipe requirements allow iMAG-Series meters to be used in piping configurations where there is little space between the meter and an elbow.

iMAG-Series meters are CE certified, certified to NSF/ANSI standard 61 and are rated IP68 for applications where the meter may be operated under water to a depth of at least 10 feet (3 meters) continuously.

Both rate and total indication are standard. Rate and total units and pulse scaling can be set via the front panel touch key pad by the user. Bidirectional flow reading is standard with totals available in forward, reverse, net flow, batch forward flow, and batch reverse flow. Built-in data logging is available as an option for secure flow logging.

A power/output cable allows outputs for use with a variety of Seametrics and other displays and controls for remote reading and telemetry applications. Pulse output and 4-20mA passive current loop are standard on all units. Additionally, high speed digital, and Modbus® protocol outputs are optional. The iMAG 4700p can be supplied with an optional internal AC power supply.

Features



No moving parts

Specifications*

Pipe Sizes		2", 3", 4", 6", 8", 10", 12"								
Flanges 150 lb. ANSI Pattern										
Pressure		150 psi (10.3 ba	50 psi (10.3 bar) line pressure							
Temperature	Operating	10° to 140° F (-	0° to 140° F (-12° to 60° C)							
	Storage	-40° to 158° F (-	-40° to 158° F (-40° to 70° C)							
Accuracy		±0.75% of read flow cutoff to n	ing on iMAG 4700p naxi. flow rate of 10	and 4700r (±1.09 m/sec	% iMAG 4700), ±0	0.025% of full-scale	flow from low			
Low Flow Cut	off	0.5% of maximu	um flow rate							
Material	Body (2"-12")	Welded steel, e	poxy-coated							
	Liner (2" & 3")	Polyurethane/N	loryl®							
	Liner (4"-12")	Santoprene flar	nge/Polypropylene l	iner body						
	Electronics Housing	Powder-coated	diecast aluminum							
	Electrodes	316 stainless st	eel							
Display	Туре	128x64 dot-ma	trix LCD							
	Digits	5 Digit Rate			8 Digit Total					
	Units	Rate Volume Ui	nits	Rate Time Units	Total Volume Ur	nits				
	Please Note: All iMAG meters are factory set for gallons per minute (GPM) rate and gallons total. If other units are required, they can be set in the field.	Gallons Liters Barrels(42 gal) Cubic Feet Cubic Meters	Million Gallons ² Mega Liters ² Imperial Gallons Million Imperial Gallons ²	Second Minute Hour Day	Gallons Gallons x 10 Gallons x 100 Gallons x 1000 Million Gallons Liters Kilo Liters Mega Liters	Barrels (42 gal) Cubic Meters Cubic Meters x 1000 Cubic Feet Cubic Feet x 100 Cubic Feet x 1000 Second Foot Day Million Cubic Feet	Acre Feet Acre Inches Imperial Gallons Imperial Gallons x 1000 Million Imperial Gallons Fluid Ounces			
	Bidirectional ¹	Forward Total, F	Reverse Total, Net To	otal, Batch Forwar	d Total, Batch Re	verse Total³				
Power	DC Power	9-36 Vdc @ 250	mA max, 30 mA av	verage						
	Battery Backup (Not for use as primary power)		nits: One lithium 7.2\ its: One 9V alkaline).				
	AC Power	85-264Vac, 50/	60Hz, 0.12A <i>(iMAG 47</i>	700r and 4700p only)					
Scaled Pulse	Signal	Current sinking	pulse, isolated, 36 \	Vdc at 10 mA max	(
Output	Pulse Rates	minimum pulse				one-half of pulse pe ion meters, pulse wi				
Options	4-20mA Current Loop	Isolated, passiv	e, 24Vdc, 650 Ω max	kimum current loc	op					
	High Speed Digital	Isolated, open o	collector, 24 Vdc (iM)	AG4700p only)						
	Serial Communications	Isolated, asynch	nronous serial RS485	5, Modbus® RTU	protocol					
Cable	Power/Output Cable	20ft (6m) standard length polyurethane jacketed cable—for power and outputs (lengths up to 200' available).								
	Remote Display Cable	20ft (6m) standard length polyurethane jacketed cable—for connection between meter and remote display (lengths up to 200' available). (iMAG 4700r)								
Conductivity		>20 microSiemens/cm								
Empty Pipe D	etection	Hardware/softv	vare, conductivity-ba	ased						
Regulatory		C € (EN 61326),	2"-12" certified to I	NSF/ANSI standaı	rd 61 60°C (140°F	=)				
Environmenta	al	NEMA 6P, IP68	(10ft (3m) depth, co	ontinuously)						

Modbus is a registered trademark of Schneider Electric.

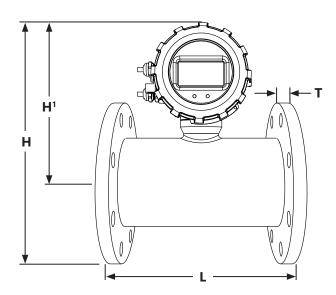
^{*} Specifications subject to change. Please consult our website for the most current data (www.seametrics.com).

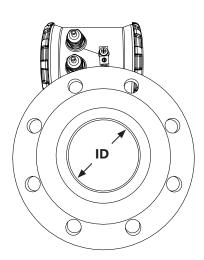
¹ If forward and reverse flow data needs to be sent to another device, either the Digital or Modbus output is required.

² Rate Time Unit is available in Day only.

³ Forward and reverse flow totals are non-resettable. Batch forward and batch reverse totals can be reset.

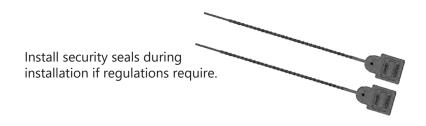
Dimensions



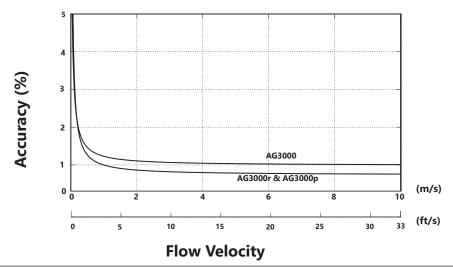


iMAG 4700	L		н	1 1	ŀ	4	1	Γ	ı	ID	Bolt Holes		y Weight 4700p
Meter Size	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	#	lbs	Kg
2"	7.9	200	7.8	198	10.8	274	.62	15.7	1.76*	45*	4	21	9.5
3″	7.9	200	8.35	212	12.1	307	.62	15.7	2.68*	68*	4	27	12.3
4"	10.12	257	8.6	218	13.1	332	.62	15.7	3.12	79	8	34	15.5
6"	12.09	307	9.4	239	14.9	378	.69	17.5	5.05	128	8	50	22.5
8"	14.14	359	10.4	264	17.15	435	.69	17.5	6.44	164	8	71	32
10"	18.08	459	11.5	292	19.5	495	.69	17.5	8.61	219	12	130	59
12"	19.68	500	12.5	317	22	559	.81	20.6	10.55	268	12	170	77
Flanges	anges Standard ANSI 150 lb. drilling									Cable	e 1 lb.		

Note: 'L' dimension is total from liner face to liner face *Average ID

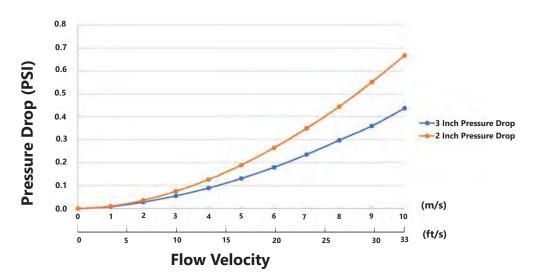


iMAG Accuracy



2" & 3" Pressure Drop

Note: No pressure drop in 4"-12" meters

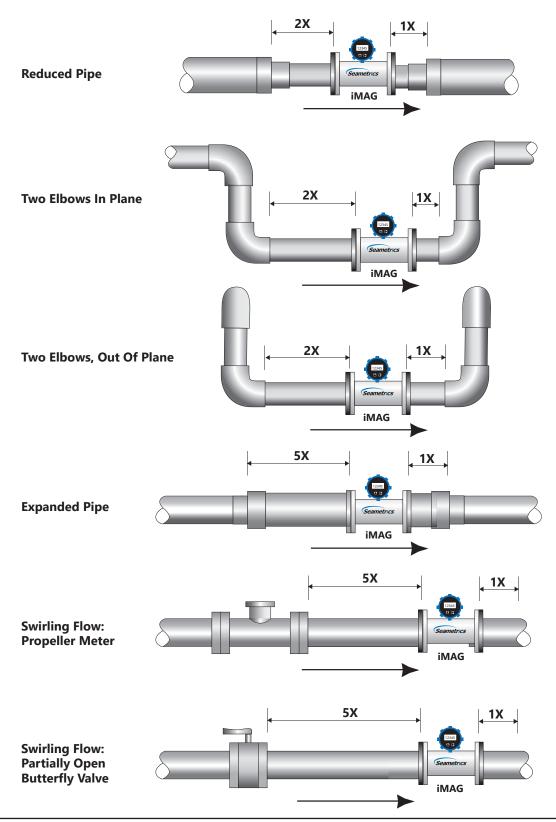


Flow Rate (2" - 12")

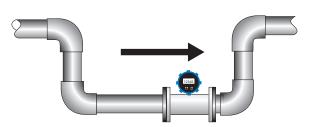
Pipe Size (Inches in diameter)	2"	3″	4"	6"	8"	10"	12"
Max Flow Rate (Gallons/Minute)	321	722	1285	2891	5140	8031	11565
Cut-off (min) Flow Rate (Gallons/Minute)	2	4.0	6.43	14.46	25.70	40.15	57.82
Max Flow Rate (Liters/Second)	20.25	46	81	182	324	507	730
Cut-off (min) Flow Rate (Liters/Second)	0.13	0.23	0.41	0.91	1.62	2.54	3.65
Max Flow Velocity (Meters/Second)	10	10	10	10	10	10	10

Straight Pipe Recommendations (X = diameter)

NOTE: These configurations are to be used as general guidelines and do not cover every possible installation. A combination of two or more obstructions will require additional straight pipe. If there is any concern about the length of pipe required for a specific application, please contact your local dealer.

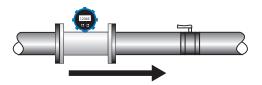


Full Pipe Recommendations



Recommended:

Keep pipe full at meter for accuracy



Recommended:

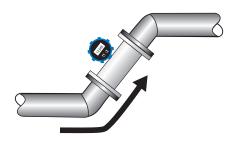
Keeps pipe full at meter for accuracy





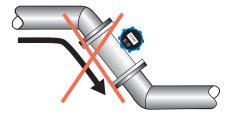
Not Ideal:

Post-valve cavitation can create air pocket



Recommended:

Allows air to bleed off



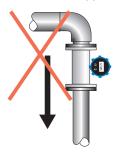
Not Ideal:

Air can be trapped



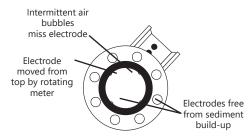
Recommended:

Allows air to bleed off



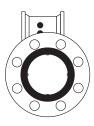
Not Ideal:

Air can be trapped



Recommended:

Improved accuracy results from unimpeded electrodes



Not Ideal:

Air bubbles and sediment on the electrodes can affect accuracy

Positioning the Meter



CAUTION: These flow sensors are not recommended where installation may expose the flow sensor to boiler pressure and temperature. Maximum recommended operating temperature of 140° F (60° C).

These meters can be installed horizontally, vertically (with upward flow), and in any radial position. Using a check valve on the upstream side of the meter, and/or an air vent (vacuum relief valve) in the same, unobstructed run of pipe as the meter, is required in any installation where the meter may be exposed to suction when the system is not in normal operation. Suction can cause damage to the liner. Liner damage caused by suction, without the use of a check valve and/or air vent, may void the warranty.

Straight Pipe Recommendations. The iMAG requires straight pipe before and after the meter for best accuracy. However, the ability of electromagnetic meters to average the flow across the entire pipe allows for shorter straight pipe recommendations than most mechanical meters (see page 7).

Full Pipe Recommendations. To prevent false readings, this meter is designed to indicate 'EMPTY PIPE' if one or more electrodes is exposed. For highest accuracy, install the meter so that the pipe will be full when there is flow. If air bubbles may be present in the pipe or sludge accumulation is an issue, rotate the meter by one flange hole to position the control housing at a 45° angle (see diagrams on page 8).

Fittings. The iMAG has ANSI 150 lb. drilled flanges and will mate with any other ANSI 150 lb. flanges. *See table on page 10 for flange bolt tightening torque specifications.*

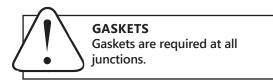
Calibration. The iMAG is factory-calibrated before shipping. The frequency of recalibration will depend on the needs of each application and local regulatory policies.

Chemical Injection. When the iMAG is used in a chemical injection application, the chemical injection point must be placed downstream of the magmeter OR far enough upstream for complete mixing to occur before the fluid reaches the meter. When unmixed chemical alternates with water passing through the meter, the rapid changes in conductivity may cause sudden spikes and drops in the meter's reading, resulting in inaccurate measurement. The magmeter will restabilize, however, with a steady flow of fluid of uniform conductivity.

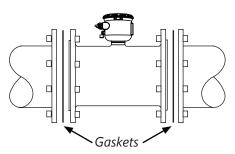


CAUTION: In chemical injection applications, install chemical injection point downstream of magmeter, or far enough upstream to allow complete mixing of fluids.

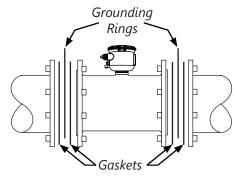
Installing Gaskets



- 1. Be sure all mating surfaces are smooth and free of debris.
- Install Seametrics provided gaskets, or equivilent, on each end of meter as shown in diagrams below.
 If using grounding rings, install one gasket on each side of the grounding ring.
- 3. Failure to install gaskets will void warranty.



Installation without grounding rings

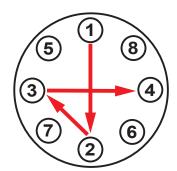


Installation with grounding rings

Tightening Flange Bolts

NOTE: Mating pipe flanges must be ANSI 150# full face (FF) and/or raised face (FT).

- 1. Tighten flange bolts in an alternating pattern.
 - Tighten left flange bolt-1 to 20% recommended torque.
 - Tighten right flange bolt-1 to 20% of recommended torque.
 - Repeat steps a and b for each bolt in an alternating order, such as shown at right, tightening to 40%, then 60%, then 80%, and then 100%.
- Test for leaks.
- If needed, tighten further in 10% increments until leaking stops. DO NOT over-tighten. Overtightening can cause serious damage to the flow meter.
- 4. Recheck after 24 hours, adjusting if needed.



Suggested Tightening Sequence



Caution: Improper tightening sequence can cause serious damage to the flow meter.

- Do not tighten one side at a time.
- Do not tighten each bolt completely at one time.

SUGGESTED FLANGE BOLT TORQUE

	Liner					
Pipe Size	ft-lb	Nm				
2"	18	25				
3"	25	34				
4"	20	27				
6"	42	57				
8"	65	88				
10"	73	99				
12″	97	132				

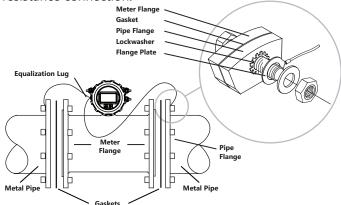
Equalization and Grounding



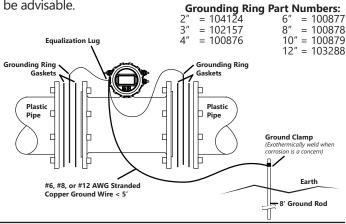
WARNING: ELECTRICAL SHOCK HAZARD

When the iMAG is installed in a plastic piping system, or when externally powered, the piping system must be grounded to meet national and local electrical safety codes. Failure to do so can result in electrocution.

Metal Pipe Installations. To equalize the electrical potential of the fluid, the iMAG meter, and the surrounding pipe, secure the flange plates (factory-installed on the equalization wire) to both pipe flanges at one of the bolt holes, as shown below. Be sure the lock washer fits between the pipe flange and the flange plate. For the best electrical bonding, remove rust and paint to expose clean, bare metal where the equalization flange plate lock washer contacts the pipe flange. Connection must be inspected periodically for corrosion to maintain the necessary low resistance connection.

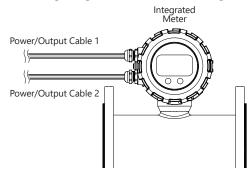


Plastic Pipe and Electronically Noisy Installations. When the iMAG 4700 is installed in plastic pipe or in an electrically noisy system (near a VFD etc.), grounding rings are recommended. As shown in the diagram below, the equalization wires should be solidly connected to the grounding ring tabs instead of the flange bolts as in metal piping installations. Where lightning is a threat, or in severe electrical environments, an optional connection to a nearby equipment ground or ground rod may be advisable.

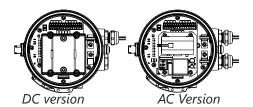


General Cable Information

In the iMAG 4700p meter, there are a maximum of two Power/Output cables that can be installed. These cables contain the wires for any available outputs (scaled pulse, 4-20mA, Modbus®, and Digital) and power (DC or AC). (See Cable Wiring Diagrams and Cable Wiring Table.)



The iMAG 4700p is available in either DC or AC versions.



If the meter is configured with AC power, one of the Power/ Output cable ports must be reserved for AC power only. We do not recommend combining AC power signals with any of the meter outputs in a single cable. If the meter is configured for DC power, you may have one or two cables, depending on configuration. (See Cable Wiring Diagrams.)

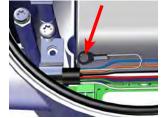
Cable Gland Opening and Sealing



WARNING: Improper sealing of glands or cables will invalidate any warranty. If plugs or cable glands are removed, reinstall using Teflon pipe sealant, or tape, to ensure maximum moisture protection.



Remove plug & o-ring. Insert cable gland/strain relief. Feed cable through cable gland.



Clamp cable with strain relief clips. Attach drain wire lug to bracket post.



Torque cable gland sealing nut to 22 in-lbs.

Cable Installation

1. On the <u>back</u> of the meter, unscrew the <u>black</u> user access lid and remove it.

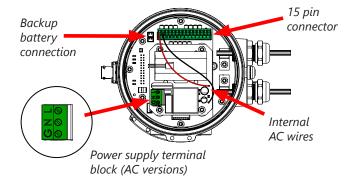


- 2. Remove the 15 pin screw connector from its bag.
- 3. Remove the plug and o-ring from the cable port(s) where you want to insert the cable(s).
- 4. Install cable gland(s) using Teflon pipe sealant, or tape, and insert cable end(s).
- Strip cable jacket and conductors and install the wires into the 15 pin screw connector in their respective locations for your options, Modbus®, pulse, etc. (See Cable Wiring Table for details.)

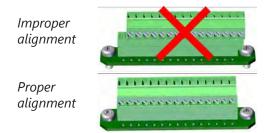


- If using AC power version continue here. If not, then skip to step 11. If AC then take the red and black wires coming out of the AC supply board and install in POWER+ and POWER- (red wire to pin 15, black wire to pin 14).
- 7. When the AC power supply board is installed, 85-264 VAC power is supplied via a 3 conductor power cord. If installed outdoors or less than 33ft. (10m) from a utility power service entrance, AC power should be supplied via a properly-grounded surge suppression device.

- 8. Remove the plug and o-ring from the AC cable port.
- 9. Install cable gland and insert cable end.
- Strip cable jacket and conductors and install 3 conductor power cable and wire to Line (L), Neutral (N) and ground (G) positions on power supply terminal block.



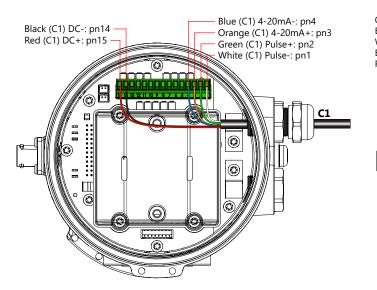
11. Plug the 15 pin screw connector into its socket. Be sure all pins align properly and that the connector has not slipped to one side.

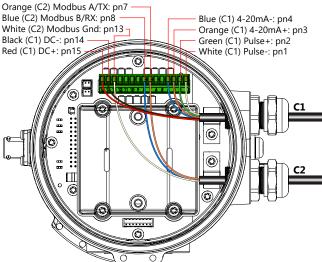


- 12. Plug the backup battery cable into either of the two connectors to the left of the 15 pin connector. (Standard backup batteries are two 3.6V "D" lithium cells. For the AC option, the backup battery is one 9V alkaline cell.)
- 13. Secure the cables inside the internal strain relief clip and tighten the cable gland sealing nut securely (torque nut to 22 in-lbs). A loose nut could cause moisture ingress and compromise the meter head's IP68 rating, voiding the warranty.
- 14. Reinstall the user access lid. Be sure to avoid crossthreading the lid and to not pinch any wires with the lid.

Wiring Diagrams

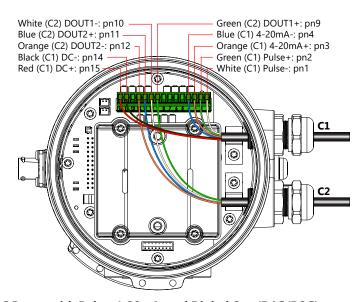
On the back of the meter, unscrew the black user access lid and remove it. Remove the 15 pin screw connector from its bag. Install the wires through the cable glands into the 15 pin screw connector in their respective locations. Plug the 15 pin screw connector into its socket. ($C1 = power/output \ cable 1$, $C2 = power/output \ cable 2$)



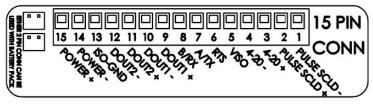


DC Power with Pulse and 4-20mA (D1X/D2X)

DC Power with Pulse, 4-20mA, and Modbus® (D1S/D2S)



DC Power with Pulse, 4-20mA, and Digital Out (D1G/D2G)

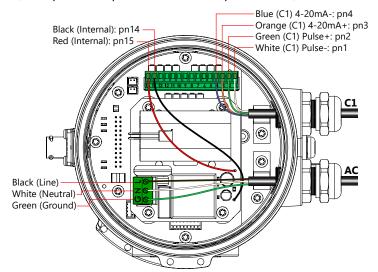


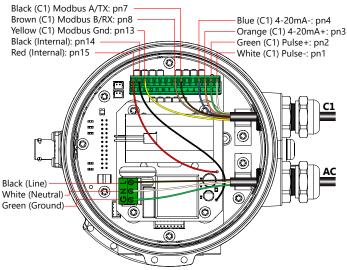
Plug the backup battery cable into either of the two connectors to the left of the 15 pin connector.



Wiring Diagrams (continued)

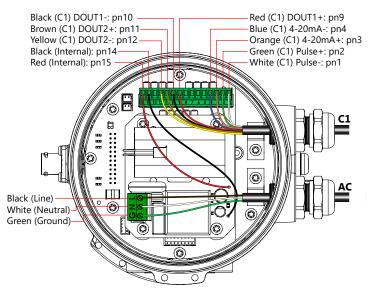
On the back of the meter, unscrew the black user access lid and remove it. Remove the 15 pin screw connector from its bag. Install the wires through the cable gland into the 15 pin screw connector in their respective locations. Connect internal black and red wires to pins 14 and 15, respectively. Plug the 15 pin screw connector into its socket. Install AC power cable through cable gland and connect to AC connector, as shown. (C1 = power/output cable, AC = AC power cable)





AC Power with Pulse and 4-20mA (A1X/A2X)

AC Power with Pulse, 4-20mA, and Modbus® (A1S/A2S)

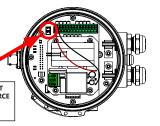


AC Power with Pulse, 4-20mA, and Digital Out (A1G/A2G)



Plug the backup battery cable into either of the two connectors to the left of the 15 pin connector.





Cable Wiring Table

PIN	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
O ID	PWR+	PWR-	ISO- GND	DOUT 2 -	DOUT 2 +	DOUT 1 -	DOUT 1+	B/RX	A/TX	RTS	VISO	4-20 -	4-20 +	PULSE SCLD+	PULSE SCLD-
D1X/ D2X	RED C1	BLACK C1										BLUE C1	ORNG C1	GREEN C1	WHITE C1
D1S/ D2S	RED C1	BLACK C1	WHITE C2					BLUE C2	ORNG C2			BLUE C1	ORNG C1	GREEN C1	WHITE C1
D1G/ D2G	RED C1	BLACK C1		ORNG C2	BLUE C2	WHITE C2	GREEN C2					BLUE C1	ORNG C1	GREEN C1	WHITE C1
A1X/ A2X	RED INT	BLACK INT										BLUE C1	ORNG C1	GREEN C1	WHITE C1
A1S/ A2S	RED INT	BLACK INT	YELLOW C1					BROWN C1	BLACK C1			BLUE C1	ORNG C1	GREEN C1	WHITE C1
A1G/ A2G	RED INT	BLACK INT		YELLOW C1	BROWN C1	BLACK C1	RED C1					BLUE C1	ORNG C1	GREEN C1	WHITE C1

(C1 = power/output cable 1 C2 = power/output cable 2 INT = Internal AC power wires)

Option IDs

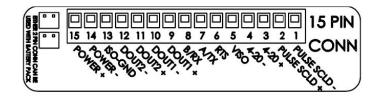
O ID POWER SOURCE / OUTPUT(S)

D1X/D2X = DC POWER / PULSE SCALED AND 4-20mA

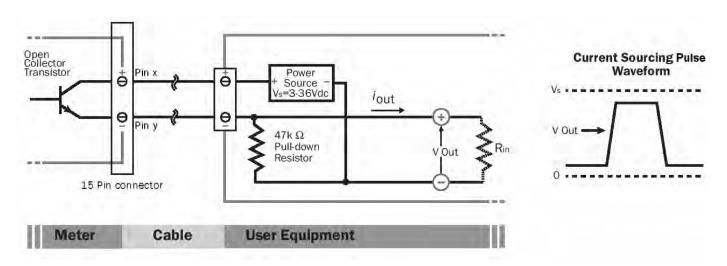
D1S/D2S = DC POWER / PULSE SCALED, 4-20mA, AND MODBUS® **D1G/D2G** = DC POWER / PULSE SCALED, 4-20mA, AND DIGITAL

A1X/A2X = AC POWER / PULSE SCALED AND 4-20mA

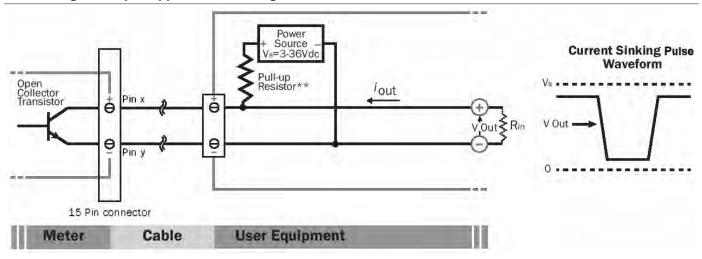
A1S/A2S = AC POWER / PULSE SCALED, 4-20mA, AND MODBUS® A1G/A2G = AC POWER / PULSE SCALED, 4-20mA AND DIGITAL



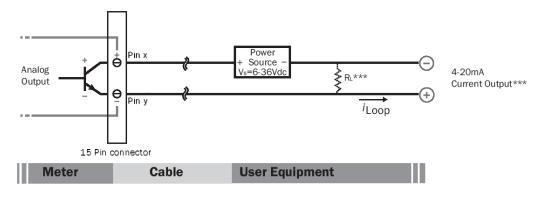
Pulse or Digital Output Application - Sourcing Mode (Recommended for Rin < 30kΩ)



Pulse or Digital Output Application - Sinking Mode (Recommended for Rin > $30k\Omega$)



Analog (4-20mA Current Loop) Output Application



^{**} Minimum resistor value is (100 x Vs) ohms. Higher resistances maybe used depending on frequency and cable length. Longer cables and high frequencies require lower resistance.

^{***} Resistor RL converts 4-20mA current to voltage for voltage input only devices.

Cable Shield. In general, the cable shield and its bare drain wire should be left unconnected at the user equipment end of the cable to minimize "ground loop" problems.

Pulse Output Configuration. A pulse output is standard on all models. Since this is an isolated output, the external equipment must include a DC power source to regenerate the pulse from the open-collector output (transistor equivalent of a contact closure). A pull-up or pull-down resistor may be needed if not included in the user equipment as shown in the diagrams. Both the power source and resistor may be supplied internally in some types of control and monitoring devices. If not, as for most PLC discrete input modules, they must be added externally at the module input terminals. The pulse output rate in volume units/pulse can be set by the user via the SETP tab on the meter's setup menus.

Because the pulse output of an iMAG 4700 meter is set by the user, care must be taken to assure the output pulses do not exceed the maximum frequency of the meter while also ensuring a reasonable resolution. The iMAG 4700p has a maximum pulse output of 200 Hz

K-factor: Remember that SETP is expressed in units totaled per output pulse (G/P if using gallons) while K-factors are expressed in pulses per gallon (P/G.) To determine K-factor from SETP, divide 1 by SETP (if SETP is expressed in gallons.) Conversely, 1 divided by the K-factor equals SETP

Because all pulse outputs (SETP) are configured in (rate) units totaled per pulse, all sizes of meters can be configured with the same SETP values

For example, if your rate is chosen as gallons per minute (GPM) the table below applies. If your rate is different, simply use your rate label in place of (GPM.) The numerical values will remain the same.

Pulse Units. The units of measure of SETP are independently selectable and are not tied to rate or total. Upon change of the SETP unit, the pulse output may take up to 10 seconds, or the duration of one pulse (whichever is longer) to take effect.

If Pulse Output is Inconsistent. The PDAMP filter may need to be increased.

Pulse Width Timing. The unit and value of SETP must be chosen to keep the duration between meter pulse outputs to less than 500 seconds.

SETP	Flow Rate at 1 Hz (GPM)	Flow Rate at 200 Hz (GPM) Powered Meters	Flow Rate at 150 Hz (GPM) Battery Powered Meters
0.1	6	1200	900
0.2	12	2400	1800
0.3	18	3600	2700
0.4	24	4800	3600
0.5	30	6000	4500
0.6	36	7200	5400
0.7	42	8400	6300
0.8	48	9600	7200
0.9	54	10800	8100
1.0	60	12000	9000

Lower frequency output pulses (1 pulse for some particular number of gallons) can also be set.

Any output frequency can be determined by:

Rate (units/minute) ÷ SETP (units/pulse) = pulse/minute Hz = pulse/minute ÷ 60 seconds / minutes Analog Output (4-20mA) Configuration. Since the meter's analog output is isolated and passive, loop power must be supplied externally as shown on previous page. (In addition, an external resistor R_L will be needed to convert the loop current to voltage for voltage-only input devices.) The meter's loop transmitter minimum voltage drop is 6Vdc which, with wiring resistance and loop power supply voltage, will determine the maximum resistance for R_L. The flow rates corresponding to 4 and 20mA can be set by the user via the SET 4 and SET20 tabs on the meter's setup menus.

Note: As configured by the factory, any alarm state will force 22.8mA on the loop. This can be changed to 3.2mA - see Technical Bulletin, 'iMAG4700/AG3000: Changing the 4-20mA Alarm'.

Modbus® Serial Communication Configuration (factory configured). These connections provide a half-duplex, isolated, RS485 serial communications port using the Modbus messaging protocol. The port is reconfigurable by internal jumper settings to full-duplex RS232 or 3.3V CMOS (See Seametrics Modbus Interface Description manual for instructions). The TXD connection is the transmitted data output from the meter and RXD is the received data input to the meter. See Seametric's Modbus Interface Description, LT-103393 (available at www.seametrics.com) for supported Modbus message protocol and electrical interface specifications.

Digital Output (High Frequency) Configuration. These outputs are electrically similar to the Pulse Output described above except they are capable of output frequencies up to 10kHz. The frequency output scaling can be set by the user via the SETF tab on the meter's setup menus. Selections are: 500Hz and 1, 2, 5 and 10 KHz at maximum flow rate.

DOUT1 Pulses in forward direction

DOUT2 Pulses in reverse direction

K-Factors for High Speed Digital Output (High Frequency)

	SETF (Hz)							
Size	500	1K	2K	5K	10K			
3"	41.55	83.10	166.2	415.51	831.02			
4"	23.35	46.69	93.39	233.5	466.9			
6"	10.38	20.75	41.51	103.8	207.5			
8"	5.837	11.67	23.35	58.37	116.7			
10"	3.736	7.471	14.94	37.36	74.71			
12"	2.594	5.188	10.38	25.94	51.88			

Changing Flow Meter Settings

Home Screen and General Navigation

The HOME Screen displays flow volume, direction of the flow total and flow RATE along with status conditions such as Empty Pipe. Two buttons below the LCD display are used to access menu screens for viewing and changing meter setup parameters.



These two buttons are light sensors which can detect when a finger is covering them and activate upon release. Only three button touch actions are needed to control navigation through the menus, settings changes and back to the home screen.

HORIZONTAL SCROLLING:

Tap right button to scroll horizontally through menu tabs or move horizontally within a tab dialog when applicable.



SELECT:

Tap left button to change a highlighted item within a tab dialog.



ENTER/EXIT:

Hold left button while tapping right button once to enter or exit a tab dialog or to navigate between the HOME and other menu screens.



Changing Total Direction/Resetting Batch Totalizers

On the Main screen, hold \triangleright and tap \blacktriangle 5 times to scroll through the total direction options. Release \triangleright to select a total direction.



Once BATCH FORWARD or BATCH REVERSE is selcted, tap four times to reset batch totalizer.

Entering Menu System

To enter the Menu System perform the hold and tap sequence. The Passcode entry screen will display. The default passcode is 000000. If a different passcode has previously been set, use the and to enter that passcode. In either case, hold and tap again to move into the menu system. (If you enter the wrong passcode, hold and tap again to return to the previous screen. See page 21 for information on how to change a passcode.)



ENTER PASSCODE

00000

PRESS A AND TO CHANGE

Making Selections

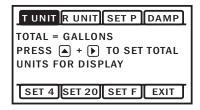
Once in the Menu System, move from tab to tab by tapping the right button. (See the next page for details on the various available tabs.)



Select the parameter. In the screen for the highlighted tab you will see the current parameter value for that tab. Tapping the right button, move to the tab for the parameter you want to change.



In this example, the first line indicates that the current unit for the TOTAL is GALLONS. The next two lines tell you what to do next.



If you would like to change the TOTAL units, just perform the hold and tap sequence to bring up a screen to change the setting.





Select a new setting. Select the new setting by scrolling through a list of selections as in the screen illustration below by tapping the left button to find a different TOTAL unit.



Accept changes. To accept any changes you have made, perform the hold and tap sequence.



When finished making changes. When you are finished making changes, move to the EXIT tab using the right button.



To return to the HOME screen, perform the hold and tap sequence.

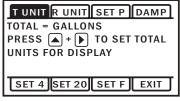


Standard Menu Options

Note: Available options will depend on specific meter configuration. Not all options are available on all meters. **Options not ordered with your meter will not appear on the meter menu.**

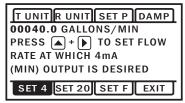
T UNIT

View or change TOTAL volume units



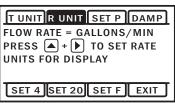
SET 4

View or change flow rate corresponding to 4mA.



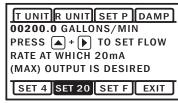
R UNIT

View or change flow RATE units



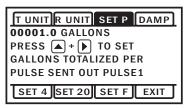
SET 20

View or change flow rate corresponding to 20mA.



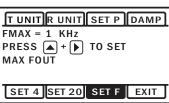
SET P

View or change pulse output scaling



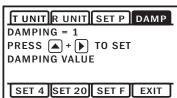
SET F

View or change high frequency output scaling.



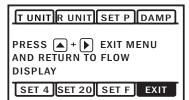
DAMP

View or change # of samples for rolling average.



EXIT

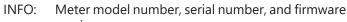
Return to HOME SCREEN or enter SUBMENU



Special SUBMENU for Further Options

The EXIT tab in the MAIN MENU has a second function. If, instead of using the hold and tap sequence to return to the HOME screen, you tap
in five times, you will be redirected to a SUBMENU screen from which you can access several more options.

Navigation in this SUBMENU is the same as for the MAIN MENU. Whenever you wish, go to the EXIT tab in the SUBMENU and perform the hold and tap sequence to return to the MAIN MENU.

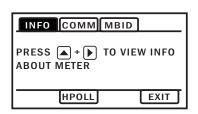


version.

COMM: Modbus® baud rate and parity.

MBID: Modbus® address

EXIT: Return to MAIN MENU.



Sub-Menu

To Change a Passcode and Decimal Places

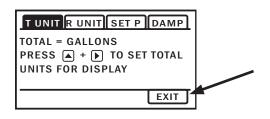
The iMAG has a passcode system for restricting access to the menus. The iMAG comes from the factory with the passcode set to 000000. When a user attempts to enter the menu system (see details on page 19), the passcode entry screen will be displayed.



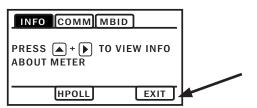
The default passcode is 000000. If a different passcode has previously been set, then the user must enter that passcode at this time. After entering the passcode, or leaving it at 000000 if using the default passcode, the user does the tap and hold sequence to move into the menu system.

To change the passcode, you must use the THIRD MENU screen. Access the THIRD MENU screen as follows:

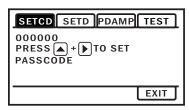
Enter the main menu system, as described above.



 On the main menu, tab over to the EXIT tab and tap the up arrow five times. A SUBMENU screen will display.



 On the SUBMENU screen tab over to the EXIT tab and tap the up arrow five times. The THIRD MENU screen will display.



- To set the passcode, hold and tap and then use the
 and
 to enter the new code.
- Hold and tap again to return to the THIRD MENU screen.
- Tab to EXIT, and then hold and tap to return to the SUBMENU.

To change the number of decimal places in the total

- To set the decimal point, hold and tap on SETD and then use the to move the decimal point.
- Hold and tap again to return to the THIRD MENU screen.
- Tab to EXIT, and then hold and tap to return to the SUBMENU.

PLMIN

PLMIN shows the minimum degree of stability required to activate the DAMP filter. 10 would indicate that meter readings that jump more than +/- 90% would not be filtered. Zero indicates that the filters will always be applied.

TEST

TEST allows the user to initiate a fully functional, artificial flow rate for the purpose of testing other connected equipment. When TEST is applied, all features of the meter will function at the stated flow rate (in gallons per second).

For TEST to function, the meter must be filled (not EMPTY PIPE).

To enter a value into the TEST feature, navigate to the TEST tab and enter a flow rate value in the VAL screen (in gallons per second only,) then to the VAL box and to the ON screen. This will initiate the TEST feature. The next would bring you to the OFF screen, but you can 'hold and tap' the arrows to return you to the sub menu while the feature operates.

After use, the TEST feature must be turned OFF. If the TEST feature is not turned OFF, the stated static flow rate (in gallons per second) will be shown any time the meter is full or in a flowing condition. Flow values recorded by the meter while the TEST feature is operating are permanently recorded in the displayed TOTAL. It may be useful to note that these values are only written to permanent memory every 15 minutes and cycling all power within this 15 minute time frame will return the meter to its previous total.

Power Indicators

A power indicator is displayed in the lower left of the main display window.

Any meter powered from an external power source will display a power plug icon when running on external power. If the connection to external power is lost, the meter will switch to the backup battery and the power icon will switch to a battery symbol.

OK on the battery indicator means battery voltage is above 6.4 volts.

LO on the battery indicator means the battery is low and should be replaced soon.



Being powered by external DC or internal AC



Being powered by battery - voltage is sufficient



Being powered by battery - voltage is low



If display reads, 'BATT END' replace battery immediately.

Troubleshooting

Problem	Probable Causes	Things to try		
Blank Display	Faulty wiring from power source to meter	Check for incorrect wiring. Measure voltage with DMM where red and black wires connect to terminal block TB1 on back side of display. Verify correct polarity and confirm that voltage is steady and between 9Vdc and 32Vdc		
	Backup battery has not been plugged in	Plug in the battery		
	Dead backup battery	Replace battery		
Flow rate reading fluctuates excessively when flow is unchanging	Excessively turbulent or unsteady flow due to partially closed valves or other flow obstructions	Eliminate or minimize causes of flow disturbances or increase meter damping		
	Pipe not full	Provide back pressure or other means to ensure pipe is filled		
	Pulsing flow due to combining multiple upstream flow sources	Move connection point further upstream		
	Insufficient mixing of upstream chemicals	Move chemical injection downstream from meter		
	Low fluid conductivity < 20 µS/cm	Replace with different type of meter		
	Noisy electrical environment	Improve grounding at meter and nearby potentially noisy electrical equipment. Increase distance between meter and electrical noise sources.		
	Defective or noisy AC switching power supply	Replace power supply		
Flow Rate appears correct but pulse/ frequency output is low,	Wiring incorrect	Compare wiring with appropriate wiring recommendations		
erratic or absent	External device input impedance too low	Use sourcing rather than sinking interface connection		
	Cable too long	Reduce interface pull-up resistance		
Flow Rate appears correct but pulse/frequency output is erratic and/or too high	Electrical noise sources interfering with pulse frequency signal	Isolate, remove or reduce noise sources. Move meter control cable away from noise sources. Increase pulse damp setting (PDAMP)		
	Wrong type of cable	Use only twisted pair cable and ensure both signal wires are on same twisted pair		
	Grounding problem	Improve or try different grounding method		

Error Messages

Under certain conditions an error message may be displayed.

Message	Description	Notes
INIT	Initialization is occurring during power up.	
EMPTY PIPE	Fluid is not detected between the sensing electrodes.	Loop output = 22.8mA
LO in battery icon	Battery is getting low, replace soon. Meter still functions.	Above 6.4V, OK appears in icon
BATT END	Battery is very low (approx. 6.1V). Totalizer stops updating.	Loop output = 4mA
LOW VOLT	Incoming external power is very low and backup battery is dead or not connected	Loop output = 4mA
COIL FAIL	Coil current too high or too low (short or open).	Loop output = 22.8mA
COMM FAIL	Communication between transmitter and sensor board fails.	Loop output = 22.8mA
OVER RANGE	Rate exceeds number of digits that can be displayed. Adjust units.	Loop output = 4mA

The limited warranty set forth below is given by Seametrics, with respect to Seametrics brand products purchased in the United States of America.

Seametrics warrants that products manufactured by Seametrics, when delivered to you in new condition in their original containers and properly installed, shall be free from defects in material and workmanship. Seametrics products are warranted against defects for a minimum period of two (2) years from date of installation, unless otherwise specified, with proof of install date. If no proof of install date can be provided, warranty period will be two (2) years from date of shipment from Seametrics, as defined on Seametrics' invoice. Seametrics' obligation under this warranty shall be limited to replacing or repairing the part or parts, or, at Seametrics' option, the products, which prove defective in material or workmanship. The following are the terms of Seametrics' limited warranty:

- a. Buyer must give Seametrics prompt notice of any defect or failure and satisfactory proof thereof.
- b. Any defective part or parts must be returned to Seametrics' factory or to an authorized service center for inspection.
- c. Buyer will prepay all freight charges to return any products to Seametrics' factory, or another repair facility. as designated by Seametrics
- d. Defective products, or parts thereof, which are returned to Seametrics and proved to be defective upon inspection, will be repaired to factory specifications.
- e. Seametrics will deliver repaired products or replacements for defective products to the buyer (ground freight prepaid) to the destination provided in the original order.
- f. Products returned to Seametrics for which Seametrics provides replacement under this warranty shall become the property of Seametrics.
- g. This limited warranty covers all defects encountered in normal use of Seametrics products, and does not apply to the following cases:
 - i. Loss of or damage to Seametrics product due to abuse, mishandling, or improper packaging by buyer
 - ii. Failure to follow operating, maintenance, or environmental instructions prescribed in Seametrics' instruction manual
 - iii. Products not used for their intended purpose
 - iv. Alterations to the product, purposeful or accidental
 - v. Electrical current fluctuations
 - vi. Corrosion due to aggressive materials not approved for your specific product
 - vii. Mishandling, or misapplication of Seametrics products
 - viii. Products or parts that are typically consumed during normal operation
 - ix. Use of parts or supplies (other than those sold by Seametrics) which cause damage to the products, or cause abnormally frequent service calls or service problems
- h. A new warranty period will be established for repaired products, or products replaced during the original warranty period.
- i. In the event that equipment is altered or repaired by the buyer without prior written approval by Seametrics, all warranties are void. Damage caused by equipment or accessories not manufactured by Seametrics may void the product's warranty.
- j. SOFTWARE: The Seller grants the user a non-exclusive license to use Seametrics' software, according to the following limitations and conditions:
 - i. The user may install the software on one or more desktop or laptop computers.
 - ii. All title and intellectual rights to the software are owned by Seametrics.
 - iii. No copies may be made or distributed except as described above.
 - iv. The user may not modify or reverse-engineer the software.

THE FOREGOING WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, WHETHER ORAL, WRITTEN, EXPRESSED, IMPLIED OR STATUTORY. NO IMPLIED WARRANTY, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, APPLIED TO THE PRODUCTS AFTER THE APPLICABLE PERIOD OF THE EXPRESS LIMITED WARRANTY STATED ABOVE, AND NO OTHER EXPRESS WARRANTY OR GUARANTY, EXCEPT AS MENTIONED ABOVE, GIVEN BY ANY PERSON OR ENTITY WITH RESPECT TO THE PRODUCTS, SHALL BIND SEAMETRICS. SEAMETRICS SHALL NOT BE LIABLE FOR LOSS OF REVENUES, OR PROFITS, OR INCONVENIENCES, EXPENSE FOR SUBSTITUTE EQUIPMENT OR SERVICE, STORAGE CHARGES, LOSS OF DATA, OR ANY OTHER SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGE CAUSED BY THE USE OR MISUSE OF, OR INABILITY TO USE THE PRODUCTS, REGARDLESS OF THE LEGAL THEORY ON WHICH THE CLAIM IS BASED, AND EVEN IF SEAMETRICS HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. IN NO EVENT SHALL RECOVERY OF ANY KIND AGAINST SEAMETRICS BE GREATER IN AMOUNT THAN THE PURCHASE PRICE OF THE PRODUCT SOLD BY SEAMETRICS AND CAUSING THE ALLEGED DAMAGE. WITHOUT LIMITING THE FOREGOING, YOU ASSUME ALL RISK OF LIABILITY FOR LOSS, DAMAGE, OR INJURY TO YOU AND YOUR PROPERTY AND TO OTHERS AND THEIR PROPERTY ARISING OUT OF USE OR MISUSE OF, OR INABILITY TO USE THE PRODUCTS NOT CAUSED DIRECTLY BY THE NEGLIGENCE OF SEAMETRICS.

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INFRARED HEATER

patioSchwank





Heating Models and Capacities

With smaller, sleeker profiles, **electricSchwank** heating systems offer a streamlined, yet effective heating solution for any indoor or outdoor space. They are available in a range of sizes, wattages and voltages that can provide appropriate warmth to any indoor or outdoor area, from a small room to an expansive open-air commercial space.







Multiple Colors







One Bulb, or Two



Features

- Models range from 500 to 6000 Watts
- Available in 120V, 208V, and 240V options for a wide range of applications.
- Flush Mount option to make heater blend in with any structure
- Single stage or 2 stage option for a high or low heat setting
- Stainless steel finish custom colors available in black, white, beige, and mineral bronze

Perfect for:

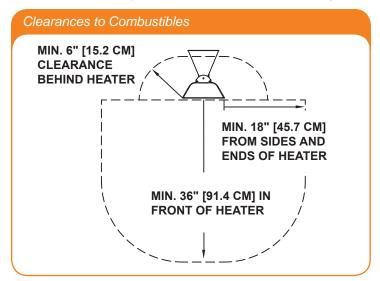


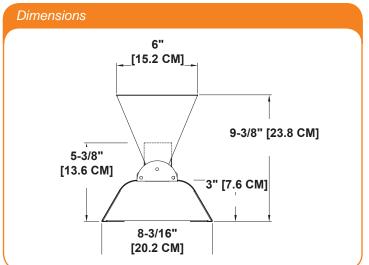




electricSchwank - Technical Specifications & Benefits

Information below is intended only as a reference and should not be used when installing equipment. Please ensure you locate the most recent instruction manual for accurate and up to date information.





Specification	Specifications										
MODEL	WATTS	LENGTH		VOLTS/AMPS			PHASE	SHIP WGT.			
ES-519	500	19.5"	120/4.2				Single	10			
ES-719	750	19.5"		120	Single	10					
ES-1033	1000	33"	120/8.3				Single	12			
ES-1533	1500	33"	120/12.5	208/7	240/6.3		Single	12			
ES-2039	2000	39"	208/10	240/8.3			Single	13			
ES-2539	2500	39"	208/12	240/10.4			Single	13			
ESD-3033	3000	33"	208/14	240/12.5			Single	13			
ES-3061	3000	61.25"	208/14	240/12.5			Single	20			
ESD-4039	4000	39"	208/19	240/16.7			Single	14			
ES-4061	4000	61.25"	208/19	240/16.7			Single	20			
ESD-5039	5000	39"	208/24	240/20.8			Single	14			
ESD-6061	6000	61.25"	208/28.8	240/25			Single	21			

Heater Controls

On/Off Control



- Designed for use with single bulb heaters
- Available in flush mount or surface mount options
- Available with no cover, weatherproof cover, or weatherproof box
- Range 120/277 VAC [20 amps max per switch]

Variable Control



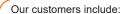
- Designed for use with single bulb heaters up to 3000 watts [maximum 15 amps]
- Variable control to regulate heat output
- Each heater must have its own input
- regulator Available in flush mount or surface mount options
- Available with no cover, weatherproof cover, or weatherproof box
- Available for 240 V and 120V heaters only

2-Stage Control



- Designed for use with dual bulb heaters
- 2-stage option for high or low heat setting Range 120/277 VAC [20
- amps max per switch] Available in flush mount or
- surface mount options
- Available with no cover, weatherproof cover, or weatherproof box





























VFD

SMVector Drive







SMVector Our promise

Commitment to Value

The finest product at the best price is serious business. It takes continuous life cycle management to achieve this goal. We are always investigating techniques to improve efficiency and take advantage of the latest microprocessor and power module technology. When we achieve efficiency gains or material cost reductions, we pass those savings on to our customers. This simple philosophy has permitted us to build and maintain a very loyal base of customers.

Commitment to Quality

From product design to manufacture, service and training, quality is at the foundation of Lenze Americas corporate philosophy. A quality product is built of superior materials by highly skilled personnel equipped with state-of-the art instruments. And a quality product is backed by expert training, knowledgeable sales representatives and experienced repair personnel. Continuous life cycle improvement fueled by our pledge to our Customers drives our technology forward. We feel so strongly about quality that each SMVector is backed with a two-year warranty.

Commitment to Innovation

We pride ourselves on delivering products to the market that are designed to meet specific customer needs. Our portfolio of innovative products is broad and covers very simple variable speed applications up through complex motion control. Each product, including the SMVector, is positioned so our customers pay only for the level of technology necessary for their application.

Commitment to Simplicity

One of the cornerstones of our design philosophy is to make our products simple to use. Technology only benefits the user if it can be easily understood and applied. The SMVector's intuitive display and EPM technology dramatically simplifies installation, commissioning and operation for our customers.

Commitment to Performance

The SMV ector is in a class by itself when it comes to performance. At the heart of the SMV are sophisticated vector algorithms that achieve new heights in torque production and speed control. This technology breakthrough allows our customers to cover a full range of applications from simple speed control through advanced torque and process control with the same product.

Our Promise

At Lenze Americas it is not good enough to deliver part of a promise. Our products deliver the entire package; Value, Quality, Innovation, Simplicity and Performance.

Lenze



SMVector Features and Benefits:

The SMVector continues our price leadership tradition in the highly competitive AC drive market. Its performance and flexibility make it an attractive solution for a broad range of applications including:

- ► Food processing machinery
- Packaging machinery
- ► Material handling/conveying systems
- ► HVAC systems

The SMVector makes good its promise of price leadership in delivering unparalleled performance and simplicity. The SMVector is the right choice when you need it all – performance, power, packaging and intuitive programming.





SMV NEMA 4X (IP65)

SMV NEMA 1 (IP31)

Two Year Warranty

Superior Performance

- ► Modes of Operation:
 - V/Hz (Constant and Variable)
 - Enhanced V/Hz (Constant and Variable)
 - Vector Speed Control
 - Vector Torque Control
- ► Dynamic Torque Response
- ► Sophisticated Auto-tuning (Motor Calibration)
- Impressive Low Speed Operation
- Sequencer with 16 Programmable Segments

Flexible Power Ranges

- ▶ International Voltages:
 - 120/240V, 1Ø (up to 1.5 Hp)
 - 200/240V, 1/3Ø (up to 3 Hp)
 - 200/240V, 3Ø (up to 20 Hp)
 - 400/480V, 3Ø (up to 60 Hp)
 - 480/600V, 3Ø (up to 60 Hp)

Industrial Grade Packaging

- ▶ NEMA Type 1 (IP31) Enclosure
- ► NEMA 4X (IP65) Indoor Only
- ► NEMA 4X (IP65) Indoor/Outdoor

Simplicity

- ► Intuitive User Interface
- ► Electronic Memory Module (EPM)
- Optional Disconnect Switch (NEMA 4X only)
- Optional Potentiometer Switch (NEMA 4X only)

EPM Just think of it as ... Ever Present Memory

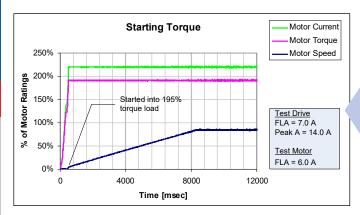


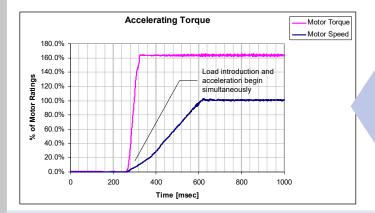


When you need to program or replace a drive, whether it is 1 or 100 drives, the Electronic Programming Module (EPM) gets it done simply, quickly and most important, accurately. There is no hassle of reconfiguring each parameter or reseting the drive to factory or user default settings.

When drive reset is necessary, reset to factory default or customer settings in seconds with the EPM. When the EPM equipped drive is used on a line containing multiple drives with the identical setup, it takes just minutes to program the entire line. And EPMs can be replaced with or without power connected. When a drive must be replaced, the parameter configuration is not lost, simply plug in the pre-programmed EPM. You are good to go with Ever Present Memory.

SMVector Performance





Exceptional Starting Torque

Overpower demanding applications

The SMVector is peerless in controlling the motor's ability to convert current into torque. In this example, the SMVector is started into a stiff 195% torque load. Not only does the motor start the load, but it also delivers a full 195% torque while accelerating to 50 Hz in 8 seconds.

Dynamic Speed Regulation

Recovery from 100% shock load in 0.15 seconds

Shock loads are no match for the SMVector. Here an instantaneous 100% load is dealt with in a mere 0.15 seconds. Remarkably, this level of speed regulation is achieved open loop without the benefit of a feedback device.

Quick Acceleration

0 to 100 in 0.33 seconds!

Motors controlled by the SMVector benefit from a sophisticated motor control algorithm that drives motor performance to maximum levels. In this application the the motor is able to drive a 165% torque load while accelerating from 0 to 100% speed in an impressive 0.33 seconds.

The SMV Thrives in Harsh Environments

Plastic Housing/Black Anodized Heatsink

- Light weight and corrosion resistant
- Available for indoor and indoor/outdoor use

Totally Enclosed Non-Ventilating Housing

Compact Enclosures

Optional Potentiometer



SMV NEMA 4X (IP65) With Disconnect and Potentiometer

Optional Disconnect Switch

· Available on certain models

High Pressure Washdown Version

Can be ordered without keypad and display

Optional Integrated EMC Filters

Meets CE regulations

World Class Control

Open Loop Flux Vector, Speed or Torque Control with/without Auto Tuning

V/Hz (Constant or Variable)

Enhanced V/Hz with Auto-tuning

Two Independent Decel Ramps

Linear, S-Type

500 Hz Output Frequency

High Carrier (PWM Sine-Coded) Frequency

4, 6, 8, 10 kHz

Digital Reference Available

Braking Functions

Optional Dynamic Braking

Flux Braking w/ Adjustable Flux Level & Decel Time

Speed Commands

Jog, 8 Preset Speeds

Floating Point Control

Voltage: Scalable 0 -10 VDC

Current: Scalable 4 - 20 mA

Process Control

PID Sleep Mode w/ Adjustable Recovery Threshold

Analog Output (Speed, Load, Torque, kW)

Network Speed (Baud Rate)

Terminal and Keypad Status

Elapsed Run or Power On Time (Hours)

Status Outputs

Programmable Open Collector Output

Scalable 0-10 VDC / 2-10 VDC Analog Output

4-20mA w/500 Ohm Total Impedance

Environment

Ambient Temperature

Derate 2.5% per °C Above 40°C

Comprehensive Diagnostic Tools

Real Time Monitoring

8 Register Fault History

Software Version

Drive Network ID

DC Bus Voltage (V)

Motor Voltage (V)

Output Current (%)

Motor Current (A)

Motor Torque (%)

Power (kW)

Energy Consumption (kWh)

Heatsink Temperature (°C)

0 - 10 VDC Input (User Defined)

4 - 20 mA Input (User Defined)

PID Feedback (User Defined)

Vigilant System Protection

Voltage Monitoring

Low and High DC Bus V Protection Low Line V Compensation

Current Monitoring

Motor Overload Protection

Current Limiting Safeguard

Ground Fault

Short Circuit Protection

Four ReStarts

Three Flying and One Auto

User Enabled

Loss of Follower Management

Protective Fault

Go to Preset Speed or Preset Setpoint

Initiate System Notification

Over Temperature Protection

International Voltages

+10/-15% Tolerance

120/240V, 1Ø

200/240V, 1 or 3Ø

200/240V, 3Ø

400/480V, 3Ø

480/600V, 3Ø

Global Standards

GOST UL

cUL

C-Tick

CE Low Voltage (EN61800-5-1)

CE EMC (EN61800-3) with optional EMC filter

Simple Six Button Programming

Start

Stop

Forward/Reverse

Scroll Up

Scroll Down

Enter/Mode

Informative LED Display

Vivid Illumination

Easily Read from a Distance

Five Status LEDs

- Run
- Automatic Speed mode
- Manual Speed Mode
- Forward Rotation
- Reverse Rotation

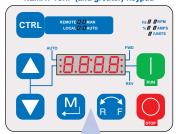
Status Display

- Motor Status
- Fault Management
- Operational Information



NEMA1 (Up to 10HP), NEMA4/4x Keypad

NEMA1 15HP (and greater) Keypad



Additional CTRL Button

Switch between control modes

- Local-Manual
- · Remote-Manual
- Remote-Auto

Additional LED Indicators Define the units being displayed

- Hz
- RPM
- Amps • /Units

Control Terminals

- Digital Inputs
- Dedicated Start/Stop
- Digital Outputs

• Form "A" Relay

- Analog Inputs
- 0 10 VDC
- 4 20 mA

- 0 10 VDC/2 10 VDC
- 10 VDC Potentiometer Ref • 12 VDC, 20 mA Digital Input Ref or 0VDC Common
- 12 VDC, 50 mA Supply

Additional Control Terminals

(NEMA1, 15HP and greater models)

- 1 Common
- **RS-485 Modbus Communications**
- TXA
 TXB

An extra IP21 finger guard ships with every drive.

For Sales and Support, Contact Walker EMD • Toll-free: (800) 876-4444 • Tel: (203) 426-7700 • Fax: (203) 426-7800 • www.walkeremd.com



SMVector | Specifications



Base Frequency Adjustable to Motor Specs

Acceleration/Deceleration Profiles

Two Independent Accel Ramps

Auxiliary Ramp(or Coast)-to-Stop

Fixed Accel Boost for Improved Starting

Universal Logic Assertion (Selectable)

Positive or Negative Logic Input

DC Injection Braking

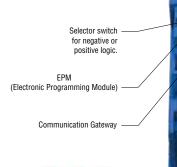
Keypad, Potentiometer

Sequencer, 16 Segments

PID Modes: Direct and Reverse Acting

Programmable Form "A" Relay Output

-10 to 55°C



Removable terminal cover and steel conduit plate (not shown). Easy access for control & power wiring.

- Local-Auto

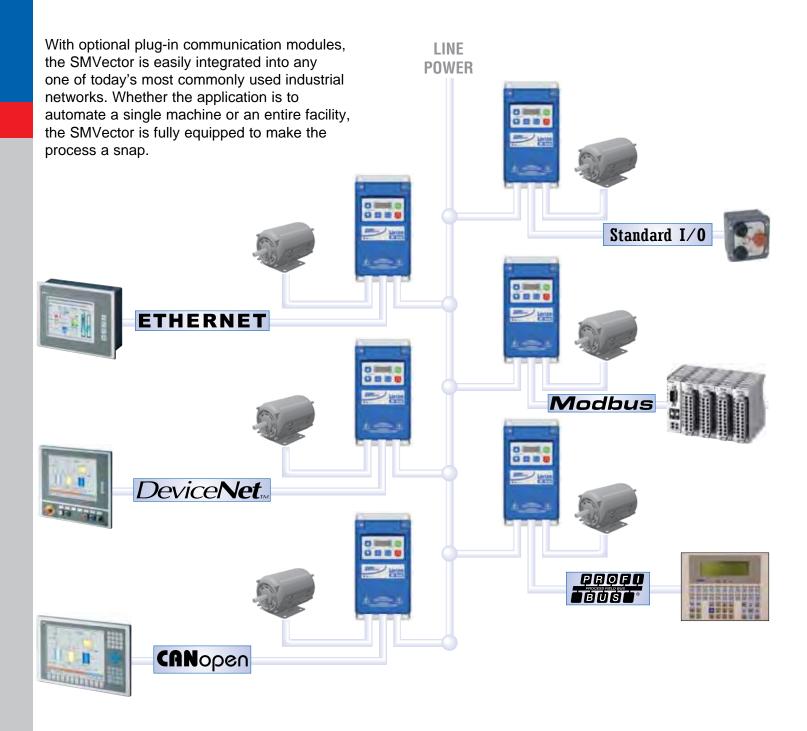
- %



- (3) Programmable
- Open Collector
- **Analog Outputs**
- Power Supplies

- 1 Programmable Digital Input

SMVector Connectivity



NOTE: Communication options are available in NEMA 1 (IP31) and NEMA 4X (IP65) models.



terminal cover and the drive is ready to connect to the network. Or if the SMVector is already installed it can be easily upgraded in the field.

Communication Module



Setting up a drive in a network has never been so simple. Order the SMVector and your choice of communication module. Simply snap the communication module into the

SMVector

Ratings & Dimensions

120/240V* - 1Ø Input (3Ø Output)

Po	Power NEMA1		NEMA4X - Indoor [C]/O	NEMA4X w/Disconnect -Indoor			
Нр	kW	Model	Size	Model	Size	Model	Size
0.33	0.25	ESV251N01SXB	G1				
0.5	0.37	ESV371N01SXB	G1	ESV371N01SX[C] or [E]	R1	ESV371N01SMC	AA1
1	0.75	ESV751N01SXB	G1	ESV751N01SX[C] or [E]	R1	ESV751N01SMC	AA1
1.5	1.1	ESV112N01SXB	G2	ESV112N01SX[C] or [E]	R2	ESV112N01SMC	AA2

^{*120/240}V models provide 0-230V output even with 120V input applied.

200/240V - 1 or 3Ø Input (3Ø Output)

Po	wer	NEMA1		NEMA4X - Indoor [C]/Outdoor[E]*		NEMA4X w/Disconnect - Indoor**	
Нр	kW	Model	Size	Model	Size	Model	Size
0.33	0.25	ESV251N02SXB***	G1				
0.5	0.37	ESV371N02YXB	G1	ESV371N02YX[C] or [E]	R1	ESV371N02YMC	AA1
1	0.75	ESV751N02YXB	G1	ESV751N02YX[C] or [E]	R1	ESV751N02YMC	AA1
1.5	1.1	ESV112N02YXB	G2	ESV112N02YX[C] or [E]	R2	ESV112N02YMC	AA2
2	1.5	ESV152N02YXB	G2	ESV152N02YX[C] or [E]	R2	ESV152N02YMC	AA2
3	2.2	ESV222N02YXB	G2	ESV222N02YX[C] or [E]	S1	ESV222N02YMC	AD1

200/240V - 3Ø Input (3Ø Output)

Po	wer	NEMA1		NEMA4X - Indoor [C or D]/0	NEMA4X w/Disconnect - Indoor				
Нр	kW	Model	Size	Model	Size	Model	Size		
1.5	1.1	ESV112N02TXB	G2	N/A					
2	1.5	ESV152N02TXB	G2		N/A				
3	2.2	ESV222N02TXB	G2	N/A					
5	4	ESV402N02TXB	G3	ESV402N02TX[C] or [E]	V1	ESV402N02TMC	AC1		
7.5	5.5	ESV552N02TXB	H1	ESV552N02TX[D] or [F]	T1	ESV552N02TMD	AB1		
10	7.5	ESV752N02TXB	H1	ESV752N02TX[D] or [F]	T1	ESV752N02TMD	AB1		
15	11	ESV113N02TXB	J1	ESV113N02TX[D] or [F]	W1	ESV113N02TMD	AF1		
20	15	ESV153N02TXB	J1	ESV153N02TX[D] or [F]	W1	ESV153N02TMD	AF1		

400/480V - 3Ø Input (3Ø Output)

Po	Power NEMA1		NEMA4X - Indoor [C or D]/Outdoor[E or F]*		NEMA4X w/Disconnect - Indoor**			
Нр	kW	Model	Size	Model	Size	Model	Size	
0.5	0.37	ESV371N04TXB	G1	ESV371N04TX[C] or [E]	R1	ESV371N04TMC	AA1	
1	0.75	ESV751N04TXB	G1	ESV751N04TX[C] or [E]	R1	ESV751N04TMC	AA1	
1.5	1.1	ESV112N04TXB	G2	ESV112N04TX[C] or [E]	R2	ESV112N04TMC	AA2	
2	1.5	ESV152N04TXB	G2	ESV152N04TX[C] or [E]	R2	ESV152N04TMC	AA2	
3	2.2	ESV222N04TXB	G2	ESV222N04TX[C] or [E]	R2	ESV222N04TMC	AA2	
5	4	ESV402N04TXB	G3	ESV402N04TX[C] or [E]	V1	ESV402N04TMC	AC1	
7.5	5.5	ESV552N04TXB	H1	ESV552N04TX[C] or [E]	V1	ESV552N04TMC	AC1	
10	7.5	ESV752N04TXB	H1	ESV752N04TX[D] or [F]	T1	ESV752N04TMD	AB1	
15	11	ESV113N04TXB	J1	ESV113N04TX[D] or [F]	W1	ESV113N04TMD	AE1	
20	15	ESV153N04TXB	J1	ESV153N04TX[D] or [F]	W1	ESV153N04TMD	AE1	
25	18.5	ESV183N04TXB	J1	ESV183N04TX[D] or [F]	W1	ESV183N04TMD	AF1	
30	22	ESV223N04TXB	J1	ESV223N04TX[D] or [F]	X1	ESV223N04TMD	AF1	
40	30	ESV303N04TXB	K1	N/A				
50	37.5	ESV373N04TXB	K2	N/A				
60	45	ESV453N04TXB	К3	N/A				

[&]quot;Filter versions are also available in 1-phase: Replace the "X" in the Model Part Number with an "F".

**Filter versions are also available in 1-phase: Replace the "M" in the Model Part Number with an "L".

600V - 3Ø Input (3Ø Output)

Po	wer	NEMA1		NEMA4X - Indoor [C or D]/0	utdoor[E or F]	NEMA4X w/Disconnect - Indoor			
Нр	kW	Model	Size	Model	Size	Model	Size		
1	0.75	ESV751N06TXB	G1	ESV751N06TX[C] or [E]	R1	ESV751N06TMC	AA1		
2	1.5	ESV152N06TXB	G2	ESV152N06TX[C] or [E]	R2	ESV152N06TMC	AA2		
3	2.2	ESV222N06TXB	G2	ESV222N06TX[C] or [E]	R2	ESV222N06TMC	AA2		
5	4	ESV402N06TXB	G3	ESV402N06TX[C] or [E]	V1	ESV402N06TMC	AC1		
7.5	5.5	ESV552N06TXB	H1	ESV552N06TX[C] or [E]	V1	ESV552N06TMC	AC1		
10	7.5	ESV752N06TXB	H1	ESV752N06TX[D] or [F]	T1	ESV752N06TMD	AB1		
15	11	ESV113N06TXB	J1	ESV113N06TX[D] or [F]	W1	ESV113N06TMD	AE1		
20	15	ESV153N06TXB	J1	ESV153N06TX[D] or [F]	W1	ESV153N06TMD	AE1		
25	18.5	ESV183N06TXB	J1	ESV183N06TX[D] or [F]	W1	ESV183N06TMD	AF1		
30	22	ESV223N06TXB	J1	ESV223N06TX[D] or [F]	X1	ESV223N06TMD	AF1		
40	30	ESV303N06TXB	K1	N/A					
50	37.5	ESV373N06TXB	K2	N/A					
60	45	ESV453N06TXB	K3	N/A					







Bottom Entry with NEMA 1 Steel Conduit Plate



Bottom Entry with IP31 Finger Guard

		Di	mensio	าร		
	ŀ	1	٧	٧)
	in.	mm	in.	mm	in.	mm
G1	7.50	190	3.90	99	4.40	111
G2	7.60	191	3.90	99	5.50	138
G3	7.60	191	3.90	99	5.80	147
H1	9.90	250	5.20	130	6.30	160
J1	12.50	318	7.00	176	8.10	205
K1	14.19	360	8.72	221	10.07	256
K2	17.19	436	8.72	221	10.07	256
К3	20.19	513	8.72	221	10.07	256
R1	8.00	203	6.30	160	4.50	114
R2	8.00	203	6.30	160	6.30	160
S1	8.00	203	7.10	181	6.80	172
T1	10.00	254	8.10	204	8.00	203
V1	10.00	254	9.00	228	8.00	203
W1	14.40	366	9.40	240	9.50	241
X1	18.50	470	9.40	240	9.50	241
AA1	11.00	279	6.30	160	5.40	136
AA2	11.00	279	6.30	160	7.20	182
AB1	13.00	330	8.10	204	8.90	225
AC1	13.00	330	9.00	228	9.00	226
AD1	11.00	279	7.10	181	7.70	194
AE1	14.40	366	9.40	240	10.20	259
AF1	18.50	470	9.40	240	10.20	259

^{*}Filter versions are also available in 1-phase: Replace the "YX" in the Model Part Number with an "SF".

**Filter versions are also available in 1-phase: Replace the "YM" in the Model Part Number with an "SL".

***Model ESV251N02SXB is single-phase input only.

The best machines and production facilities around the world use Lenze.



Positioning our Customers for Success. We take our Customer's requirements seriously. A new application is an opportunity to test, prove and expand our drive's capabilities while solving our Customer's motion control needs.



Customer Service has always been and will always be our number one commitment.
Our success depends on it.



Driving design technology forward means we never stop thinking about process improvements. Did we deliver a quality product to market that meets the Customer's needs? That is the key.



Innovation takes art and skill to combine what's new and what's proven to produce a product with exceptional form, fit and function.



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World Class Control

Modes of Operation

Open Loop Flux Vector, Speed or Torque Control V/Hz (Constant or Variable) Base Frequency Adjustable to Motor Specs

Enhanced V/Hz with Auto-tuning **Acceleration/Deceleration Profiles**

Two Independent Accel Ramps Two Independent Decel Ramps Linear, S-Type Auxiliary Ramp(or Coast)-to-Stop

Fixed Accel Boost for Improved Starting 500 Hz Output Frequency

High Carrier PWM Sine-Coded Frequency

4, 6, 8, 10 or 12 kHz

Universal Logic Assertion (Selectable)

Positive or Negative Logic Input Digital Reference Available

Braking Functions

DC Injection Braking Optional Dynamic Braking

Speed Commands

Keypad, Potentiometer Jog, 8 Preset Speeds Floating Point Control Voltage: Scalable 0 -10 VDC Current: Scalable 4 - 20 mA

Process Control

PID Modes: Direct and Reverse Acting PID Sleep Mode Analog Output (Speed, Load, Torque, kW) Network Speed (Baud Rate) Terminal and Keypad Status Elapsed Run or Power On Time (Hours)

Status Outputs

Programmable Form "A" Relay Output Programmable Open Collector Output Scalable 0-10 VDC / 2-10 VDC Analog Output

Run Screen Display

Multiplier: 4-20mA w/500 Ohm Total Impedance

Environment

Ambient Temperature

-10 to 55°C @ 6 kHz Derate 2.5% per °C Above 40°C

Comprehensive Diagnostic Tools

Real Time Monitoring

8 Register Fault History Software Version Drive Network ID DC Bus Voltage (V) Motor Voltage (V) Output Current (%) Motor Current (A) Motor Torque (%) Power (kW)

Energy Consumption (kWh) Heatsink Temperature (°C)

0 - 10 VDC Input (User Defined)

4 – 20 mA Input (User Defined)

PID Feedback (User Defined)

Vigilant System Protection

Voltage Monitoring

Low and High DC Bus V Protection Low Line V Compensation Parameters can be reset for 50 or 60 Hz Motors

Current Monitoring

Motor Overload Protection **Current Limiting Safeguard Ground Fault Short Circuit Protection**

Three ReStarts

Two Flying and One Auto Password Protected

Loss of Follower Management

Protective Fault Go to Preset Speed or Preset Setpoint Initiate System Notification

Over Temperature Protection

International Voltages

+10/-15% Tolerance 120/240V. 1Ø 200/240V, 1 or 3Ø 200/240V, 3Ø 400/480V, 3Ø 480/600V, 3Ø

Global Standards

H GOST cUL C-Tick CE Low Voltage (EN61800-5-1)

CE EMC (EN61800-3) with optional EMC filter

Keypad & Display

Simple Six Button Programming

Start

Scroll Up

Stop

 Scroll Down • Forward/Reverse • Enter/Mode

Informative LED Display

Vivid Illumination

Easily Read from a Distance

Five Status LEDs

- Run
- Automatic Speed mode
- Manual Speed Mode
- Forward Rotation
- · Reverse Rotation

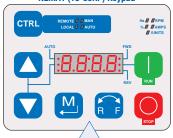
Status Display

- · Motor Status
- Fault Management
- Operational Information



NEMA1 (Up to 10HP) Keypad

NEMA1 (15-30HP) Keypad



Additional CTRL Button

Switch between control modes

- Local-Manual
- Local Auto
- Remote-Manual Remote Auto

Additional LED Indicators Define the units being displayed

• RPM • % • Hz

- Amps
 /Units

Control Terminals

Digital Inputs Dedicated Start/Stop

• (3) Programmable

Digital Outputs
• Form "A" Relay Open Collector Analog Outputs

Analog Inputs • 0 - 10 VDC

• 0 - 10 VDC

• 4 - 20 mA • 2 - 10 VDC

Power Supplies • 10 VDC Potentiometer Ref

• 12 VDC, 20 mA DI Ref or 0VDC Com

• 12 VDC, 50 mA Supply

Additional Control Terminals (15 HP & up)

1 Programmable Digital Input

1 Common **RS-485 Modbus Communications**



SMVector NEMA4X

Washdown Duty Inverter

Ratings

120/240V* - 1Ø Input (3Ø Output)

Po	Power Output Current		NEMA4X Indoor [C] / Outdoor	NEMA4X w/Disconnect Indoor						
Нр	kW	I _N [A]	Model	Size	Model	Size				
0.5	0.37	2.4	ESV371N01SX[C] or [E]	R1	ESV371N01SMC	AA1				
1	0.75	4.2	ESV751N01SX[C] or [E]	R1	ESV751N01SMC	AA1				
1.5	1.1	6.0	ESV112N01SX[C] or [E]	R2	ESV112N01SMC	AA2				

*Output voltage will be twice line voltage when connected to a 120V source. Output voltage will not exceed line voltage when connected to a 240V source.

200/240V - 1 or 3Ø Input (3Ø Output)

Po	Power Output Current		NEMA4X Indoor [C] / Outdoor	NEMA4X w/Disconnect Indoor**		
Нр	kW	I _N [A]	Model	Size	Model	Size
0.5	0.37	2.4	ESV371N02YX[C] or [E]	R1	ESV371N02YMC	AA1
1	0.75	4.2	ESV751N02YX[C] or [E]	R1	ESV751N02YMC	AA1
1.5	1.1	6.0	ESV112N02YX[C] or [E]	R2	ESV112N02YMC	AA2
2	1.5	7.0	ESV152N02YX[C] or [E]	R2	ESV152N02YMC	AA2
3	2.2	9.6	ESV222N02YX[C] or [E]	S1	ESV222N02YMC	AD1

^{*}Filter versions are also available in 1-phase: Replace the "YX" in the Model Part Number with an "SF".

**Filter versions are also available in 1-phase: Replace the "YM" in the Model Part Number with an "SF".

***Model ESV251N02SXB is single-phase input only.

200/240V - 3Ø Input (3Ø Output)

		Output Current	NEMA4X Indoor [C or D] / Outdoor	NEMA4X w/Disconnect Indoor		
Нр	kW	I _N [A]	Model	Size	Model	Size
5	4	16.5	ESV402N02TX[C] or [E]	V1	ESV402N02TMC	AC1
7.5	5.5	23	ESV552N02TX[D] or [F]	T1	ESV552N02TMD	AB1
10	7.5	29	ESV752N02TX[D] or [F]	T1	ESV752N02TMD	AB1
15	11	42	ESV113N02TX[D] or [F]	W1	ESV113N02TMD	AF1
20	15	54	ESV153N02TX[D] or [F]	W1	ESV153N02TMD	AF1

400/480V - 3Ø Input (3Ø Output)

	ico, ico i co input (co culput)										
Power		Output Current	NEMA4X Indoor [C or D] / Outdoor	NEMA4X w/Disconnect Indoor**							
Нр	kW	I _N [A]	Model	Size	Model	Size					
0.5	0.37	1.3/1.1	ESV371N04TX[C] or [E]	R1	ESV371N04TMC	AA1					
1	0.75	2.4/2.1	ESV751N04TX[C] or [E]	R1	ESV751N04TMC	AA1					
1.5	1.1	3.5/3.0	ESV112N04TX[C] or [E]	R2	ESV112N04TMC	AA2					
2	1.5	4.0/3.5	ESV152N04TX[C] or [E]	R2	ESV152N04TMC	AA2					
3	2.2	5.5/4.8	ESV222N04TX[C] or [E]	R2	ESV222N04TMC	AA2					
4	3.0	7.6/6.3	ESV302N04TX[C] or [E]	R2	ESV302N04TMC	AA2					
5	4	9.4/8.2	ESV402N04TX[C] or [E]	V1	ESV402N04TMC	AC1					
7.5	5.5	12.6/11	ESV552N04TX[C] or [E]	V1	ESV552N04TMC	AC1					
10	7.5	16.1/14	ESV752N04TX[D] or [F]	T1	ESV752N04TMD	AB1					
15	11	24/21	ESV113N04TX[D] or [F]	W1	ESV113N04TMD	AE1					
20	15	31/27	ESV153N04TX[D] or [F]	W1	ESV153N04TMD	AE1					
25	18.5	39/34	ESV183N04TX[D] or [F]	W1	ESV183N04TMD	AF1					
30	22	46/40	ESV223N04TX[D] or [F]	X1	ESV223N04TMD	AF1					

^{*}Filter versions are also available in 1-phase: Replace the "X" in the Model Part Number with an "F".

**Filter versions are also available in 1-phase: Replace the "M" in the Model Part Number with an "L".

600V - 3Ø Input (3Ø Output)

	,										
Po	Power Out		NEMA4X Indoor [C or D] / Outdoor	NEMA4X w/Disconnect Indoor							
Нр	kW	I _N [A]	Model	Size	Model	Size					
1	0.75	1.7	ESV751N06TX[C] or [E]	R1	ESV751N06TMC	AA1					
2	1.5	2.7	ESV152N06TX[C] or [E]	R2	ESV152N06TMC	AA2					
3	2.2	3.9	ESV222N06TX[C] or [E]	R2	ESV222N06TMC	AA2					
5	4	6.1	ESV402N06TX[C] or [E]	V1	ESV402N06TMC	AC1					
7.5	5.5	9	ESV552N06TX[C] or [E]	V1	ESV552N06TMC	AC1					
10	7.5	11	ESV752N06TX[D] or [F]	T1	ESV752N06TMD	AB1					
15	11	17	ESV113N06TX[D] or [F]	W1	ESV113N06TMD	AE1					
20	15	22	ESV153N06TX[D] or [F]	W1	ESV153N06TMD	AE1					
25	18.5	27	ESV183N06TX[D] or [F]	W1	ESV183N06TMD	AF1					
30	22	32	ESV223N06TX[D] or [F]	X1	ESV223N06TMD	AF1					

Dimensions

Dimensions							
	H	1	V	V	D		
	in.	mm	in.	mm	in.	mm	
R1	8.00	203	6.30	160	4.50	114	
R2	8.00	203	6.30	160	6.30	160	
S1	8.00	203	7.10	181	6.80	172	
T1	10.00	254	8.10	204	8.00	203	
V1	10.00	254	9.00	228	8.00	203	
W1	14.40	366	9.40	240	9.50	241	
X1	18.50	470	9.40	240	9.50	241	
AA1 (4)	11.00	279	6.30	160	5.40	136	
AA2 (4)	11.00	279	6.30	160	7.20	182	
AB1 (4)	13.00	330	8.10	204	8.90	225	
AC1 (4)	13.00	330	9.00	228	9.00	226	
AD1 (4)	11.00	279	7.10	181	7.70	194	
AE1 (4)	14.40	366	9.40	240	10.30	261	
AF1 (4)	18.50	470	9.40	240	11.20	285	

(4) The "D" (depth) dimension includes the disconnect switch.





Options

Communic	eation Modules (Only one Communication module can be installed at a time.)
Item Number	Item Description
ESVZAC0	CANopen Communications Interface Module
ESVZAR0	RS-485/Modbus Communications Interface Module
ESVZAP0	PROFIBUS DP Communications Interface Module
ESVZAD0	DeviceNet Communications Interface Module
ESVZAE0	EtherNet/IP Communications Interface Module
Keypad	
ESVZXK1	Remote Keypad w/ drive interface module & cable up to 10HP (7.5kW)
ESVZXH0	Remote Keypad w/ cable 15HP (11kW) and up
Additional	I/O (cannot be used with Communication modules or Remote keypad ESVZXK1)
ESVZAL0	Additional Form C Relay Output Module
ESVZAL1	Additional I/O Module w/ 1 Form C Relay Output and 2 Digital Inputs
Potentiom	eter
ESVZXM1	NEMA 4X terminal cover with integral speed potentiometer (W = 6.3 or 7.1 in)
ESVZXM2	NEMA 4X terminal cover with integral speed potentiometer (W = 9.0 or 8.1 in)
ESVZXM3	NEMA 4X terminal cover with integral speed potentiometer (W = 9.4 in)

Dynamic Braking Modules with Built-in Resistors						
		208 to 230 V	Motor Voltage 400 to 480 V	480 to 600 V		
HP	(kW)	Part Number	Part Number	Part Number		
0.33 - 0.5	(0.25-0.37)	EZXDB3712A1	EZXDB3714A1	N/A		
1 - 1.5	(0.75 - 1.1)	EZXDB1122A1	EZXDB1124A1	EZXDB1126A1		
2 - 3	(1.5 - 2.2)	EZXDB2222A1	EZXDB2224A1	EZXDB2226A1		
5	(4)	EZXDB4022A1	EZXDB4024A1	EZXDB4026A1		
7.5	(5.5)	EZXDB5522A1	EZXDB5524A1	EZXDB5526A1		
10	(7.5)	EZXDB7522A1	EZXDB7524A1	EZXDB7526A1		
Dynamic Br	raking Modul	es without Bui	It-in Resistors			
15 - 20	(11 - 15)	EZXDC1532A1	N/A	N/A		
15 - 30	(11 - 22)	N/A	EZXDC2234A1	EZXDC2236A1		
Open Dyna	mic Braking	Resistors with	mounting brac	kets		
15 - 20	(11 - 15)	841-009	841-009	841-010		
25 - 30	(18.5 - 22)	N/A	841-011	841-012		

ATTACHMENT 3 (PILOT STUDY REPORT)

PILOT STUDY REPORT ABANDONED SOLVENT CENTER SITE

POMPEY, NY NYSDEC No. 734035

PREPARED ON BEHALF OF
THE ABANDONED SOLVENT CENTER SITE PARTICIPATING PARTIES

PREPARED BY

TETRA TECH
175 NORTH CORPORATE DRIVE SUITE 100
BROOKFIELD, WI 53045
(262) 792-1282

TETRA TECH PROJECT No. 117C-GE-00048

SEPTEMBER 2022



175 North Corporate Drive, Brookfield, Wisconsin 53045

PILOT STUDY REPORT ABANDONED SOLVENT CENTER SITE

POMPEY, NY NYSDEC No. 734035

PREPARED ON BEHALF OF
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PREPARED BY:

TETRA TECH

175 NORTH CORPORATE DRIVE SUITE 100 BROOKFIELD, WI 53045 (262) 792-1282

CERTIFICATION STATEMENT

I, <u>JAMES RUSSELL DICKSON</u>, certify that I am currently a NYS registered professional engineer as defined in 6 NYCRR Part 375 and that this Pilot Study Report was prepared in accordance with all applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).

089100 PE 09/21/2022 DATE



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Figure 1: Pilot Study System Configuration Figure 2: CCC Pilot Study Skid

Tables

Table 1: Summary of Target Compounds Analytical Results

Appendices

Appendix A: Site Photograph logs Appendix B: Field Forms

Appendix C: Complete Laboratory Analytical Results

ACRONYMS AND ABBREVIATIONS

μg/L Micrograms per Liter

1,1,1-TCA 1,1,1-Trichloroethane

1,1-DCA 1,1-Dichloroethane

1,2-DCE 1,2-Dichloroethene

1,4-Dioxane

CCC Calgon Carbon Corporation

CVOCs Chlorinated Volatile Organic Compounds

GAC Granular Activated Carbon

GE General Electric Company

gpd Gallons Per Day

gph Gallons Per Hour

gpm Gallons Per Minute

LGAC Liquid-Phase Granular Activated Carbon

MEK 2-Butanone

ND Non-detect

NS Not Sampled

NYSDEC New York State Department of Environmental Conservation

TCE Trichloroethene

TCL Target Compound List

Tetra Tech, Inc.

US 20 U.S. Highway 20

USEPA United States Environmental Protection Agency

VOCs Volatile Organic Compounds

1.0 INTRODUCTION

Tetra Tech, Inc. (Tetra Tech) prepared this report on behalf of the participating parties, General Electric Company (GE) and Bristol-Myers Squibb Company, to present the results of the pilot study for the treatment of volatile organic compounds (VOCs) and 1,4-dioxane (1,4-D) in groundwater at the GE Pompey Site in New York using conventional granular activated carbon (GAC).

This study was requested by the New York State Department of Environmental Conservation (NYSDEC) in correspondence dated October 25, 2021. This study satisfies the requirements outlined in the Administrative Order on Consent (effective August 1, 1995) and the Partial Consent Decree (No. 97 CV-0976) dated December 15, 1997.

1.1 Background

The Abandoned Solvent Center site occupies approximately 6.5 acres at the intersection of U.S. Highway 20 (US 20) and Ridge Road (County Road 128) in the Town of Pompey, Onondaga County, New York. US 20 and Ridge Road form the northwestern and eastern borders of the site, respectively. The surrounding area is rural agricultural with several residential properties and one business immediately adjacent to the site.

The former septic system (tank and leach field) at the site appeared to be the primary source of chlorinated VOCs (CVOCs) contamination, specifically, 1,1,1-trichloroethane (1,1,1-TCA) and trichloroethene (TCE) and their respective breakdown products 1,1-dichloroethane (1,1-DCA) and 1,2-dichloroethene (1,2-DCE). The site currently has an air stripper that treats these identified contaminants.

During the sampling of onsite monitoring wells in 2020, a potential secondary source of 1,4-D was observed from the existing treatment system's discharge to the surface water ditch located near US 20. The presence of the elevated 1,4-D concentration in the treatment system's discharge indicated the inability of the current system to treat 1,4-D; thus, the need for a new technology to augment or replace the existing treatment system. The existing treatment system is an air stripper operating in a batch process of up to 20 gpm with and equalization tank with a normalized flow of less than 1 gpm.

On August 6, 2021, Tetra Tech submitted to the NYSDEC on behalf of the Participating Parties an evaluation of treatment options for 1,4-D including treatment using carbon (with and without air stripping), treatment with resin (AmbersorbTM), and an advanced oxidation process. All the remedial options were considered viable in treating 1,4-D and the target CVOCs and capable of meeting applicable regulatory requirements. The carbon treatment option was selected as the preferred alternative based on research conducted during the focused feasibility study, recommendation by a GAC media vendor (Calgon Carbon Corporation) experienced with similar treatability studies at other sites, results from successful implementation of the GAC technology at an adjacent drinking water treatment system, and it had the lowest capital and annual operation and maintenance costs compared to the other options.

Tetra Tech proposed that a pilot study should be performed to confirm the effectiveness of the selected GAC option in treating 1,4-D in the groundwater at the site. On October

25, 2021, the NYSDEC concurred with the proposal and requested a revised treatment system design plan for evaluation and approval.

1.2 Pilot Study Objectives

The primary objectives of the pilot test were to determine the effectiveness of the selected remedial technology in reducing the concentration of 1,4-D and target VOCs in groundwater; evaluate the breakthrough of 1,4-D in the GAC system; and acquire data needed to design a new full-scale treatment system.

2.0 TEST DESIGN

The pilot study was designed to simulate full-scale batch groundwater treatment at 10 gpm using three liquid-phase granular activated carbon (LGAC) vessels in series. The flow rate is the minimum hydraulic loading rate allowed for 1,000-pound LGAC vessels to prevent channeling (i.e., flowing through the path with the least resistance) and also ensure that the entire carbon bed is utilized. The pilot study setup consisted of a Calgon Carbon Corporation (CCC) provided pilot study test skid with 4-inch diameter carbon columns and dual inlets. Since the actual system operates intermittently, two 500-gallon vertical tanks were connected in series to provide a reservoir of approximately 1.000 gallons of untreated water with the outlet of a second tank overflowing into an existing system T-300 equalization tank prior to acid addition. This tank holds and provides a constant feed of untreated water to the pilot skid even if the existing system is taken offline by equipment issues between site visits. Water from the second 500-gallon tank was pumped into the pilot study test skid columns for treatment using a Pulsafeeder Pulsatron diaphragm metering pump. This pump had easy flow rate control and turndown (stroke) features. The metering pump was used to maintain the flow rate of the system based on the determined stroke length and rate. The treated water from the skid was initially discharged into the equalization tank T-300 to complete the treatment cycle. The system configuration is presented in Figure 1 and the pilot study skid is presented in Figure 2. Photographs No. 1 and 2 in Appendix A, show the arrival and dissembling of the test skid for the pilot study.

The CCC skid had dual inlets and four small vertical treatment columns with a 4-inch diameter and the skid. The unit had tubes, pressure regulating valves, needle valves, and flow meters for adjusting flow. Photographs No. 3 and 4 in Appendix A, show the front and rear views of the skid, respectively.

The columns in the unit were prefilled with dry GAC (Calgon® OLC 12x40) for treatment. Virgin GAC was used instead of regenerated GAC because the pore structure of virgin GAC enables it to remove a wider range of contaminants in water as compared to the regenerated GAC. In addition, the effective sorption area of regenerated GAC degrades over time requiring more frequency changeouts. The pilot unit has four columns but only three of the columns were used in the pilot study. The fourth column was also filled with GAC and it acted as a spare column. The three columns were operated in series and the contaminated groundwater was allowed to flow continuously through the columns at a controlled flow rate of 0.091 gpm to simulate 10 gpm at a full-scale operation. The design parameters of the columns used in the study are presented on the next page.

Design Parameters for GAC Columns Used in Pilot Study

Parameter	Value
Diameter of Column (inches)	4.0
Length of Column (feet)	5.0
Number of Columns	3.0
Depth of GAC in a Column (feet)	3.66
Apparent Density of GAC (grams per cubic centimeters)	0.535
Density of GAC (Pounds per cubic foot)	28.38

3.0 FIELDWORK, SAMPLING, AND ANALYSIS

3.1 Test Skid Installation and Startup

Field activities for this pilot study began on January 22, 2022 and were completed on April 6, 2022. These activities included mobilizing to the site, installing the CCC pilot test skid, setting up the system, troubleshooting the equipment, and collecting samples for laboratory analysis.

On January 27, 2022, Tetra Tech field personnel mobilized to the site to accept, inspect, and set up the skid for the study; however, parts of the skid including the air release valve, regular valve, check valves, piping, and fitting were damaged in transit. Photographs No. 5 through 7 (Appendix A) show the damaged parts of the skid. Replacement parts were procured, and the system setup was completed on February 2, 2022. During the system setup, the metering pump was tested for performance; the hoses, pipes, and columns were inspected for leaks; and the water levels in the 500-gallon tanks associated with the existing system were inspected for overflow. Based on the design of the system, an overflow of water from the 500-gallon tanks into the equalization/mixing tank of the air stripper was anticipated to ensure that the system was properly set up to meet the objectives of the study. After the system setup was completed, the dry GAC in the columns was soaked with clean water from a 50-gallon tank conveyed to the site. The GAC was soaked for a minimum of 24 hours to ensure the pores were saturated with water and all air was displaced.

On February 8, 2022, each of the GAC columns was backwashed with clean water at 0.55 gpm before the pilot study began to remove any fines and sort the carbon beds. The columns were flushed until the water in the three columns was clear. Approximately 16.4 gallons of water were used to backwash each column. The metering pump was adjusted to a stroke length of 22 and a stroke rate of 65 to achieve a flow of 5.5 gallons per hour (gph), the average target flow rate. The volume of water measured by the totalizer per event was recorded on the field logs presented in Appendix B.

3.2 Test Skid Monitoring, Sampling, and Analysis

During the pilot study, the skid was monitored for any changes in the physical appearance of the water in the column including bubbles formation, turbidity, sedimentation, and precipitation. Tetra Tech field personnel measured the temperature, pH, and electrical conductivity of the water in the skid and sampled water from the time series influent (sample 1), post-column 1 (sample 2), post-column 2 (sample 3), and post-column 3 or effluent (sample 4) for chemical analysis. (The system was assumed to be arranged in series as influent, lead, mid-lag, and lag.) The samples were collected weekly or biweekly depending on the predetermined schedule and field/laboratory results. The samples were collected in laboratory-provided containers for target compound list (TCL) VOCs analysis by United States Environmental Protection Agency (USEPA) Method 8260C and 1,4-D analysis by USEPA Method 8270D SIM with isotope dilution. The samples were transported on the same day of collection to Eurofins Test America Buffalo Laboratories in Amherst, New York for analyses using the chain-of-custody protocol. The samples

were transported to the laboratory accompanied by the collected quality assurance and quality control samples. The field documentation is presented in Appendix B.

3.3 Inspections, Tuning, Maintenance, and Troubleshooting

During the pilot study, the system was inspected weekly prior to and after sampling of the columns to ensure that the test skid is functioning as intended. The system was inspected for leaks, sediment buildup, turbidity, and water level. During each visit, the metering pump was inspected to ensure the designed rate of 5.5 gph (0.09 gpm) or equivalent was maintained through the system. Maintenance and troubleshooting of the system were done when necessary. Cleaning of the test skid and the adjustment of the control settings on the metering pump were done frequently to ensure proper operation of the system and related components.

4.0 PILOT TEST RESULTS AND DISCUSSION

4.1 Pilot Study Analytical Results

Table 1 presents a summary of the analytical results of the pilot study and the complete analytical results are presented in Appendix C.

1,4-D in the influent, post-column 1, post-column 2, and the effluent samples ranged from 61 to 84 micrograms per liter (μ g/L), non-detect (ND) to 91 μ g/L, ND to 71 μ g/L, and ND to 15 μ g/L, respectively. A summary of the 1,4-D results during the pilot study is summarized below.

Pilot Study 1,4-Dioxane Sampling Results

Elapsed 1,4-Dioxane Concentration						
Date	Time (Days)	Influent (µg/L)	Post- Col. 1 (µg/L)	Post- Col. 2 (µg/L)	Post- Col. 3 (µg/L)	Target* Effluent Conc. (µg/L)
2/08/2022 15:25	0	NS	NS	NS	NS	1.0/0.35
2/16/2022 14:25	8	61 E	0.2 U	0.2 U	0.2 U	1.0/0.35
2/22/2022 14:25	14	71 E	0.66	0.2 U	0.2 U	1.0/0.35
3/10/2022 18:10	30	84 E	44 E	0.39	0.2 U	1.0/0.35
3/24/2022 15:50	44	76 E	91 E	20 E	0.26	1.0/0.35
3/30/2022 17:30	50	70	81	49 E	1.9	1.0/0.35
4/06/2022 9:57	57	67	89	71	15	1.0/0.35

Note:

 μ g/L = micrograms per liter; Col. = Column; conc. = concentration; NS = not sampled; E = indicates the analyte exceeded the highest calibration standard; U = indicates the compound was analyzed but not detected.

- 1,4-D was not detected in the first column (post-column 1) after the second week, the second column (post-column 2) after the third week, and the third column (post-column 3) after the fourth week. The analytical results indicated non-detect VOCs except for the following compounds:
 - 2-Butanone (MEK) was detected in post-column 2 but was absent in post-column
 1 during the February 16, 2022 sampling event.
 - Carbon disulfide was detected in effluent and post-column 1 during the March 10, 2022, sampling event.
 - Carbon disulfide was detected in the effluent and post-columns 1 and 2; acetone
 was detected in the post-columns 1 and 2; and MEK was detected in post-column
 2 during the March 24, 2022 sampling event.

The presence of these compounds could be related to laboratory contamination or anomalies during analysis since these were never detected in the influent stream.

 $^{^*}$ The NYSDEC screening criteria for 1,4-D in raw water sources is 0.35 μ g/L and the New York State Department of Health Maximum Contaminant Level for finished drinking water, adopted in August 2020 is 1.0 μ g/L.

It should be noted that all VOCs in the water that passed through the pilot study system remained below detection in all columns, apart from the untreated water in the influent stream.

4.2 Pilot Study Corrective Actions

Below is a summary of the corrective actions taken during the study.

- During a visit to the site on February 16, 2022, the air stripper pH alarm was triggered due to an acid addition issue. This resulted in the treated water from the pilot overflowing into the building sump. The water was pumped back to the system inlet sump for treatment by the system and to clear the building sump alarm for the system to be restarted. During the same day, the flow of water through the system was about 3 gph (lower than the 5.5 gph target designed flow rate). The stroke length and rates of the metering pump were adjusted to maintain the flow within the design range. The discharge of the pilot skid columns was relocated to the outfall pipe to ensure the building does not flood from the overflow if the system had issues during future sampling events.
- During a visit to the site on February 22, 2022, bubbles were observed in the water column due to leaks caused by damaged components on the skid. The damaged areas were patched using putty and clamps to ensure the beds in the columns remained saturated (Photographs No. 8 and 9 in Appendix A).
- During a visit to the site on March 10, 2022, sediments were observed to have accumulated on top of the GAC in post-column 1 due to the presence of suspended materials in the influent (shown in Appendix A, Photograph No. 10). The accumulated sediment did not affect the performance of the GAC in treating the water. The full-scale system concept will include the installation of bag filters before connection to the carbon vessels to remove sediments and other fine particles; thus, addressing this concern.
- During a visit to the site on March 22, 2022, the system flow rate was observed below the designed flow rate. The stroke length was adjusted to obtain flow rates ranging from 5.2 to 5.4 gph.

5.0 DATA EVALUATION AND DISCUSSION

Results and observations made during the pilot study are discussed below.

5.1 Pilot System Operation

There were no significant differences in the results obtained from the predictive isotherm model provided by CCC and that of the pilot study. The predictive isotherm model indicated a carbon usage rate of 1.7 pounds of GAC per 1,000 gallons of water treated. The predictive model calculation is as follows:

- Volume of carbon required: 10 gpm x 20 minutes = 200 gallons
- Mass of carbon required: 200 gallons of 3.8 pounds/gallon (coconut) = 760 pounds per vessel
- Implication: Cyclesorb FP-1 (or equivalent) with 1000 pounds of GAC per vessel is required
- Empty bed contact time: 26.3 minutes per vessel
- Minimum superficial velocity: 1 gpm per square feet

The design parameters of the pilot study are presented below.

Pilot Study Design Parameters

Parameter	Value
Flow Rate (gallons per minute)	0.092
Flow Rate (cubic centimeter per minute)	343
Cross-Sectional Area (square feet)	0.087
Superficial Velocity (gallons per minute per square feet)	1.04
Weight of GAC in Column (pounds)	9.07
GAC Column Volume (gallons)	2.40
Contact Time per Column (minutes)	26.36
Contact Time for all Columns (minutes)	79.08
Backwash Flow Rate (gallons per minute)	0.55
Volume per Backwash (gallons)	16.40

5.2 Pilot System Contaminant Removal Performance

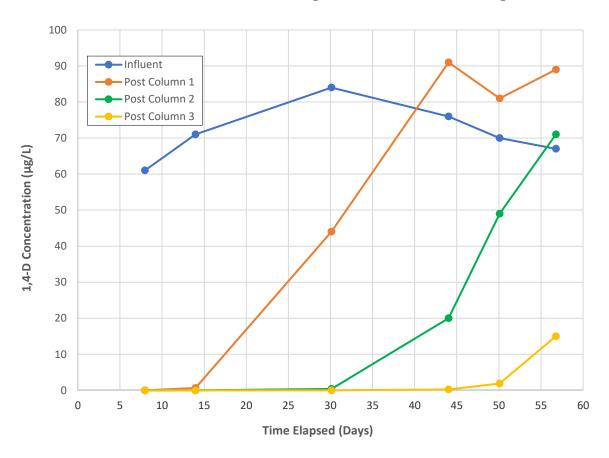
During the pilot study, the VOCs and 1,4-D in the influent were removed as the contaminants passed through post-columns 1 to 3, indicating that the contaminants were easily removed during the process. Except for the influent, the concentration of contaminants in the water reduced significantly as they passed through the GAC in the columns of the skid. The discussions of the pilot study results are limited to 1,4-D since this is the target contaminant of concern for this study.

The GAC used in the system effectively removed 1,4-D to concentrations below the detection limit of $0.2 \mu g/L$ from the effluent stream until 44 days of continuous operations

passed. The curve below shows the breakthrough of 1,4-D as it moves through the GAC. As indicated in the curve, only post-column 1 showed a complete breakthrough, meaning the column's effluent value was equal to or greater than the influent's value for the treatment of 1,4-D in the water as it moved through the columns. The curve shown by post-column 1 will continue to flatten out as a semi-steady state condition is reached; however, contaminant removal will continue for a prolonged period but at a minimal rate.

Due to the short duration of the study, post-columns 2 and 3 were yet to have a complete breakthrough for 1,4-D. However, based on the results from the predictive isotherm model and that of the treatability studies performed at other sites, the curve displayed by post-column 1 will be exhibited by post-columns 2 and 3 to indicate the effectiveness of GAC in treating the contaminants of concern. Except for the influent, all the GAC-filled test columns exhibited a gradual breakthrough of 1,4-D throughout the study. A complete breakthrough was observed in post-column 1 after 44 days indicating an apparent success in removing 1,4-D. The pilot-scale GAC usage rate of 1.57 pounds per 1,000 gallons of treated water was observed during the study.

1,4-Dioxane GAC Column Breakthrough Concentrations During Pilot Test



The curve above indicates that the spent GAC in post-column 1 should be replaced after 30-40 days of continuous flow and the Lead/Lag-1/Lag-2 series configuration should be alternated. After the initial lead vessel is changed and placed in the Lag-2 position, the initial Lag-1 GAC vessel becomes the new lead vessel, and the initial Lag-2 vessel becomes the new Lag-1 vessel.

The calculated flow rates through the columns during the pilot study to attain optimal treatability results are presented below.

Calculated and Measured Flow Rates During Pilot Test

Date & Time	Time Elapsed	Totalizer	Calcul	ated	Realtime Rotometer	
	(days)	(gallons)	Flow (gpd)	Flow (gph)	Reading (gph)	
2/08/2022 15:25	0	0	0	0	5.50	
2/16/2022 14:25	7.96	401.10	50.39	2.10*	5.50	
2/22/2022 14:25	13.96	1219.80	136.45	5.70	5.50	
3/10/2022 18:10	30.11	2890.40	103.44	4.30	6.00	
3/24/2022 15:50	44.02	4389.50	107.77	4.50	5.00	
3/30/2022 17:30	50.09	5261.90	143.72	6.00	5.80	
4/06/2022 9:57	56.77	7071.30	270.87	11.30	5.50	
			Average	5.13		

Note:

gpd = gallons per day; gph = gallons per hour

5.3 Contact Time

The empty bed contact time was determined as the volume of the empty bed divided by the flow rate. It is a measure of the time water is in contact with the GAC material, assuming all water passes through the GAC material at the same velocity. The estimated empty bed contact time during the pilot study was 26.4 minutes compared to the minimum predicted time of 20 minutes. It is expected that the general increase in the empty bed contact time will improve the removal of 1,4-D by GAC due to the longer contact time between the GAC material and the contaminated groundwater.

5.4 Full-Scale Operation Design

The full-scale operation design based on the pilot-scale values is presented on the next page.

^{*} The suction line was not installed deep in the tank; hence, it ran out of water.

Design Parameters for Full-Scale Treatment System

Parameter	Value
Total Flow rate (gallons per minute)	10
Vessel Diameter (feet)	3.5
Number of Vessels	3.0*
GAC Weight per vessel (pounds)	1,000
GAC Average Density (pounds per cubic feet)	28.38
Backwash Rate (gallons per minute per square feet)	6.25
Backwash Duration (minutes)	30
Vessel Superficial Velocity (gallons per minute per square feet)	1.04
GAC Vessel Volume (gallons)	264
Contact Time per Vessel (minutes)	26.36
Contact Time for all Vessels (minutes)	79.08
Backwash Flow (gallons per minute)	60
Volume per Backwash (gallons)	1,804

Note: *Additional vessel will be added as spare.

The actual flow rates observed in the Discharge Monitoring Reports for the site during the 2019, 2020, and 2021 sampling events were considered for the full-scale evaluation of the system at the design flow rate of 10 gpm. The flow rates are presented below.

Observed Historical Treatment System Flow Rates

		Duration			V. I.	Flow	Annual	Average
Quarter	Start	End	Days	Minutes	Volume (gal.)	Rate	Volume	Flow Rate
	Date	Date	Days	Williutes	(90.1)	(gpm)	(gal.)	(gpm)
Q1 2019	11/18/2018	2/21/2019	95	136,800	83,731	0.61		
Q2 2019	2/21/2019	5/20/2019	88	126,720	104,316	0.82	416,165	0.71
Q3 2019	5/21/2019	8/26/2019	97	139,680	88,052	0.63	410,100	0.71
Q4 2019	8/26/2019	12/27/2019	123	177,120	140,066	0.79		
Q1 2020	12/27/2019	3/30/2020	94	135,360	98,764	0.73		
Q2 2020	3/30/2020	6/22/2020	84	120,960	5,295	0.04	100 460	0.24
Q3 2020	6/22/2020	9/21/2020	91	131,040	7,565	0.06	128,468	0.24
Q4 2020	9/21/2020	12/22/2020	92	132,480	16,844	0.13		
Q1 2021	12/22/2020	3/30/2021	98	141,120	12,921	0.09		
Q2 2021	3/30/2021	7/8/2021	100	144,000	66,432	0.46	220.064	0.65
Q3 2021	7/8/2021	10/4/2021	88	126,720	194,190	1.53	330,864	0.65
Q4 2021	10/4/2021	12/21/2021	78	112,320	57,321	0.51		

Note: Gal. = gallons; gpm = gallons per minute; Q = Quarter

The maximum average flow rate observed at the site from the first quarter of 2019 to the fourth quarter of 2021 was 0.71 gpm. The actual system will be monitored for any detectable breakthroughs following the Lag-1 vessel and changeouts made on the lead vessel once observed. The pilot study was designed as a continuous system operating at a flow rate of 0.092 gpm, which simulates the surficial loading rate of a full-scale 1,000-pound GAC vessel.

Based on historical operational data, the full-scale system is expected to treat up to 416,000 gallons of water annually. The pilot test results show the GAC material to have a consumption of approximately 1.57 pounds of GAC per 1,000 gallons of water treated, which provides approximately 636,943 gallons of treatment capacity for the full-scale operation. This results in a maximum estimated GAC changeout for the full system of 560 days. This treatment capacity could be slightly reduced during subsequent changeouts due to initial loading on the new lead vessel.

6.0 CONCLUSIONS AND RECOMMENDATIONS

6.1 Conclusions

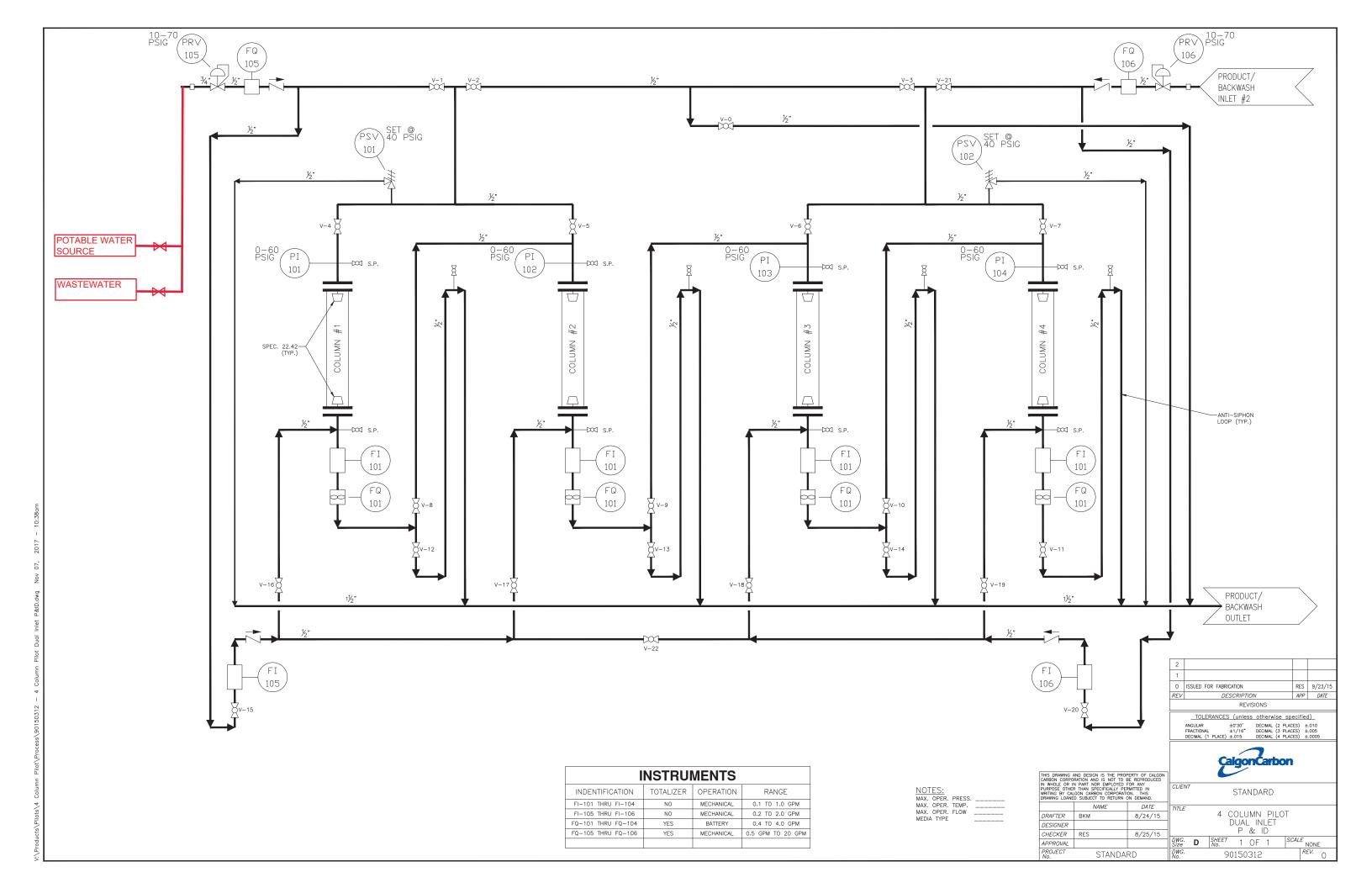
This pilot study provided operational and design information for the proposed new system for treating target contaminants 1,4-D and the TCL VOCs, especially 1,1,1-TCA, TCE, 11,1-DCA, and 1,2-DCE. The results obtained during the study were similar to that of the predictive isotherm model presented by CCC, indicating that the selected option (GAC) is capable of remediating the target contaminant 1,4-D to concentrations below 0.35 μ g/L (the NYSDEC screening criteria for 1,4-D in raw water sources).

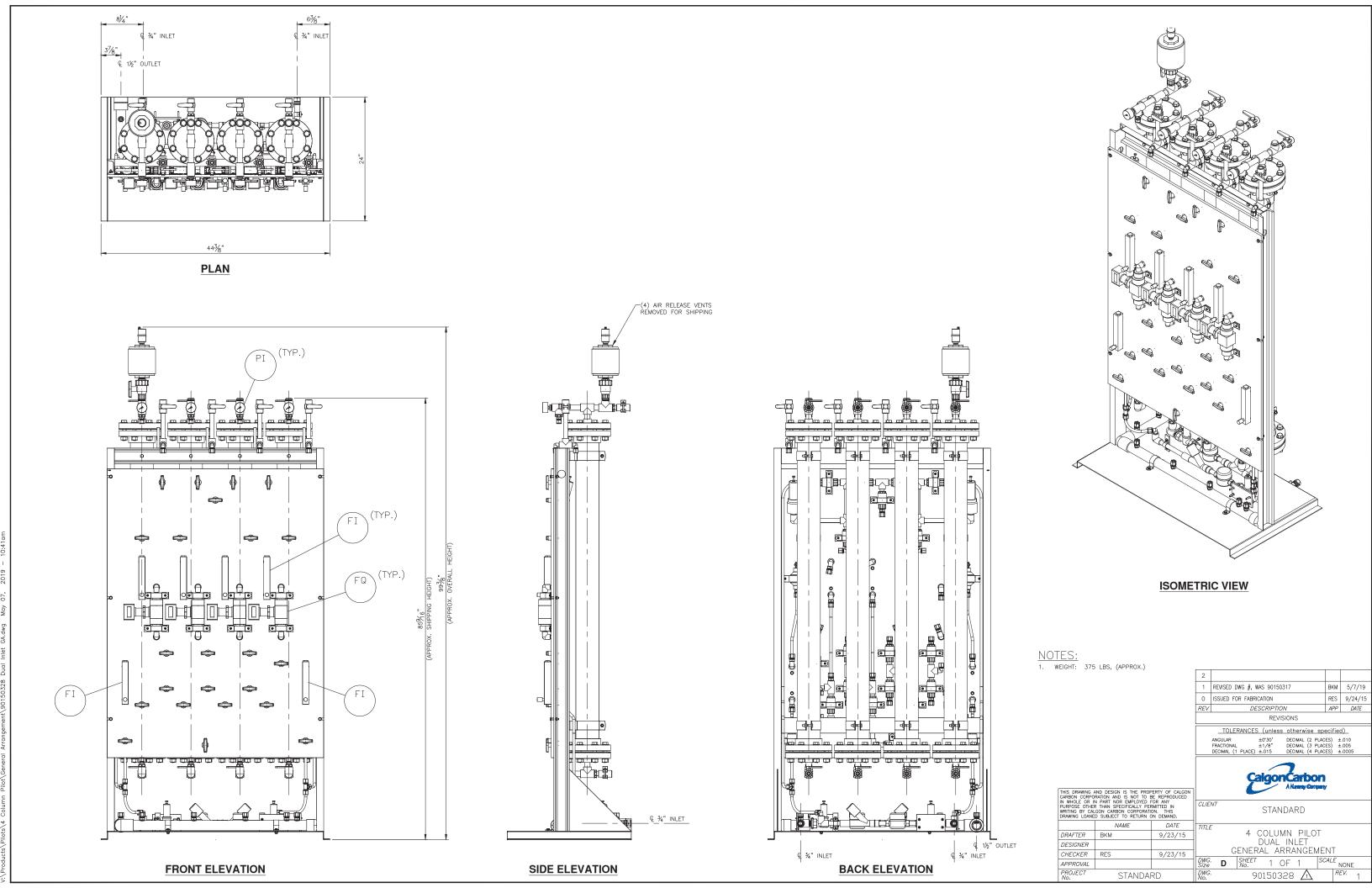
Based on the results of the pilot study, a remedial design will be completed for the treatment system. The design report will include the results of the pilot study, design criteria, design basis, process description, system layout, system operation and maintenance, and associated drawings and specifications.

6.2 Recommendations

It should be noted that the groundwater treatment at the site using GAC and a flow rate higher than 10 gpm will not give optimal results under normal circumstances. The use of three GAC columns in series during the pilot study provided results that met the goal of the study; hence, three GAC vessels will be used in the full-scale operation and the flow of water through the vessels will be constrained to 10 gpm to ensure that the estimated empty bed contact time of 26.4 minutes per vessel is maintained. It is recommended that the virgin coconut shell carbon (Calgon[®] OLC 12x40 or similar) used in the pilot study should be maintained in the full-scale operation since it has a better sorptive capacity and a longer lifespan. The estimated changeout for the spent GAC should be done annually.

FIGURES





TABLE

					INFLUENT			
ANALYTE	NYSAWQS	02/08/22	02/16/22	02/22/22	03/10/22	03/24/22	03/30/22	04/06/22
ANGELLE	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
1,4-Dioxane	50	NS	61 E	71 E	84 E	76 E	70	67
1,1,1-Trichloroethane	5.0	NS	6.5	4.0 U				
1,1,2,2-Tetrachloroethane	NA	NS	5.0 U	4.0 U	4.0 U	4.0 U	4.0 U	NR
1,1,2-Trichloro-1,2,2-Trifluoroethane	NA	NS	5.0 U	4.0 U	4.0 U	4.0 U	4.0 U	NR
1,1,2-Trichloroethane	1.0	NS	5.0 U	4.0 U	4.0 U	4.0 U	4.0 U	NR
1,1-Dichloroethane	5.0	NS	5.0	22	35	24	12	19
1.1-Dichloroethene	5.0	NS	5.0 U	4.0 U				
1,2,4-Trichlorobenzene	NA	NS	5.0 U	4.0 U	4.0 U	4.0 U	4.0 U	NR
1,2-Dibromo-3-Chloropropane	NA	NS	5.0 U	4.0 U	4.0 U	4.0 U	4.0 U	NR
1,2-Dibromoethane (Ethylene Dibromide)	NA	NS	5.0 U	4.0 U	4.0 U	4.0 U	4.0 U	NR
1,2-Dichlorobenzene	NA	NS	5.0 U	4.0 U	4.0 U	4.0 U	4.0 U	NR
1,2-Dichloroethane	NA	NS	5.0 U	4.0 U	4.0 U	4.0 U	4.0 U	NR
1,2-Dichloropropane	NA	NS	5.0 U	4.0 U	4.0 U	4.0 U	4.0 U	NR
1,3-Dichlorobenzene	NA	NS	5.0 U	4.0 U	4.0 U	4.0 U	4.0 U	NR
2-Hexanone	NA	NS	25 U	20 U	20 U	20 U	20 U	NR
Acetone	50	NS	50 U	40 U	40 U	40 U	40 U	NR
Benzene	1.0	NS	5.0 U	4.0 U	4.0 U	4.0 U	4.0 U	NR
Bromodichloromethane	5.0	NS	5.0 U	4.0 U	4.0 U	4.0 U	4.0 U	NR
Bromoform	50	NS	5.0 U	4.0 U	4.0 U	4.0 U	4.0 U	NR
Carbon Disulfide	NA	NS	5.0 U	4.0 U	4.0 U	4.0 U	4.0 U	NR
Carbon Tetrachloride	5.0	NS	5.0 U	4.0 U	4.0 U	4.0 U	4.0 U	NR
Chlorobenzene	NA	NS	5.0 U	4.0 U	4.0 U	4.0 U	4.0 U	NR
Chloroethane	NA	NS	5.0 U	4.0 U	4.0 U	4.0 U	4.0 U	NR
Chloroform	7.0	NS	5.0 U	1.5 J	4.0 U	4.0 U	4.0 U	NR
Chloromethane	5.0	NS	5.0 U	4.0 U	4.0 U	4.0 U	4.0 U	NR
Cis-1,2-Dichloroethylene	5.0	NS	200	140	240	170	99 T	140
Cis-1,3-Dichloropropene	NA	NS	5.0 U	4.0 U	4.0 U	4.0 U	4.0 U	NR
Cyclohexane	NA	NS	5.0 U	4.0 U	4.0 U	4.0 U	4.0 U	NR
Dibromochloromethane	50	NS	5.0 U	4.0 U	4.0 U	4.0 U	4.0 U	NR
Dichlorodifluoromethane	NA	NS	5.0 U	4.0 U	4.0 U	4.0 U	4.0 U	NR
Ethylbenzene	5.0	NS	5.0 U	4.0 U				
Isopropylbenzene (Cumene)	NA	NS	5.0 U	4.0 U	4.0 U	4.0 U	4.0 U	NR
Methyl Acetate	NA	NS	13 U	10 U	10 U	10 U	10 U	NR
Methyl Ethyl Ketone (2-Butanone)	50	NS	50 U	40 U	40 U	40 U	40 U	NR
Methylcyclohexane	NA	NS	5.0 U	4.0 U	4.0 U	4.0 U	4.0 U	NR
Methylene Chloride	5.0	NS	5.0 U	4.0 U	4.0 U	4.0 U	4.0 U	NR
Styrene	5.0	NS	5.0 U	4.0 U	4.0 U	4.0 U	4.0 U	NR
Tert-Butyl Methyl Ether	NA	NS	5.0 U	4.0 U	4.0 U	4.0 U	4.0 U	NR
Tetrachloroethylene	5.0	NS	5.0 U	4.0 U				
Toluene	5.0	NS	5.0 U	4.0 U				
Trans-1,2-Dichloroethene	5.0	NS	5.0 U	4.0 U				
Trans-1,3-Dichloropropene	NA	NS	5.0 U	4.0 U	4.0 U	4.0 U	4.0 U	NR
Trichloroethylene	5.0	NS	7.7	4.6	5	3.3 J	4.0 U	4.0
Trichlorofluoromethane	NA	NS	5.0 U	4.0 U	4.0 U	4.0 U	4.0 U	NR
Vinvl Chloride	2.0	NS	5.0 U	4.0 U	37	5.3	5.3	4.1
Xylenes	5.0	NS	10 U	8.0 U	8.0 U	8.0 U	8.0 U	8.0 U
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.0	110		0.0	0.00	0.00	0.00	0.0 0

				PC	OST COLUMN	N 1		
ANALYTE	NYSAWQS	02/08/22	02/16/22	02/22/22	03/10/22	03/24/22	03/30/22	04/06/22
	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
1,4-Dioxane	50	NS	0.2 U	0.66	44 E	91 E	81	89
1,1,1-Trichloroethane	5.0	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	NA	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NR
1,1,2-Trichloro-1,2,2-Trifluoroethane	NA	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NR
1,1,2-Trichloroethane	1.0	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NR
1,1-Dichloroethane	5.0	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5.0	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	NA	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NR
1,2-Dibromo-3-Chloropropane	NA	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NR
1,2-Dibromoethane (Ethylene Dibromide)	NA	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NR
1,2-Dichlorobenzene	NA	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NR
1,2-Dichloroethane	NA	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NR
1,2-Dichloropropane	NA	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NR
1,3-Dichlorobenzene	NA	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NR
2-Hexanone	NA	NS	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NR
Acetone	50	NS	10 U	10 U	10 U	5.9 J	10 U	NR
Benzene	1.0	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NR
Bromodichloromethane	5.0	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NR
Bromoform	50	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NR
Carbon Disulfide	NA	NS	1.0 U	1.0 U	0.19 J	0.41 J	1.0 U	NR
Carbon Tetrachloride	5.0	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NR
Chlorobenzene	NA	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NR
Chloroethane	NA	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NR
Chloroform	7.0	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NR
Chloromethane	5.0	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NR
Cis-1,2-Dichloroethylene	5.0	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cis-1,3-Dichloropropene	NA	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NR
Cyclohexane	NA	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NR
Dibromochloromethane	50	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NR
Dichlorodifluoromethane	NA	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NR
Ethylbenzene	5.0	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	NA	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NR
Methyl Acetate	NA	NS	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	NR
Methyl Ethyl Ketone (2-Butanone)	50	NS	10 U	10 U	10 U	10 U	10 U	NR
Methylcyclohexane	NA NA	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NR
Methylene Chloride	5.0	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NR
Styrene	5.0	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NR
Tert-Butyl Methyl Ether	NA NA	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NR
Tetrachloroethylene	5.0	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5.0	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trans-1.2-Dichloroethene	5.0	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trans-1,3-Dichloropropene	NA	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NR
Trichloroethylene	5.0	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	NA	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NR
Vinyl Chloride	2.0	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes	5.0	NS	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Ayiciico	5.0	INO	2.0 U	2.0 U	2.0 U	2.0 U	2.U U	



				PC	OST COLUMN	N 2		
ANALYTE	NYSAWQS	02/08/22	02/16/22	02/22/22	03/10/22	03/24/22	03/30/22	04/06/22
	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
1,4-Dioxane	50	NS	0.2 U	0.2 U	0.39	20 E	49 E	71
1,1,1-Trichloroethane	5.0	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	NA	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NR
1,1,2-Trichloro-1,2,2-Trifluoroethane	NA	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NR
1,1,2-Trichloroethane	1.0	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NR
1,1-Dichloroethane	5.0	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5.0	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	NA	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NR
1,2-Dibromo-3-Chloropropane	NA	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NR
1,2-Dibromoethane (Ethylene Dibromide)	NA	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NR
1,2-Dichlorobenzene	NA	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NR
1,2-Dichloroethane	NA	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NR
1,2-Dichloropropane	NA	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NR
1,3-Dichlorobenzene	NA	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NR
2-Hexanone	NA	NS	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NR
Acetone	50	NS	10 U	10 U	10 U	65	4.4 J	NR
Benzene	1.0	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NR
Bromodichloromethane	5.0	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NR
Bromoform	50	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NR
Carbon Disulfide	NA	NS	1.0 U	1.0 U	1.0 U	0.39 J	1.0 U	NR
Carbon Tetrachloride	5.0	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NR
Chlorobenzene	NA	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NR
Chloroethane	NA	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NR
Chloroform	7.0	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NR
Chloromethane	5.0	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NR
Cis-1,2-Dichloroethylene	5.0	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cis-1,3-Dichloropropene	NA	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NR
Cyclohexane	NA	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NR
Dibromochloromethane	50	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NR
Dichlorodifluoromethane	NA	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NR
Ethylbenzene	5.0	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	NA	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NR
Methyl Acetate	NA	NS	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	NR
Methyl Ethyl Ketone (2-Butanone)	50	NS	4.1 J	10 U	10 U	130	5.7 J	NR
Methylcyclohexane	NA NA	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NR
Methylene Chloride	5.0	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NR
Styrene	5.0	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NR
Tert-Butyl Methyl Ether	NA NA	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NR
Tetrachloroethylene	5.0	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5.0	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trans-1.2-Dichloroethene	5.0	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trans-1,3-Dichloropropene	NA	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NR
Trichloroethylene	5.0	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	NA	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NR
Vinyl Chloride	2.0	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes	5.0	NS	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Aylettes	5.0	CVI	2.U U	2.0 U	2.U U	2.U U	2.0 U	2.U U



					EFFLUENT			
ANALYTE	NYSAWQS	02/08/22	02/16/22	02/22/22	03/10/22	03/24/22	03/30/22	04/06/22
	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
1,4-Dioxane	50	NS	0.2 U	0.2 U	0.2 U	0.26	1.9	15
1,1,1-Trichloroethane	5.0	NS	1.0 U					
1,1,2,2-Tetrachloroethane	NA	NS	1.0 U	NR				
1,1,2-Trichloro-1,2,2-Trifluoroethane	NA	NS	1.0 U	NR				
1,1,2-Trichloroethane	1.0	NS	1.0 U	NR				
1.1-Dichloroethane	5.0	NS	1.0 U					
1.1-Dichloroethene	5.0	NS	1.0 U					
1,2,4-Trichlorobenzene	NA	NS	1.0 U	NR				
1,2-Dibromo-3-Chloropropane	NA	NS	1.0 U	NR				
1,2-Dibromoethane (Ethylene Dibromide)	NA	NS	1.0 U	NR				
1.2-Dichlorobenzene	NA	NS	1.0 U	NR				
1.2-Dichloroethane	NA	NS	1.0 U	NR				
1.2-Dichloropropane	NA	NS	1.0 U	NR				
1.3-Dichlorobenzene	NA	NS	1.0 U	NR				
2-Hexanone	NA	NS	5.0 U	NR				
Acetone	50	NS	10 U	NR				
Benzene	1.0	NS	1.0 U	NR				
Bromodichloromethane	5.0	NS	1.0 U	NR				
Bromoform	50	NS	1.0 U	NR				
Carbon Disulfide	NA	NS	1.0 U	1.0 U	0.22 J	1.7	1.0 U	NR
Carbon Tetrachloride	5.0	NS	1.0 U	NR				
Chlorobenzene	NA	NS	1.0 U	NR				
Chloroethane	NA	NS	1.0 U	NR				
Chloroform	7.0	NS	1.0 U	NR				
Chloromethane	5.0	NS	1.0 U	NR				
Cis-1,2-Dichloroethylene	5.0	NS	1.0 U					
Cis-1,3-Dichloropropene	NA	NS	1.0 U	NR				
Cyclohexane	NA	NS	1.0 U	NR				
Dibromochloromethane	50	NS	1.0 U	NR				
Dichlorodifluoromethane	NA	NS	1.0 U	NR				
Ethylbenzene	5.0	NS	1.0 U					
Isopropylbenzene (Cumene)	NA	NS	1.0 U	NR				
Methyl Acetate	NA	NS	2.5 U	NR				
Methyl Ethyl Ketone (2-Butanone)	50	NS	10 U	NR				
Methylcyclohexane	NA NA	NS	1.0 U	NR				
Methylene Chloride	5.0	NS	1.0 U	NR				
Styrene	5.0	NS	1.0 U	NR				
Tert-Butyl Methyl Ether	NA NA	NS	1.0 U	NR				
Tetrachloroethylene	5.0	NS	1.0 U					
Toluene	5.0	NS	1.0 U					
Trans-1.2-Dichloroethene	5.0	NS	1.0 U					
Trans-1,3-Dichloropropene	NA	NS	1.0 U	NR				
Trichloroethylene	5.0	NS	1.0 U					
Trichlorofluoromethane	NA	NS	1.0 U	NR				
Vinyl Chloride	2.0	NS	1.0 U					
Xylenes	5.0	NS	2.0 U					
Ayiciics	ე.0	INO	2.U U	2.0 U	2.U U	2.U U	2.0 U	2.0 0



NOTE:

- E Value exceeded calibration value
- J Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
- T Analyzed outside of holding time
- U Indicates the compound was analyzed but not detected.
- μg/L micrograms per liter which is equivalent to parts per billion (ppb)
- NYSAWQS New York State Class GA Ambient Water Quality Standard
- Bold and yellow highlighted values exceed the compound's NYSAWQS.
- NA Not Applicable
- NR Values not report by the analytical laboratory



APPENDICES

APPENDIX A (SITE PHOTOGRAPHIC LOGS)

Photograph No.: 1

Project: GE Pompey Pilot Study

Site Name: Abandoned Solvent

Center

Site Location: Manlius, NY **Photo Date**: January 26, 2022 **Comments**: Arrival of packaged

pilot test skid from Calgon

Carbon Corporation



Photograph No.: 2

Project: GE Pompey Pilot Study

Site Name: Abandoned Solvent

Center

Site Location: Manlius, NY

Photo Date: January 26, 2022

Comments: Test skid being unboxed prior to system setup.



Photograph No.: 3

Project: GE Pompey Pilot Study

Site Name: Abandoned Solvent

Center

Site Location: Manlius, NY **Photo Date**: January 26, 2022 **Comments**: Front view of the

pilot test skid.



Photograph No.: 4

Project: GE Pompey Pilot Study

Site Name: Abandoned Solvent

Center

Site Location: Manlius, NY

Photo Date: January 26, 2022

Comments: Rear view of the

pilot test skid.



Photograph No.: 5

Project: GE Pompey Pilot Study

Site Name: Abandoned Solvent

Center

Site Location: Manlius, NY
Photo Date: March 10, 2022

Comments: Broken regular valve on the skid during shipping.



Photograph No.: 6

Project: GE Pompey Pilot Study

Site Name: Abandoned Solvent

Center

Site Location: Manlius, NY

Photo Date: January 26, 2022

Comments: Broken check valve on the skid during shipping.



Photograph No.: 7

Project: GE Pompey Pilot Study

Site Name: Abandoned Solvent

Center

Site Location: Manlius, NY
Photo Date: January 26, 2022
Comments: Broken air release valve on the skid during shipping.



Photograph No.: 8

Project: GE Pompey Pilot Study

Site Name: Abandoned Solvent

Center

Site Location: Manlius, NY

Photo Date: March 18, 2022

Comments: Repaired damaged part of the pilot study test skid using putty and clamps to

prevent leaks.



Photograph No.: 9

Project: GE Pompey Pilot Study

Site Name: Abandoned Solvent

Center

Site Location: Manlius, NY

Photo Date: March 18, 2022 Comments: Repaired damaged

part of the pilot study test skid using putty and clamps to

prevent leaks.



Photograph No.: 10

Project: GE Pompey Pilot Study

Site Name: Abandoned Solvent

Center

Site Location: Manlius, NY

Photo Date: January 26, 2022

Comments: Presence of suspended materials above the GAC in the post-column 1.



APPENDIX B (FIELD FORMS)

INSPECTION FORMS

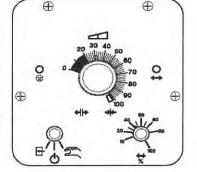
Field Log Date: 02/08/2022, 15:25

Logs	Measurment	TARGET	Units	
FI-101	5.5	5.46	GPH	Average
FI-102	5.5	5.46	GPH	Average
Fi-103	5.6	5.46	GPH	Average

Pulsatron Pump	Actual	TARGET		
Stroke Length	22	22	%	М
Stroke Rate	65	100	%	Вс

Botttom right

Note: Only adjust while the pump is running or it may damage the pump.



Tolditer: 134. 3 gollons

		10				1	
Samples	Port	Sample ID	Date	Time	рН	Conductivity	Visual (Clear/Cloudy/Color)
Influent	SP C-1 IN						
Post Column 1	SP C-2 IN						
Post Column 2	SP C-3 IN						
Effluent	SP C-3 OUT						

Notes: flushed columns 1, 2, 3 till water clear.
- Set Calumn values to Normal 15:25

-Adjusted Strole to 21
all rate to 65 to achieve
5.5 GPH



Field Log Date: 2/16/22

_	Units	TARGET	Measurment	Logs
Averag	GPH	5.46	5.5	FI-101
Averag	GPH	5.46	5.5	FI-102
Averag	GPH	5.46	5.5	Fi-103

Totalizer: 401, 1 god foolity 9051271 gd

Pulsatron Pump	Actual	TARGET		
Stroke Length	24	22	%	Middle
Stroke Rate	100	65	%	Botttom right

Note: Only adjust while the pump is running or it may damage the pump.

US

Samples	Port	Sample ID	Date	Time	рН	Conductivity	Visual (Clear/Cloudy/Color)
Influent	SP C-1 IN	CITN	02/14/21	14:39	7.12	3871	clear, colo-less
Post Column 1	SP C-2 IN	C-ZIN	1	14:50	7.50	3914	class colorless
Post Column 2	SP C-3 IN	C-3IN		15:40	7.94	3943	dov ; cololer
Effluent	SP C-3 OUT	C-30UT	V	16:40	7.44	9013	des colorless

8,9°C 9,4°C 9,7°C

Notes: When arrived Air 5tripper Sups

pH alon was m. He sungs was overflowing

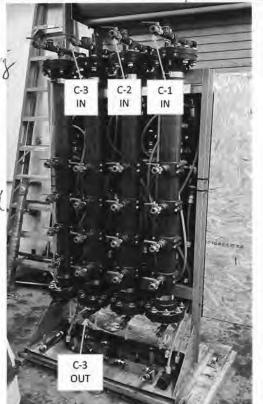
+ feel tale high level down were on. Water

was an floor. Tulet props does not

appear to be hidjen.

flow webers for Column were at 3 GVAL. when arrived to turned up pump to 1004. Strate pate + 24% strate longhe to advice 3.5 GPH.





Field Log

Date:

02-22-2022

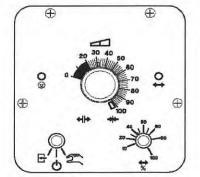
	Units	TARGET	Measurment	Logs
Averag	GPH	5.46	5.7	FI-101
Averag	GPH	5.46	5.2	FI-102
Averag	GPH	5.46	5.5	Fi-103

rage

Totalizer: 12/9,8

Pulsatron Pump	Actual	TARGET		
Stroke Length	22	22	%	М
Stroke Rate	90	65	%	Вс

Middle Botttom right



Note: Only adjust while the pump is running or it may damage the pump.

Samples	Port	Sample ID	Date	Time	рН	Conductivity	Visual (Clear/Cloudy/Color)
Influent	SP C-1 IN	Influct	07/77/17	11:50	7.11	2588	clear, colorless
Post Column 1	SP C-2 IN	Post Column)	27/27/10	12:29	7.25	2804	det, calqueless
Post Column 2	SP C-3 IN	PostColumn 2	02/22/22	12:40	7.412	2807	chest color less
Effluent	SP C-3 OUT	Effluent	02/33/25	13:10	7.62	2824	der colorless

12.7°C 12.7°C 12.8°C

13.100

Notes: Post Column 2 toler from SPC-LOUT

Con water comy from SPC-3 IN)

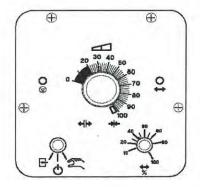


Field Log Date: 3-10-2022

Inits	Un	TARGET	Measurment	Logs
GPH A	GF	5.46	6.0	FI-101
GPH A	GF	5.46	5.8	FI-102
SPH A	GF	5.46	6.0	Fi-103

Totalizer:	2	89	0	4	
------------	---	----	---	---	--

Pulsatron Pump	Actual	TARGET		
Stroke Length	21	22	%	Middle
Stroke Rate	79	65	%	Botttom right



Note: Only adjust while the pump is running or it may damage the pump.

Samples	Port	Sample ID	Date	Time	рН	Conductivity	Visual (Clear/Cloudy/Color
Influent	SP C-1 IN	Influent	3-10-22	1813	7.23	2762	yellow, cloudy
Post Column 1	SP C-2 IN	Post Column		1825	7.28	2792	clear
Post Column 2	SP C-3 IN	Poet Column 2		1850	7.41	3895	clear
Effluent	SP C-3 OUT	Effluent	4	1900	7.55	2797	Clear

Notes: Sediment deposited at top 2" of carbon in Column I

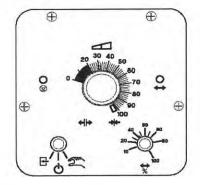


Field Log Date: 3/24/2022

	Units	TARGET	Measurment	Logs
Averag	GPH	5.46	5.2	FI-101
Averag	GPH	5.46	4.9	FI-102
Averag	GPH	5.46	5.0	Fi-103

Totalizer: 4	389.5
--------------	-------

Pulsatron Pump	Actual	TARGET		
Stroke Length	20	22	%	Middle
Stroke Rate	70	65	%	Botttom right



Note: Only adjust while the pump is running or it may damage the pump.

Samples	Port	Sample ID	Date	Time	рН	Conductivity	Visual (Clear/Cloudy/Color
Influent	SP C-1 IN	Influent	3-24-22	1555	7.13	2732	clear colorless
Post Column 1	SP C-2 IN	Column 1		1605	7.24	2595	clear, colorless
Post Column 2	SP C-3 IN	Post Column 2		16 12	7.05	2584	clear, coloriess
Effluent	SP C-3 OUT	Effluent		1630	7.06	2736	clear, colorless

Notes:

Adjusted stroke length to 22 F1-101 5.4 F1-102 5.2 F1-103 5.4

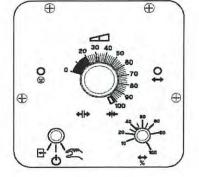


Field Log Date: 3/30/2022

Logs	Measurment	TARGET	Units	
FI-101	5.8	5.46	GPH	Average
FI-102	5.6	5.46	GPH	Average
Fi-103	6.0	5.46	GPH	Average

Totalizer:	5261	.9

Pulsatron Pump	Actual	TARGET		
Stroke Length	22	22	%	Middle
Stroke Rate	65	65	%	Botttom righ



Note: Only adjust while the pump is running or it may damage the pump.

Samples	Port	Sample ID Da		Time	pН	Conductivity	Visual (Clear/Cloudy/Color
Influent	SP C-1 IN	Influent	3/30/22	1735	7.24	2449	slightly abudy, yellowish
Post Column 1	SP C-2 IN	Columni	1	1746	7.33	2430	clear, colonless
Post Column 2	SP C-3 IN	Post Column 2		1753	7.20	2436	
Effluent	SP C-3 OUT	Effluent	N	1805	7.33	2468	1

Notes: Column slowly leaking at bottomnot affecting water retention in colums.



Date: 04/06/21, 9:57 Field Log

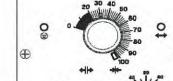
Totalize

Logs	Measurment	TARGET	Units
FI-101	5.5	5.46	GPH
FI-102	5.5	5.46	GPH
Fi-103	5.5	5.46	GPH

Average
Average
Average

er:	70	71	?	. /
	10	/ 1	,)	gd
				0

Pulsatron Pump	Actual	TARGET		
Stroke Length	22	22	%	Middle
Stroke Rate	71	65	%	Botttom righ



Note: Only adjust while the pump is running or it may damage the pump.

Samples	Port	Sample ID	Date	Time	рН	U.S Conductivity	Visual (Clear/Cloudy/Color)
Influent	SP C-1 IN	Fuffeet	04/6/11	10:02	6.85	2411	clear, sligt galler
Post Column 1	SP C-2 IN	PastColun I	4/6/11	12:57	7.20	2413	des colorless
Post Column 2	SP C-3 IN	Past (dum)	4/6/14	13:10	7.26	2448	deer, colorless
Effluent	SP C-3 OUT	FFFLent	9/6/22	13:16	7.20)436	clear refortess

Notes:



CHAIN OF CUSTODY FORMS

10 Hazelwood Drive Amherst NY 14228-2298

Chain of Custody Record

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Phone: 716-691-2600 Fax: 716-691-7991 Carrier Tracking No(s): COC No: Fischer, Brian J 480-169454-36972.1 Client Information E-Maš: State of Origin: Client Contact: Brian.Fischer@Eurofinset.com Page 1 of 5 Ms. Bailey Kudla-Williams Job#: Company: **Analysis Requested** Tetra Tech GEO Address: Due Date Requested: Preservation Codes: 3136 South Winton Road Suite 303 MOCIMEN A - HCL M - Hexano TAT Requested (days): City: B - NaOH N - None Rochester C - Zn Acetate 0 - AsNa02 MORMEN D - Nitric Acid P - Na2O4S State, Zip: E - NaHSO4 Q - Na2SO3 Compliance Project: A Yes A No NY 14623 F - MeOH R - Na2S2O3 Phone: PO#: G - Amchior S - H2SO4 510875 805-501-8053(Tel) H - Ascorbic Acid T - TSP Dodecahydrate WO#: 1-Ice U - Acetone Email: 8270D_SIM_MS_ID - 1,4-Dioxane J - Di Water V-MCAA bailey.kudlawilliams@tetratech.com Perform MS/MSD (Yes or No) K - EDTA W - pH 4-5 Project Name: Project #: L-EDA Z - other (specify) GE Pompey, NY Investigation 48023743 8260C - TCL IIst OLM04.2 SSOW#: Other: ₽ Total Number Matrix Sample (Wowater, Type S=solid, Sample (C=comp. O=wasteroll, Sample Date G=grab) Special Instructions/Note: Sample Identification Time BT=Tissue, A=Ali Preservation Code: Water intluent Dast Column Water 4:50 5 Water Water Water Water Water Water 02/16/20-19 Water Water Water Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Possible Hazard Identification Disposal By Lab Archive For Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological Return To Client Special Instructions/QC Requirements: Deliverable Requested: I, II, III, IV, Other (specify) Method of Shipment: Time: Empty Kit Relinquished by: Date: Date/Time: Company Relinquished by: 02/16/22 Relinquished by: Date/Time: Сотралу Date/Time: Relinguished by: Date/Time: Company Received by: Company Custody Seals Intact: Custody Seal No.: Cooler Temperature(s) °C and Other Remarks: ∆ Yes ∆ No

10 Hazelwood Drive Amherst, NY 14228-2298

Chain of Custody Record

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Phone: 716-691-2600 Fax: 716-691-7991 Sampler -Carrier Tracking No(s): COC No: Fischer, Brian J Client Information 480-169454-36972.2 Client Contact: Phone: E-Mail: State of Origin: Page: Ms. Bailey Kudla-Williams Brian.Fischer@Eurofinset.com Page 2 of 5 Company; Tetra Tech GEO **Analysis Requested** Address: Due Date Requested: Preservation Codes: 3136 South Winton Road Suite 303 A - HCL M - Hexane TAT Requested (days): City: B - NaOH N - None Rochester C - Zn Acetate O - AsNaO2 State, Zip: D - Nitric Acid P - Na2O4S NY, 14623 E - NaHSO4 Q - Na2SO3 F - MaOH R - Na2S2O3 PO#: Phone: G - Amchlor S - H2SO4 805-501-8053(Tel) 510875 H - Ascorbic Acid T - TSP Dodecahydrale WO#: f - Ice U - Acetone bailey.kudlawilliams@tetratech.com Perform MS/MSD (Yes or No) 8270D_SIM_MS_ID - 1,4-Dioxane J - DI Water V - MCAA K-EDTA W-pH4-5 Project#; Z - other (specify) L-EDA GE Pompey, NY Investigation 48023743 8260C - TCL list OLM04.2 SSOW#: Other: Total Number Matrix Sample (V#=water, Type 8=soki. (C=comp, Sample O=wastefolt. Sample Identification Sample Date Time G=grab) BT=Tissue, A=Alt Special Instructions/Note: Preservation Code: Water Water χ Water χ Water Water Water Water Water Water Water Water Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Possible Hazard Identification Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological Return To Client Archive For Disposal By Lab Months Deliverable Requested: I, II, III, IV, Other (specify) Special Instructions/QC Requirements: Empty Kit Relinquished by: 15:07 Method of Shipment: Relinquished by: Date/Time: Received by Relinquished by: Received by: Date/Time: Company Relinquished by: Date/Time: Company Received by: Date/Time: Company Custody Seals Intact: Custody Seal No.: Cooler Temperature(s) °C and Other Remarks: Δ Yes Δ No

10 Hazelwood Drive Amherst, NY 14228-2298

Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

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Client Information	Sampler:	1141 422 1	`	Lat	b PM; scho	r Bris	an I					C	inter Tra	icking No	(s):			COC No: 480-169454-3697;	2.2	
Client Contact:	Bailey Kuc Phone:	Mer TO THE	iams		Mail:	ther, Brian J						St	ate of O	rigin:				480-105454-3097. Page:		
Ms. Bailey Kudla-Williams	805 -	501-8	053	Br	rian.F	Fischer@Eurofinset.com												Page .3 of 5	0f1	
Company: Tetra Tech GEO			PWSID:							Anal	ysis F	Seau	estec					Job#:		
Address: 3136 South Winton Road Suite 303	Due Date Requeste	ed:	1		\top			T	T		, <u></u>	Ť					7	Preservation Codes	s:	
City:	TAT Requested (da	ıys):		 	┪														M - Hexane N - None	,
Rochester State, Zip:	Stra	ndard														1 [- 1	C - Zn Acetate	O - AsNaO2	
NY, 14623		ce Project: A Yes A No						l	- 1								1	E - NaHSO4	P - Na2O4S Q - Na2SO3	
Phone: 805-501-8053(Tel)	PO#: 510875																R - Na2S2O3 S - H2SO4			
Email:	WO#:		–[ૄ			- 1											T - TSP Dodecah U - Acetone	iydratê		
balley.kudlawilliams@tetratech.com					٥٥	2	cane			ł							ø	J - DI Water	V-MCAA W-pH 4-5	
Project Name: GE Pompey, NY Investigation	Project #: 48023743				ڇًا	Ö	Ŝ	2											Z - other (specify))
Site:	SSOW#:			Matrix (Wester, Secolal, Orwasterol, ST-11ssue, A-1		Σ Ω	8270D_SIM_MS_ID - 1,4-Dioxane	- TCL list OLM04.2										Other:		
				Rantoi	⊣ %	I S	MS_	IIst									oer of			-
			Sample Type	(Wewater,	Iter		SIM	뒫									Total Number	i		
•		Sample	(C=comp,	S=solis, O=was(e/oi),	. IR	Įξ	6	8260C			1					1	ta N	1		
Sample Identification	Sample Date	Time	G=grab)	87=Tissue, A=#	Atr)					 -	[4				븬	Special Inst	tructions/Not	te:
				tion Code:		Y		A		-	-		-	-		-	X			
Influent	3-10-22	1813	G	Water	_		X	ᆚ									5			
Post Column 1		1825	6	Water	_		X	×									5			
Post Column 2		1850	6	Water			×	X									5			
Effluent	/	1900	6	Water			χ	У									5			
Trip Blank				Water				χ		╛.							١			
				Water																
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200				Water									7							
Bhu				Water																
				Water																
				Water														[•	
Possible Hazard Identification		·				Sag	nple	Disp	osal (A fee	may	befass	essec	if sam	ples ar	e reta	aine	ed longer than 1 n	nonth)	
Non-Hazard Flammable Skin Imitant Pois	on B Unkr	own 🗀	Radiologica	1		L	Re	eturn	To Cli	ent	L	X Dis	posal .	By Lab	l.	A	rchi	ive For	Months	
Deliverable Requested: I, II, III, IV, Other (specify)						Spe	cial I	nstru	ctions	/QC F	Require	ments	:							
Empty Kit Relinquished by:		Date:			Ti	ime:	÷				-,		Met	tod of St	ipment	***		ı		
Relinguished by: Exclus Ville Millery	Date/Time: ロ3/11/ン	2. <i>09</i> .	115	Company			1.5	ved by		${\cal N}$	/)٢	$\overline{\ \ }$		()	ate/Time:	//	-	3112	Company	21
Relinquished by:	Date/Time:			Company			Recei	ved by	:	1	7				ate/Time				Company	
Relinquished by:	Date/Time:			Company			Recei	ved by	:	•				0	ate/Time:				Company	•
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10 Hazelwood Drive Amherst, NY 14228-2298 Phone: 716-691-2600 Fax: 716-691-7991

Chain of Custody Record

eurofins Environment Testing America

Client Information	Sampler: Bailey H	hudlæ-l	villiam	Lab P S Fisci		3rian .	J				C	amer Trad	king No	(s):		COC No: 480-169454-369	72.4	
Client Contact: Ms. Bailey Kudla-Williams		01-805		ic-wa	il:	State of Origin cher@Eurofinset.com										Page: Pag e 4 of 5	, (1)	_
Company: Tetra Tech GEO	1 80/3 2	21 900	PWSID:			on che	<u> </u>		Analy	veie E		nefod				Job#:	1941	\neg
Address: 3136 South Winton Road Suite 303	Due Date Reques	ted:	<u> </u>				T	Π	Anany	1313	vedu	ested			Т	Preservation Cod	es:	
City:	TAT Requested (days):										,		1		A - HCL B - NaOH	M - Hexane N - None	
Rochester State, Zip:		anda														C - Zn Acetate D - Nitric Acid	O - AsNaO2 P - Na2O4S	
NY, 14623 Phone:	Compliance Proje	ect: A Yes	Δ No													E - NaHSQ4 F - MeOH	O - Na2SO3 R - Na2S2O3	j
805-501-8053(Tel) Email:	510875 WO#:				(Q											G - Amchior H - Ascorbic Acid	S - H2SO4 T - TSP Dodecahydrate	9
bailey.kudlawilliams@tetratech.com						Or NO									_E	I - Ice J - Di Water	U - Acetone V - MCAA	
Project Name: GE Pompey, NY Investigation , `	Project #: 48023743				a),	1,4-Dioxane	2								containe	K - EDTA L - EDA	W - pH 4-5 Z - other (specify)	
Site:	SSOW#:														of con			
Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (Wawster, Basolid, Ozwastetoli, OT-Yissue, ArAir)	Field Filtered Sam	PETTOTIL MOTINGE 8270D_SIM_MS_ID	8260C - TCL list						:		Total Number of		structions/Note:	
1		$\geq \leq$	Preservat	ion Code:	\bowtie	ζ _N	Α								×			_
Influent	3-24-22		G	Water	Ш	_ X	<u>. X</u>								\ <u>\{\bar{\bar{\bar{\bar{\bar{\bar{\ba</u>	7		
Post Column 1		1005	6	Water	Ш	\	(X								Ę	í l		
Post Column 2		1612	6	Water	Ш	×	X								5			
Effluent	V	1630	6	Water		X	X								5			
Trip Blank			<i>-</i>	Water	П		X								1			
				Water														
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BKW				Water	П													
				Water	П												·	
		/		Water	П													
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Possible Hazard Identification				· · · · · · · · · · · · · · · · · · ·	s	$\overline{}$				may L	e ass	essed	if sam _i		_	ned longer than 1	month)	
Non-Hazard Flammable Skin Imitant Pois Deliverable Requested: I, II, III, IV, Other (specify)	on B Unk	nown 🗀 i	Radiological		s			n To Ci	ient s/QC R	equire	^{AJ} Dis	posal B	y Lab		Arc	hive For	Months	_
Empty Kit Relinquished by:		Date:			Time								nd of Shi	omeo!				_
Relinquished by:	Date/Time:	<u> </u>	(Company	1 11110		eived	vi) .		,	····	III.CUIX		ite/Time:		10:-	Company	
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	Date/Time:		.	Company		Red	eived t	by:					Di	ate/Time;			Company	
Custody Seals Intact: Custody Seal No.: Δ Yes Δ No		*	· · · · · · · · · · · · · · · · · · ·			Cod	der Ter	mperatur	e(s) °C a	nd Othe	er Rema	rks:					<u>-I.,</u>	ᅦ
																·	Ver. 06/08/2021	

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10 Hazelwood Drive Amherst, NY 14228-2298

Chain of Custody Record

de eurofins

Environment Testing America

Phone: 716-691-2600 Fax: 716-691-7991														America
Client Information Client Contact:	Bailey v	Ludla-i	villiam	Lab Fise	PM: cher, Bi	rian J				yr e	Jeu	se	COC No: 480-169454-369	972 5
Ms. Bailey Kudla-Williams Company:	Bailey W	501-8	053	E-M Bria		her@E	Eurofinse	t.com	Sta	ate of Origin	225	•	Page: Page 5 of 5	1041
Tetra Tech GEO			PWSID:					Analysis	Pogue	-77-4	560)	Job #:	104
Address: 3136 South Winton Road Suite 303	Due Date Requeste	d:						Allalysis	Reque	ested			Preservation Co	des:
City: Rochester	TAT Requested (da	ıys):		_									A - HCL	M - Hexane
State, Zip:	St	andar	9										B - NaOH C - Zn Acetate	N - None O - AsNaO2
NY, 14623 Phone:	Compliance Project	t: A Yes	Δ No										D - Nitric Acid E - NaHSO4	P - Na2O4S Q - Na2SO3
805-501-8053(Tel)	PO #: 510875					ш							F - MeOH G - Amchlor	R - Na2S2O3 S - H2SO4
Email: bailey.kudlawilliams@tetratech.com	WO #:				o o								H - Ascorbic Acid	T - TSP Dodecahydrate U - Acetone
Project Name: GE Pompey, NY Investigation	Project #:				Yes or	ioxan						8 8	J - DI Water K - EDTA	V - MCAA W - pH 4-5
Site:	48023743 SSOW#:					3	OLM04.2					containe	L - EDA	Z - other (specify)
			,		Sam	9	t OLN					of co	Other:	
			Sample	Matrix	mS//	SIM_MS_ID - 1,4-Dioxane	- TCL list					nber		
		Sample	Type (C=comp,	(W=water, S=solid, O=waste/oil,	d Fil	S_OO						Nu		
Sample Identification	Sample Date	Time	G=grab)	BT=Tissue, A=Air	,) E a	7	8260C					Total	Special II	nstructions/Note:
Influent				tion Code:	XX		Α					X		
	3/30/22	1735	6	Water	+	X	X					5		
Post Column 1		1745	6		11	X	\times					E	5	
Post Column 2		1753	6		Ш	X	\prec					5		
Effluent	V	1805	0	1		X	×					5		
Trip Blank	_		_	water			X			11		1		
				VOLCE	+					-				
					+	+			\vdash	-				
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2					++	+-			-	-				
Blue					+	-	-					480-19	6310 Chain of 0	Custody
					11	_							1	
Possible Hazard Identification					Щ							1 2		
Non-Hazard Flammable Skin Irritant Pois	son B Unkn		Radiological	,	Sa	ample	Disposa	al (A fee may	Ae ass	essed if	samples	are retair	ned longer than	1 month)
Deliverable Requested: I, II, III, IV, Other (specify)	SON D CHIKIT	OWII	Radiological		Sr	oecial	eturn To Instructio	Client ons/QC Require	/ VDisp	oosal By	Lab	Arc	hive For	Months
Empty Kit Relinquished by:		Date:			Time						of Shipment			
Relinquished by	Date/Time:		- (Company	7		ived by:			Metriod	Date/Tin			100
Relinquished by	shed by 1910 1910 1910 1910 1910 1910 1910 191						KZ	Ng/i	14		3~	302	z, 1857	Company
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	Date/Time:			Company		Rece	ived by				Date/Tin		,,,,,	Company
Custody Seals Intact: Custody Seal No.: ∆ Yes ∆ No	*					Coole	er Tempera	ture(s) °C and Oth	ner Remai	rks:				
2 . 30 & 110							9.3	TCE						

Amherst, NY 14228-2298

10 Hazelwood Drive

Chain of Custody Record

🔆 eurofins

Environment Testing

Phone: 716-691-2600 Fax: 716-691-7991 Carrier Tracking No(s): Jan Worlf-Sherch Fischer, Brian J 480-172378-37315.1 Client Information E-Mait Client Contact: 646-248-3523 State of Ongin: Page: Ms, Bailey Kudla-Williams Brian.Fischer@Eurofinset.com Page 1 of 1 Job#: Company: **Analysis Requested** Tetra Tech GEO Address: Due Date Requested: Preservation Codes: 4-D. 3136 South Winton Road Suite 303 A-HCL M - Hexane MO G. TAT Requested (days): B - NaOH N - None Rochester O-AsNaO2 C - Zn Acetate MS_TO-1 O - Nitric Acid P+Na2O4S State, Zio: E - NaHSO4 Q - Na25O3 Compliance Project: A Yes & No 12506 NY, 14623 F - MeOH R-Na25203 PO#: Phone: G - Amchlor S-H2SO4 117.2204205.01 T-TSP Dodecahydrate 262-792-1282(Tel) H - Ascorbic Acid WO#: 1-lce U - Acelone J - DJ Water V-MCAA bailey.kudlawilliams@tetratech.com K - EDTA W-pH4-5 Project Name: Project#: Z-other (specify) L-EDA 48002897 GE Pompey - method 522 SSOW#: Other: New York Matrix Sample (Wewater, ݡ Type S=solid. 8 ا مل Sample (C=comp. G=grab) at-Tissue, AsAle Special Instructions/Note: Sample Date Time Sample Identification Preservation Code: Water 10:01 Water X 11:57 X Water 13:10 3:16 Water Water Water Water Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Possible Hazard Identification Non-Hazard Flammable Skin Irritant Poison B Unknown Radiological Archive For Disposal By Lab Return To Client Months Deliverable Requested: I, II, III, IV, Other (specify) Special Instructions/QC Requirements: Method of Shipment: Time: Empty Kit Relinquished by: Relinguished by: Date/Time: Company Date/Time: Company Company Relinquished by: Company Received by: Date/Time: Company Date/Time. Relinquished by Cooler Temperature(s) °C and Other Remarks: Custody Seals Intact: Custody Seal No.: Δ Yes Δ No Ver: 06/08/2021

APPENDIX C (COMPLETE LABORATORY ANALYTICAL RESULTS)

FEBRUARY 8, 2022 COMLPLETE ANALYTICAL RESULTS

No Analytical Results Presented

FEBRUARY 16, 2022 COMLPLETE ANALYTICAL RESULTS

ANALYTICAL REPORT

Eurofins Buffalo 10 Hazelwood Drive Amherst, NY 14228-2298 Tel: (716)691-2600

Laboratory Job ID: 480-195073-1

Client Project/Site: GE Pompey, NY Investigation

For:

Tetra Tech GEO 3136 South Winton Road Suite 303 Rochester, New York 14623

Attn: Ms. Bailey Kudla-Williams

The

Authorized for release by: 2/24/2022 2:55:06 PM

Rebecca Jones, Project Management Assistant I Rebecca.Jones@Eurofinset.com

Designee for

Brian Fischer, Manager of Project Management (716)504-9835

Brian.Fischer@Eurofinset.com

LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Tetra Tech GEO Job ID: 480-195073-1

Project/Site: GE Pompey, NY Investigation

Qualifiers

GC/MS VOA

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

E Result exceeded calibration range.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present
POI Practical Quantitati

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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Case Narrative

Client: Tetra Tech GEO

Job ID: 480-195073-1 Project/Site: GE Pompey, NY Investigation

Job ID: 480-195073-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative 480-195073-1

Comments

No additional comments.

Receipt

The samples were received on 2/17/2022 8:30 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.6° C.

GC/MS VOA

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: INFLUENT (480-195073-1). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-615343 recovered above the upper control limit for Carbon tetrachloride and Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: INFLUENT (480-195073-1), POST COLUMN 1 (480-195073-2), POST COLUMN 2 (480-195073-3), EFFLUENT (480-195073-4) and TRIP BLANK (480-195073-5).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270D SIM ID: The 1,4-Dioxane result reported for sample INFLUENT (480-195073-1) have an E flag qualifier indicating the results are over the calibration range on the raw data. The actual amounts are within the calibration range; however, the E flag is generated based upon the bias corrected concentration. The LIMS system calculates a bias correction based on the recovery of the 1,4-Dioxane-d8 isotope.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Tetra Tech GEO Job ID: 480-195073-1

Project/Site: GE Pompey, NY Investigation

Client Sample ID: INFLUENT

Lab Sample ID: 480-195073-1

Analyte	Result Qualifie	r RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	6.5	5.0	4.1	ug/L	5	_	8260C	Total/NA
1,1-Dichloroethane	37	5.0	1.9	ug/L	5		8260C	Total/NA
cis-1,2-Dichloroethene	200	5.0	4.1	ug/L	5		8260C	Total/NA
Trichloroethene	7.7	5.0	2.3	ug/L	5		8260C	Total/NA
1,4-Dioxane	61 E	0.20	0.10	ug/L	1		8270D SIM ID	Total/NA

Client Sample ID: POST COLUMN 1

Lab Sample ID: 480-195073-2

No Detections.

Client Sample ID: POST COLUMN 2

Lab Sample ID: 480-195073-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	4.1	J	10	1.3	ug/L	1		8260C	Total/NA

Client Sample ID: EFFLUENT

Lab Sample ID: 480-195073-4

No Detections.

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-195073-5

No Detections.

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Client: Tetra Tech GEO Job ID: 480-195073-1

Project/Site: GE Pompey, NY Investigation

Client Sample ID: INFLUENT

Date Received: 02/17/22 08:30

Lab Sample ID: 480-195073-1 Date Collected: 02/16/22 14:30

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,1,1-Trichloroethane	6.5		5.0	4.1	ug/L			02/18/22 12:50	
1,1,2,2-Tetrachloroethane	ND		5.0	1.1	ug/L			02/18/22 12:50	
1,1,2-Trichloroethane	ND		5.0	1.2	ug/L			02/18/22 12:50	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		5.0	1.6	ug/L			02/18/22 12:50	
1,1-Dichloroethane	37		5.0	1.9	ug/L			02/18/22 12:50	
1,1-Dichloroethene	ND		5.0	1.5	ug/L			02/18/22 12:50	
1,2,4-Trichlorobenzene	ND		5.0	2.1	ug/L			02/18/22 12:50	
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/L			02/18/22 12:50	
1,2-Dichlorobenzene	ND		5.0	4.0	ug/L			02/18/22 12:50	
1,2-Dichloroethane	ND		5.0		ug/L			02/18/22 12:50	
1,2-Dichloropropane	ND		5.0		ug/L			02/18/22 12:50	
1,3-Dichlorobenzene	ND		5.0		ug/L			02/18/22 12:50	
1,4-Dichlorobenzene	ND		5.0		ug/L			02/18/22 12:50	
2-Butanone (MEK)	ND		50		ug/L			02/18/22 12:50	
2-Hexanone	ND		25		ug/L			02/18/22 12:50	
4-Methyl-2-pentanone (MIBK)	ND		25		ug/L			02/18/22 12:50	
Acetone	ND		50		ug/L			02/18/22 12:50	
Benzene	ND		5.0		ug/L			02/18/22 12:50	
Bromodichloromethane	ND		5.0		ug/L			02/18/22 12:50	
Bromoform	ND ND		5.0		ug/L ug/L			02/18/22 12:50	
Bromomethane	ND		5.0		ug/L ug/L			02/18/22 12:50	
Carbon disulfide	ND		5.0		ug/L ug/L			02/18/22 12:50	
Carbon tetrachloride	ND		5.0		ug/L			02/18/22 12:50	
Chlorobenzene	ND		5.0		ug/L			02/18/22 12:50	
Dibromochloromethane	ND		5.0		ug/L			02/18/22 12:50	
Chloroethane	ND		5.0		ug/L			02/18/22 12:50	
Chloroform	ND		5.0		ug/L			02/18/22 12:50	
Chloromethane	ND		5.0		ug/L			02/18/22 12:50	
cis-1,2-Dichloroethene	200		5.0		ug/L			02/18/22 12:50	
cis-1,3-Dichloropropene	ND		5.0		ug/L			02/18/22 12:50	
Cyclohexane	ND		5.0	0.90				02/18/22 12:50	
Dichlorodifluoromethane	ND		5.0		ug/L			02/18/22 12:50	
Ethylbenzene	ND		5.0		ug/L			02/18/22 12:50	
1,2-Dibromoethane	ND		5.0	3.7	ug/L			02/18/22 12:50	
Isopropylbenzene	ND		5.0	4.0	ug/L			02/18/22 12:50	
Methyl acetate	ND		13	6.5	ug/L			02/18/22 12:50	
Methyl tert-butyl ether	ND		5.0	0.80	ug/L			02/18/22 12:50	
Methylcyclohexane	ND		5.0	0.80	ug/L			02/18/22 12:50	
Methylene Chloride	ND		5.0	2.2	ug/L			02/18/22 12:50	
Styrene	ND		5.0	3.7	ug/L			02/18/22 12:50	
Tetrachloroethene	ND		5.0	1.8	ug/L			02/18/22 12:50	
Toluene	ND		5.0	2.6	ug/L			02/18/22 12:50	
trans-1,2-Dichloroethene	ND		5.0	4.5	ug/L			02/18/22 12:50	
trans-1,3-Dichloropropene	ND		5.0		ug/L			02/18/22 12:50	
Trichloroethene	7.7		5.0		ug/L			02/18/22 12:50	
Trichlorofluoromethane	ND		5.0	4.4	ug/L			02/18/22 12:50	
Vinyl chloride	ND		5.0		ug/L			02/18/22 12:50	
Xylenes, Total	ND		10		ug/L			02/18/22 12:50	

Client: Tetra Tech GEO Job ID: 480-195073-1

Project/Site: GE Pompey, NY Investigation

Client Sample ID: INFLUENT

Lab Sample ID: 480-195073-1

Date Collected: 02/16/22 14:30 Matrix: Water Date Received: 02/17/22 08:30

Surrogate	%Recovery Qualifier	Limits	Prepared Analyzed	Dil Fac
Toluene-d8 (Surr)	99	80 - 120	02/18/22 12:5	50 5
1,2-Dichloroethane-d4 (Surr)	96	77 - 120	02/18/22 12:5	50 5
4-Bromofluorobenzene (Surr)	114	73 - 120	02/18/22 12:5	50 5
Dibromofluoromethane (Surr)	102	75 - 123	02/18/22 12:5	50 5

Method: 8270D SIM ID - Semivol	atile Organic C	ompounds	(GC/MS SIM / Is	sotope D	ilution)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	61	E	0.20	0.10	ug/L		02/18/22 15:08	02/21/22 21:22	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	21		<u> 15 - 110</u>				02/18/22 15:08	02/21/22 21:22	

Client Sample ID: POST COLUMN 1

Lab Sample ID: 480-195073-2 Date Collected: 02/16/22 14:50 Matrix: Water

Date Received: 02/17/22 08:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			02/18/22 13:34	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/18/22 13:34	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/18/22 13:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/18/22 13:34	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/18/22 13:34	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/18/22 13:34	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/18/22 13:34	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/18/22 13:34	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/18/22 13:34	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/18/22 13:34	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/18/22 13:34	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/18/22 13:34	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/18/22 13:34	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/18/22 13:34	1
2-Hexanone	ND		5.0	1.2	ug/L			02/18/22 13:34	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/18/22 13:34	1
Acetone	ND		10	3.0	ug/L			02/18/22 13:34	1
Benzene	ND		1.0	0.41	ug/L			02/18/22 13:34	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/18/22 13:34	1
Bromoform	ND		1.0	0.26	ug/L			02/18/22 13:34	1
Bromomethane	ND		1.0	0.69	ug/L			02/18/22 13:34	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/18/22 13:34	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/18/22 13:34	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/18/22 13:34	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/18/22 13:34	1
Chloroethane	ND		1.0	0.32	ug/L			02/18/22 13:34	1
Chloroform	ND		1.0	0.34	ug/L			02/18/22 13:34	1
Chloromethane	ND		1.0	0.35	ug/L			02/18/22 13:34	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/18/22 13:34	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/18/22 13:34	1
Cyclohexane	ND		1.0	0.18	ug/L			02/18/22 13:34	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/18/22 13:34	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/18/22 13:34	1

Client: Tetra Tech GEO Job ID: 480-195073-1

Project/Site: GE Pompey, NY Investigation

Client Sample ID: POST COLUMN 1

Lab Sample ID: 480-195073-2 Date Collected: 02/16/22 14:50 Matrix: Water

Date Received: 02/17/22 08:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	MD		1.0	0.73	ug/L			02/18/22 13:34	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/18/22 13:34	1
Methyl acetate	ND		2.5	1.3	ug/L			02/18/22 13:34	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/18/22 13:34	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/18/22 13:34	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/18/22 13:34	1
Styrene	ND		1.0	0.73	ug/L			02/18/22 13:34	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/18/22 13:34	1
Toluene	ND		1.0	0.51	ug/L			02/18/22 13:34	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/18/22 13:34	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/18/22 13:34	1
Trichloroethene	ND		1.0	0.46	ug/L			02/18/22 13:34	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/18/22 13:34	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/18/22 13:34	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/18/22 13:34	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		80 - 120			-		02/18/22 13:34	1
1,2-Dichloroethane-d4 (Surr)	98		77 - 120					02/18/22 13:34	1
4-Bromofluorobenzene (Surr)	110		73 - 120					02/18/22 13:34	1
Dibromofluoromethane (Surr)	105		75 - 123					02/18/22 13:34	1

Method: 8270D SIM ID - Semivol	atile Organic C	ompounds	(GC/MS SIM /	lsotope D	ilution)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		02/18/22 15:08	02/21/22 21:44	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	23		15 - 110				02/18/22 15:08	02/21/22 21:44	1

Client Sample ID: POST COLUMN 2 Lab Sample ID: 480-195073-3

Date Collected: 02/16/22 15:20 Matrix: Water Date Received: 02/17/22 08:30

Analyte	Result Qual	lifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	1.0	0.82	ug/L			02/18/22 13:12	1
1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/L			02/18/22 13:12	1
1,1,2-Trichloroethane	ND	1.0	0.23	ug/L			02/18/22 13:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	0.31	ug/L			02/18/22 13:12	1
1,1-Dichloroethane	ND	1.0	0.38	ug/L			02/18/22 13:12	1
1,1-Dichloroethene	ND	1.0	0.29	ug/L			02/18/22 13:12	1
1,2,4-Trichlorobenzene	ND	1.0	0.41	ug/L			02/18/22 13:12	1
1,2-Dibromo-3-Chloropropane	ND	1.0	0.39	ug/L			02/18/22 13:12	1
1,2-Dichlorobenzene	ND	1.0	0.79	ug/L			02/18/22 13:12	1
1,2-Dichloroethane	ND	1.0	0.21	ug/L			02/18/22 13:12	1
1,2-Dichloropropane	ND	1.0	0.72	ug/L			02/18/22 13:12	1
1,3-Dichlorobenzene	ND	1.0	0.78	ug/L			02/18/22 13:12	1
1,4-Dichlorobenzene	ND	1.0	0.84	ug/L			02/18/22 13:12	1
2-Butanone (MEK)	4.1 J	10	1.3	ug/L			02/18/22 13:12	1
2-Hexanone	ND	5.0	1.2	ug/L			02/18/22 13:12	1
4-Methyl-2-pentanone (MIBK)	ND	5.0	2.1	ug/L			02/18/22 13:12	1

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Client: Tetra Tech GEO Job ID: 480-195073-1

Project/Site: GE Pompey, NY Investigation

Client Sample ID: POST COLUMN 2

Lab Sample ID: 480-195073-3 Date Collected: 02/16/22 15:20

Matrix: Water

Date Received: 02/17/22 08:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Acetone	ND		10	3.0	ug/L			02/18/22 13:12	
Benzene	ND		1.0	0.41	ug/L			02/18/22 13:12	
Bromodichloromethane	ND		1.0	0.39	ug/L			02/18/22 13:12	
Bromoform	ND		1.0	0.26	ug/L			02/18/22 13:12	
Bromomethane	ND		1.0	0.69	ug/L			02/18/22 13:12	
Carbon disulfide	ND		1.0	0.19	ug/L			02/18/22 13:12	
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/18/22 13:12	
Chlorobenzene	ND		1.0	0.75	ug/L			02/18/22 13:12	
Dibromochloromethane	ND		1.0	0.32	ug/L			02/18/22 13:12	
Chloroethane	ND		1.0	0.32	ug/L			02/18/22 13:12	
Chloroform	ND		1.0	0.34	ug/L			02/18/22 13:12	
Chloromethane	ND		1.0	0.35	ug/L			02/18/22 13:12	
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/18/22 13:12	
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/18/22 13:12	
Cyclohexane	ND		1.0	0.18	ug/L			02/18/22 13:12	
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/18/22 13:12	
Ethylbenzene	ND		1.0	0.74	ug/L			02/18/22 13:12	
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/18/22 13:12	
Isopropylbenzene	ND		1.0	0.79	ug/L			02/18/22 13:12	
Methyl acetate	ND		2.5	1.3	ug/L			02/18/22 13:12	
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/18/22 13:12	
Methylcyclohexane	ND		1.0	0.16	ug/L			02/18/22 13:12	
Methylene Chloride	ND		1.0	0.44	ug/L			02/18/22 13:12	
Styrene	ND		1.0	0.73	ug/L			02/18/22 13:12	
Tetrachloroethene	ND		1.0	0.36	ug/L			02/18/22 13:12	
Toluene	ND		1.0	0.51	ug/L			02/18/22 13:12	
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/18/22 13:12	
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/18/22 13:12	
Trichloroethene	ND		1.0	0.46	ug/L			02/18/22 13:12	
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/18/22 13:12	
Vinyl chloride	ND		1.0	0.90	ug/L			02/18/22 13:12	
Xylenes, Total	ND		2.0	0.66	ug/L			02/18/22 13:12	
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
Toluene-d8 (Surr)	96		80 - 120			_		02/18/22 13:12	
1,2-Dichloroethane-d4 (Surr)	97		77 - 120					02/18/22 13:12	
4-Bromofluorobenzene (Surr)	115		73 - 120					02/18/22 13:12	
Dibromofluoromethane (Surr)	100		75 - 123					02/18/22 13:12	

Method: 8270D SIM ID - Sen	nivolatile Organic C	ompounds	(GC/MS SIM / I	sotope D	ilution)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		02/18/22 15:08	02/21/22 22:05	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	27		15 - 110				02/18/22 15:08	02/21/22 22:05	1

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Client: Tetra Tech GEO Job ID: 480-195073-1

Project/Site: GE Pompey, NY Investigation

Client Sample ID: EFFLUENT

Date Received: 02/17/22 08:30

Lab Sample ID: 480-195073-4 Date Collected: 02/16/22 16:40

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			02/18/22 13:56	
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/18/22 13:56	
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/18/22 13:56	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/18/22 13:56	
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/18/22 13:56	
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/18/22 13:56	
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/18/22 13:56	
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/18/22 13:56	
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/18/22 13:56	
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/18/22 13:56	
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/18/22 13:56	
1,3-Dichlorobenzene	ND		1.0		ug/L			02/18/22 13:56	
1,4-Dichlorobenzene	ND		1.0		ug/L			02/18/22 13:56	
2-Butanone (MEK)	ND		10		ug/L			02/18/22 13:56	
2-Hexanone	ND		5.0		ug/L			02/18/22 13:56	
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			02/18/22 13:56	
Acetone	ND		10		ug/L			02/18/22 13:56	
Benzene	ND		1.0		ug/L			02/18/22 13:56	
Bromodichloromethane	ND		1.0		ug/L			02/18/22 13:56	
Bromoform	ND		1.0		ug/L			02/18/22 13:56	
Bromomethane	ND		1.0		ug/L			02/18/22 13:56	
Carbon disulfide	ND		1.0		ug/L			02/18/22 13:56	
Carbon tetrachloride	ND		1.0		ug/L			02/18/22 13:56	
Chlorobenzene	ND		1.0		ug/L			02/18/22 13:56	
Dibromochloromethane	ND		1.0		ug/L			02/18/22 13:56	
Chloroethane	ND		1.0		ug/L			02/18/22 13:56	
Chloroform	ND		1.0		ug/L			02/18/22 13:56	
Chloromethane	ND		1.0		ug/L			02/18/22 13:56	
cis-1,2-Dichloroethene	ND		1.0		ug/L			02/18/22 13:56	
cis-1,3-Dichloropropene	ND		1.0		ug/L			02/18/22 13:56	
Cyclohexane	ND		1.0		ug/L			02/18/22 13:56	
Dichlorodifluoromethane	ND		1.0		ug/L			02/18/22 13:56	
Ethylbenzene	ND		1.0		ug/L			02/18/22 13:56	
1,2-Dibromoethane	ND		1.0		ug/L			02/18/22 13:56	
Isopropylbenzene	ND		1.0		ug/L			02/18/22 13:56	
Methyl acetate	ND		2.5		ug/L			02/18/22 13:56	
Methyl tert-butyl ether	ND		1.0		ug/L			02/18/22 13:56	
Methylcyclohexane	ND		1.0		ug/L			02/18/22 13:56	
Methylene Chloride	ND		1.0		ug/L			02/18/22 13:56	
Styrene	ND		1.0		ug/L			02/18/22 13:56	
Tetrachloroethene	ND		1.0		ug/L			02/18/22 13:56	
Toluene	ND		1.0		ug/L			02/18/22 13:56	
trans-1,2-Dichloroethene	ND		1.0		ug/L			02/18/22 13:56	
trans-1,3-Dichloropropene	ND		1.0		ug/L			02/18/22 13:56	
Trichloroethene	ND		1.0		ug/L			02/18/22 13:56	
Trichlorofluoromethane	ND		1.0		ug/L			02/18/22 13:56	
Vinyl chloride	ND		1.0		ug/L			02/18/22 13:56	
Xylenes, Total	ND		2.0		ug/L			02/18/22 13:56	

Client: Tetra Tech GEO Job ID: 480-195073-1

Project/Site: GE Pompey, NY Investigation

Client Sample ID: EFFLUENT

Date Received: 02/17/22 08:30

Lab Sample ID: 480-195073-4 Date Collected: 02/16/22 16:40

Matrix: Water

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102	80 - 120		02/18/22 13:56	1
1,2-Dichloroethane-d4 (Surr)	99	77 - 120		02/18/22 13:56	1
4-Bromofluorobenzene (Surr)	110	73 - 120		02/18/22 13:56	1
Dibromofluoromethane (Surr)	106	75 - 123		02/18/22 13:56	1

N	lethod: 8270D SIM ID - Semivolati	le Organic C	ompounds (GC/MS SIM /	Isotope D	ilution)				
Α	nalyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,	4-Dioxane	ND		0.20	0.10	ug/L		02/18/22 15:08	02/21/22 22:26	1
Is	otope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,	4-Dioxane-d8	25		15 - 110				02/18/22 15:08	02/21/22 22:26	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-195073-5 Date Collected: 02/16/22 00:00 Matrix: Water

Date Received: 02/17/22 08:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			02/18/22 14:18	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/18/22 14:18	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/18/22 14:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/18/22 14:18	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/18/22 14:18	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/18/22 14:18	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/18/22 14:18	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/18/22 14:18	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/18/22 14:18	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/18/22 14:18	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/18/22 14:18	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/18/22 14:18	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/18/22 14:18	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/18/22 14:18	1
2-Hexanone	ND		5.0	1.2	ug/L			02/18/22 14:18	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/18/22 14:18	1
Acetone	ND		10	3.0	ug/L			02/18/22 14:18	1
Benzene	ND		1.0	0.41	ug/L			02/18/22 14:18	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/18/22 14:18	1
Bromoform	ND		1.0	0.26	ug/L			02/18/22 14:18	1
Bromomethane	ND		1.0	0.69	ug/L			02/18/22 14:18	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/18/22 14:18	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/18/22 14:18	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/18/22 14:18	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/18/22 14:18	1
Chloroethane	ND		1.0	0.32	ug/L			02/18/22 14:18	1
Chloroform	ND		1.0	0.34	ug/L			02/18/22 14:18	1
Chloromethane	ND		1.0	0.35	ug/L			02/18/22 14:18	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/18/22 14:18	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/18/22 14:18	1
Cyclohexane	ND		1.0	0.18	ug/L			02/18/22 14:18	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/18/22 14:18	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/18/22 14:18	1

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Client: Tetra Tech GEO Job ID: 480-195073-1

Project/Site: GE Pompey, NY Investigation

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-195073-5

Matrix: Water

Date C	ollected:	02/16/22	00:00
Date R	eceived:	02/17/22	08:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	MD		1.0	0.73	ug/L			02/18/22 14:18	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/18/22 14:18	1
Methyl acetate	ND		2.5	1.3	ug/L			02/18/22 14:18	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/18/22 14:18	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/18/22 14:18	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/18/22 14:18	1
Styrene	ND		1.0	0.73	ug/L			02/18/22 14:18	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/18/22 14:18	1
Toluene	ND		1.0	0.51	ug/L			02/18/22 14:18	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/18/22 14:18	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/18/22 14:18	1
Trichloroethene	ND		1.0	0.46	ug/L			02/18/22 14:18	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/18/22 14:18	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/18/22 14:18	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/18/22 14:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		80 - 120			-		02/18/22 14:18	1
1,2-Dichloroethane-d4 (Surr)	101		77 - 120					02/18/22 14:18	1
4-Bromofluorobenzene (Surr)	111		73 - 120					02/18/22 14:18	1
Dibromofluoromethane (Surr)	106		75 - 123					02/18/22 14:18	1

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Surrogate Summary

Client: Tetra Tech GEO Job ID: 480-195073-1

Project/Site: GE Pompey, NY Investigation

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water Prep Type: Total/NA

				Percent Sur	rogate Reco
		TOL	DCA	BFB	DBFM
Lab Sample ID	Client Sample ID	(80-120)	(77-120)	(73-120)	(75-123)
480-195073-1	INFLUENT	99	96	114	102
480-195073-2	POST COLUMN 1	101	98	110	105
480-195073-3	POST COLUMN 2	96	97	115	100
480-195073-4	EFFLUENT	102	99	110	106
480-195073-5	TRIP BLANK	101	101	111	106
LCS 480-615343/5	Lab Control Sample	99	96	109	102
MB 480-615343/7	Method Blank	97	96	113	102

Surrogate Legend

TOL = Toluene-d8 (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

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Isotope Dilution Summary

Client: Tetra Tech GEO Job ID: 480-195073-1

Project/Site: GE Pompey, NY Investigation

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water Prep Type: Total/NA

			Percent Isotope Dilution Recovery (Acceptance Limits)
		DXE	
Lab Sample ID	Client Sample ID	(15-110)	
480-195073-1	INFLUENT	21	
480-195073-2	POST COLUMN 1	23	
480-195073-3	POST COLUMN 2	27	
480-195073-4	EFFLUENT	25	
LCS 480-615430/2-A	Lab Control Sample	28	
MB 480-615430/1-A	Method Blank	29	
Surrogate Legend			

QC Sample Results

Client: Tetra Tech GEO Job ID: 480-195073-1

Project/Site: GE Pompey, NY Investigation

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-615343/7

Matrix: Water

Client Sample ID: Method Blank
Prep Type: Total/NA

Analysis Batch: 615343	МВ	МВ							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L		· ·	02/18/22 11:31	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/18/22 11:31	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/18/22 11:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/18/22 11:31	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/18/22 11:31	1
1,1-Dichloroethene	ND		1.0	0.29				02/18/22 11:31	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			02/18/22 11:31	1
1,2-Dibromo-3-Chloropropane	ND		1.0		ug/L			02/18/22 11:31	1
1,2-Dichlorobenzene	ND		1.0		ug/L			02/18/22 11:31	1
1,2-Dichloroethane	ND		1.0		ug/L			02/18/22 11:31	1
1,2-Dichloropropane	ND		1.0	0.72	-			02/18/22 11:31	1
1,3-Dichlorobenzene	ND		1.0	0.78				02/18/22 11:31	1
1,4-Dichlorobenzene	ND		1.0		ug/L			02/18/22 11:31	1
2-Butanone (MEK)	ND		10		ug/L			02/18/22 11:31	1
2-Hexanone	ND		5.0		ug/L			02/18/22 11:31	1
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			02/18/22 11:31	
Acetone (Wilst)	ND		10		ug/L			02/18/22 11:31	1
Benzene	ND		1.0		ug/L			02/18/22 11:31	1
Bromodichloromethane	ND		1.0		ug/L			02/18/22 11:31	· · · · · · · · · · · · · · · · · · ·
Bromoform	ND		1.0		ug/L			02/18/22 11:31	1
Bromomethane	ND ND		1.0		-			02/18/22 11:31	1
					ug/L				
Carbon disulfide	ND		1.0		ug/L			02/18/22 11:31	1
Carbon tetrachloride	ND		1.0		ug/L			02/18/22 11:31	1
Chlorobenzene	ND		1.0		ug/L			02/18/22 11:31	1
Dibromochloromethane	ND		1.0	0.32	-			02/18/22 11:31	1
Chloroethane	ND		1.0	0.32	-			02/18/22 11:31	1
Chloroform	ND		1.0		ug/L			02/18/22 11:31	1
Chloromethane	ND		1.0		ug/L			02/18/22 11:31	1
cis-1,2-Dichloroethene	ND		1.0		ug/L			02/18/22 11:31	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			02/18/22 11:31	1
Cyclohexane	ND		1.0		ug/L			02/18/22 11:31	1
Dichlorodifluoromethane	ND		1.0		ug/L			02/18/22 11:31	1
Ethylbenzene	ND		1.0		ug/L			02/18/22 11:31	1
1,2-Dibromoethane	ND		1.0		ug/L			02/18/22 11:31	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/18/22 11:31	1
Methyl acetate	ND		2.5		ug/L			02/18/22 11:31	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/18/22 11:31	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/18/22 11:31	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/18/22 11:31	1
Styrene	ND		1.0	0.73	ug/L			02/18/22 11:31	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/18/22 11:31	1
Toluene	ND		1.0	0.51	ug/L			02/18/22 11:31	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/18/22 11:31	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/18/22 11:31	1
Trichloroethene	ND		1.0	0.46	ug/L			02/18/22 11:31	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/18/22 11:31	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/18/22 11:31	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/18/22 11:31	1

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QC Sample Results

Client: Tetra Tech GEO Job ID: 480-195073-1

Project/Site: GE Pompey, NY Investigation

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-615343/7

Matrix: Water

Analysis Batch: 615343

Client Sample ID: Method Blank Prep Type: Total/NA

MB MB Surrogate %Recovery Qualifier Limits Prepared Analyzed Dil Fac Toluene-d8 (Surr) 97 80 - 120 02/18/22 11:31 1,2-Dichloroethane-d4 (Surr) 96 77 - 120 02/18/22 11:31 4-Bromofluorobenzene (Surr) 113 73 - 120 02/18/22 11:31 Dibromofluoromethane (Surr) 102 75 - 123 02/18/22 11:31

Client Sample ID: Lab Control Sample Lab Sample ID: LCS 480-615343/5

Matrix: Water

Analysis Batch: 615343

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1,1-Trichloroethane	25.0	27.3		ug/L		109	73 - 126	
1,1,2,2-Tetrachloroethane	25.0	24.5		ug/L		98	76 _ 120	
1,1,2-Trichloroethane	25.0	25.9		ug/L		103	76 - 122	
1,1,2-Trichloro-1,2,2-trifluoroetha	25.0	27.5		ug/L		110	61 - 148	
ne								
1,1-Dichloroethane	25.0	25.1		ug/L		101	77 - 120	
1,1-Dichloroethene	25.0	27.4		ug/L		110	66 - 127	
1,2,4-Trichlorobenzene	25.0	24.7		ug/L		99	79 - 122	
1,2-Dibromo-3-Chloropropane	25.0	22.0		ug/L		88	56 - 134	
1,2-Dichlorobenzene	25.0	25.6		ug/L		102	80 - 124	
1,2-Dichloroethane	25.0	24.0		ug/L		96	75 - 120	
1,2-Dichloropropane	25.0	26.7		ug/L		107	76 - 120	
1,3-Dichlorobenzene	25.0	26.1		ug/L		104	77 - 120	
1,4-Dichlorobenzene	25.0	25.5		ug/L		102	80 - 120	
2-Butanone (MEK)	125	116		ug/L		92	57 - 140	
2-Hexanone	125	133		ug/L		107	65 - 127	
4-Methyl-2-pentanone (MIBK)	125	112		ug/L		89	71 - 125	
Acetone	125	131		ug/L		104	56 - 142	
Benzene	25.0	26.2		ug/L		105	71 - 124	
Bromodichloromethane	25.0	27.7		ug/L		111	80 - 122	
Bromoform	25.0	29.3		ug/L		117	61 - 132	
Bromomethane	25.0	30.4		ug/L		122	55 - 144	
Carbon disulfide	25.0	27.3		ug/L		109	59 - 134	
Carbon tetrachloride	25.0	30.2		ug/L		121	72 - 134	
Chlorobenzene	25.0	26.5		ug/L		106	80 - 120	
Dibromochloromethane	25.0	28.5		ug/L		114	75 - 125	
Chloroethane	25.0	25.1		ug/L		101	69 - 136	
Chloroform	25.0	25.1		ug/L		101	73 - 127	
Chloromethane	25.0	23.6		ug/L		94	68 - 124	
cis-1,2-Dichloroethene	25.0	26.6		ug/L		106	74 - 124	
cis-1,3-Dichloropropene	25.0	28.3		ug/L		113	74 - 124	
Cyclohexane	25.0	25.7		ug/L		103	59 - 135	
Dichlorodifluoromethane	25.0	27.6		ug/L		110	59 - 135	
Ethylbenzene	25.0	26.3		ug/L		105	77 - 123	
1,2-Dibromoethane	25.0	26.2		ug/L		105	77 _ 120	
Isopropylbenzene	25.0	25.2		ug/L		101	77 _ 122	
Methyl acetate	50.0	41.9		ug/L		84	74 - 133	
Methyl tert-butyl ether	25.0	26.0		ug/L		104	77 - 120	
Methylcyclohexane	25.0	27.0		ug/L		108	68 - 134	

Eurofins Buffalo

2/24/2022

QC Sample Results

Client: Tetra Tech GEO Job ID: 480-195073-1

Project/Site: GE Pompey, NY Investigation

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-615343/5

Matrix: Water

Analysis Batch: 615343

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Methylene Chloride	25.0	27.4		ug/L		110	75 - 124	
Styrene	25.0	27.7		ug/L		111	80 - 120	
Tetrachloroethene	25.0	26.7		ug/L		107	74 - 122	
Toluene	25.0	25.6		ug/L		103	80 - 122	
trans-1,2-Dichloroethene	25.0	26.6		ug/L		106	73 _ 127	
trans-1,3-Dichloropropene	25.0	26.4		ug/L		106	80 - 120	
Trichloroethene	25.0	26.6		ug/L		106	74 - 123	
Trichlorofluoromethane	25.0	28.9		ug/L		116	62 _ 150	
Vinyl chloride	25.0	27.9		ug/L		112	65 _ 133	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
Toluene-d8 (Surr)	99		80 - 120
1,2-Dichloroethane-d4 (Surr)	96		77 - 120
4-Bromofluorobenzene (Surr)	109		73 - 120
Dibromofluoromethane (Surr)	102		75 - 123

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: MB 480-615430/1-A

Matrix: Water

Analysis Batch: 615542

Client Sample ID: Method Blank Prep Type: Total/NA

Prep Batch: 615430

	MB	MB								
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
1,4-Dioxane	ND		0.20	0.10	ug/L		02/18/22 15:08	02/21/22 17:47	1	
	MB	MB								
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac	
1,4-Dioxane-d8	29		15 - 110				02/18/22 15:08	02/21/22 17:47	1	

Lab Sample ID: LCS 480-615430/2-A

Matrix: Water

Analysis Batch: 615542

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 615430

Spike LCS LCS Analyte Added Result Qualifier Unit D %Rec Limits 1,4-Dioxane 2.00 2.15 ug/L 108 40 - 140

LCS LCS

Isotope Dilution %Recovery Qualifier Limits 1,4-Dioxane-d8 28 15 - 110

QC Association Summary

Client: Tetra Tech GEO Job ID: 480-195073-1

Project/Site: GE Pompey, NY Investigation

GC/MS VOA

Analysis Batch: 615343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-195073-1	INFLUENT	Total/NA	Water	8260C	
480-195073-2	POST COLUMN 1	Total/NA	Water	8260C	
480-195073-3	POST COLUMN 2	Total/NA	Water	8260C	
480-195073-4	EFFLUENT	Total/NA	Water	8260C	
480-195073-5	TRIP BLANK	Total/NA	Water	8260C	
MB 480-615343/7	Method Blank	Total/NA	Water	8260C	
LCS 480-615343/5	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 615430

Lab Sample ID 480-195073-1	Client Sample ID INFLUENT	Prep Type Total/NA	Matrix Water	Method 3510C	Prep Batch
480-195073-2	POST COLUMN 1	Total/NA	Water	3510C	
480-195073-3	POST COLUMN 2	Total/NA	Water	3510C	
480-195073-4	EFFLUENT	Total/NA	Water	3510C	
MB 480-615430/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-615430/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 615542

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-195073-1	INFLUENT	Total/NA	Water	8270D SIM ID	615430
480-195073-2	POST COLUMN 1	Total/NA	Water	8270D SIM ID	615430
480-195073-3	POST COLUMN 2	Total/NA	Water	8270D SIM ID	615430
480-195073-4	EFFLUENT	Total/NA	Water	8270D SIM ID	615430
MB 480-615430/1-A	Method Blank	Total/NA	Water	8270D SIM ID	615430
LCS 480-615430/2-A	Lab Control Sample	Total/NA	Water	8270D SIM ID	615430

Job ID: 480-195073-1

Project/Site: GE Pompey, NY Investigation

Client Sample ID: INFLUENT

Lab Sample ID: 480-195073-1 Date Collected: 02/16/22 14:30

Matrix: Water

Date Received: 02/17/22 08:30

Client: Tetra Tech GEO

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	615343	02/18/22 12:50	AXK	TAL BUF
Total/NA	Prep	3510C			615430	02/18/22 15:08	CMC	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	615542	02/21/22 21:22	RJS	TAL BUF

Client Sample ID: POST COLUMN 1

Lab Sample ID: 480-195073-2

Matrix: Water

Date Collected: 02/16/22 14:50 Date Received: 02/17/22 08:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	615343	02/18/22 13:34	AXK	TAL BUF
Total/NA	Prep	3510C			615430	02/18/22 15:08	CMC	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	615542	02/21/22 21:44	RJS	TAL BUF

Client Sample ID: POST COLUMN 2

Lab Sample ID: 480-195073-3

Matrix: Water

Date Collected: 02/16/22 15:20 Date Received: 02/17/22 08:30

Batch Batch Dilution Batch Prepared **Prep Type** Type Method Run Factor Number or Analyzed Analyst Lab Total/NA Analysis 8260C 615343 02/18/22 13:12 AXK TAL BUF Total/NA Prep 3510C 615430 02/18/22 15:08 CMC TAL BUF Total/NA Analysis 8270D SIM ID 615542 02/21/22 22:05 RJS TAL BUF 1

Client Sample ID: EFFLUENT

Lab Sample ID: 480-195073-4

Matrix: Water

Date Collected: 02/16/22 16:40 Date Received: 02/17/22 08:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	615343	02/18/22 13:56	AXK	TAL BUF
Total/NA	Prep	3510C			615430	02/18/22 15:08	CMC	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	615542	02/21/22 22:26	RJS	TAL BUF

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-195073-5

Matrix: Water

Date Collected: 02/16/22 00:00 Date Received: 02/17/22 08:30

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	615343	02/18/22 14:18	AXK	TAL BUF

Laboratory References:

TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Tetra Tech GEO Job ID: 480-195073-1

Project/Site: GE Pompey, NY Investigation

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority		Program	Identification Number	Expiration Date
Massachusetts		State	M-NY044	06-30-22
		ort, but the laboratory is not certi	fied by the governing authority. This list ma	y include analytes for which
the agency does not offer	er certification.			
Analysis Method	Prep Method	Matrix	Analyte	
8260C		Water	1,1,1-Trichloroethane	
8260C		Water	1,1,2,2-Tetrachloroethane	
8260C		Water	1,1,2-Trichloro-1,2,2-trifluoroet	hane
8260C		Water	1,1,2-Trichloroethane	
8260C		Water	1,1-Dichloroethane	
8260C		Water	1,1-Dichloroethene	
8260C		Water	1,2,4-Trichlorobenzene	
8260C		Water	1,2-Dibromo-3-Chloropropane	
8260C		Water	1,2-Dibromoethane	
8260C		Water	1,2-Dichlorobenzene	
8260C		Water	1,2-Dichloroethane	
8260C		Water	1,2-Dichloropropane	
8260C		Water	1,3-Dichlorobenzene	
8260C		Water	1,4-Dichlorobenzene	
8260C		Water	2-Butanone (MEK)	
8260C		Water	2-Hexanone	
8260C		Water	4-Methyl-2-pentanone (MIBK)	
8260C		Water	Acetone	
8260C		Water	Benzene	
8260C		Water	Bromodichloromethane	
8260C		Water	Bromoform	
8260C		Water	Bromomethane	
8260C		Water	Carbon disulfide	
8260C		Water	Carbon tetrachloride	
8260C		Water	Chlorobenzene	
8260C		Water	Chloroethane	
8260C		Water	Chloroform	
8260C		Water	Chloromethane	
8260C		Water	cis-1,2-Dichloroethene	
8260C		Water	cis-1,3-Dichloropropene	
8260C		Water	Cyclohexane	
8260C		Water	Dibromochloromethane	
8260C		Water	Dichlorodifluoromethane	
8260C		Water	Ethylbenzene	
8260C		Water	Isopropylbenzene	
8260C		Water	Methyl acetate	
8260C		Water	Methyl tert-butyl ether	
8260C		Water	Methylcyclohexane	
8260C		Water	Methylene Chloride	
8260C		Water	Styrene	
8260C		Water	Tetrachloroethene	
8260C		Water	Toluene	
8260C		Water	trans-1,2-Dichloroethene	
8260C		Water	trans-1,3-Dichloropropene	
8260C		Water	Trichloroethene	

Eurofins Buffalo

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Accreditation/Certification Summary

Client: Tetra Tech GEO Job ID: 480-195073-1

Project/Site: GE Pompey, NY Investigation

Laboratory: Eurofins Buffalo (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

uthority		rogram	Identification Number	Expiration Date
The following analytes the agency does not off	•	ut the laboratory is not certif	ied by the governing authority. This list ma	y include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
8260C		Water	Trichlorofluoromethane	
8260C		Water	Vinyl chloride	
8260C		Water	Xylenes, Total	
8270D SIM ID	3510C	Water	1,4-Dioxane	

Method Summary

Client: Tetra Tech GEO Job ID: 480-195073-1

Project/Site: GE Pompey, NY Investigation

Method	thod Method Description		Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Tetra Tech GEO Job ID: 480-195073-1

Project/Site: GE Pompey, NY Investigation

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-195073-1	INFLUENT	Water	02/16/22 14:30	02/17/22 08:30
480-195073-2	POST COLUMN 1	Water	02/16/22 14:50	02/17/22 08:30
480-195073-3	POST COLUMN 2	Water	02/16/22 15:20	02/17/22 08:30
480-195073-4	EFFLUENT	Water	02/16/22 16:40	02/17/22 08:30
480-195073-5	TRIP BLANK	Water	02/16/22 00:00	02/17/22 08:30

4.4

Cliont Information	Sampler	\Box	M:	Cámer Fracking No(s):		COC No.
Client Contact:	Wolff Lyne is	\Box	Fischer, Brian J	Mary State		480-169454-36972.1
Ms. Bailey Kudla-Williams	C46-246-	^	E-Mail: Brian. Fischer@Eurofinset.com	State of Origin:	74	Page: Dana 1 of 5
Company: Tetra Tech GEO	DWSID:		7	Analysis Regulested		Job #:
Address: 3136 South Winton Road Suite 303	Due Date Requested:	T &T	Pro-			Preservation Codes:
City: Rochester	TAT Requested (days):					
State, Zip: NY, 14623	Compliance Project: A Yes A No	T4T				C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S
Phone: 805-501-8053(Tel)						
Email: bailey.kudlawilliams@tetratech.com	WO#:		(0			
Project Name: GE Pompey, NY Investigation	Project #: 48023743		N 70 e			K - EDTA W - pH 4-5 L - EDA Z - other (specify)
Site:	SSOW#:		o'i - ai			Other:
Sample Identification	Sample Date Time G=	Sample (wewater, Type (Secomp, cowasteol), Cacomp, cowasteol), cowasteoli, cow	ield Filtered : Prop_sim_MS; 2002 - TCL IIst		otal Number o	
	X	Preservation Code:	8 Z		DI X	Special Instructions/Note:
CAN JOW Influent	03/16/12 14:30	(3 Water	×		ا ا	
C-X NJOST POST Column 1	05:71 52/20	(A Water	×		2	
Jan Var	0x; 51 1/9/1/20	(Sq Water	×		, 12	
Factory Effect	02/16/20 16:40	X Water	××		2	
TRIP DIANA)	Water	×			
		Water				
		Water				
JUN-2-04/9//20		Water			480-19507	480-195073 Chain of Custody
		Water				The second secon
	4	Water				
Precible Unesed Identification		Water				
ant [Poison B Unknown Radi	Radiological	Sample Disposal (.	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) Return To Client Assessed By Lab	amples are retaine	ed longer than 1 month)
Deliverable Requested: I, II, III, IV, Other (specify)			Special Instructions/QC Requirements	2C Requirements:		MORE
Empty Nit Kelinquished by:	Date:		Time:	Method o	Method of Shipment:	
Relinquished.by	Date/Time:		Received by	9/1/8	Date/Time	Company ()
Relinquished by.	2 - 16.12 Date/Time:	Company	Received by:		Date/Time	5.30 Compare
Clietardy Spale Intact		and the second	, and and and		Date/Time:	Company
			Cooler Temperature(Cooler Temperature(s) °C and Other Remarks:		

eurofins Environment Testing America

Chain of Custody Record

10 Hazelwood Drive Amherst, NY 14228-2298 Phone: 716-691-2600 Fax: 716-691-7991

Login Sample Receipt Checklist

Client: Tetra Tech GEO Job Number: 480-195073-1

Login Number: 195073 List Source: Eurofins Buffalo

List Number: 1

Creator: Yeager, Brian A

Question Answer Comment Radioactivity either was not measured or, if measured, is at or below background True The cooler's custody seal, if present, is intact. True The cooler or samples do not appear to have been compromised or tampered with. True Samples were received on ice. True
The cooler's custody seal, if present, is intact. True The cooler or samples do not appear to have been compromised or tampered with. True
tampered with.
Samples were received on ice.
Cooler Temperature is acceptable. True
Cooler Temperature is recorded. True
COC is present. True
COC is filled out in ink and legible.
COC is filled out with all pertinent information.
Is the Field Sampler's name present on COC?
There are no discrepancies between the sample IDs on the containers and the COC.
Samples are received within Holding Time (Excluding tests with immediate HTs)
Sample containers have legible labels. True
Containers are not broken or leaking.
Sample collection date/times are provided. True
Appropriate sample containers are used. True
Sample bottles are completely filled. True
Sample Preservation Verified True
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs
VOA sample vials do not have headspace or bubble is <6mm (1/4") in True diameter.
If necessary, staff have been informed of any short hold time or quick TAT True needs
Multiphasic samples are not present. True
Samples do not require splitting or compositing.
Sampling Company provided. True tetra tech
Samples received within 48 hours of sampling.
Samples requiring field filtration have been filtered in the field.
Chlorine Residual checked. N/A

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FEBRUARY 22, 2022 COMLPLETE ANALYTICAL RESULTS



Environment Testing America

ANALYTICAL REPORT

Eurofins Buffalo 10 Hazelwood Drive Amherst, NY 14228-2298 Tel: (716)691-2600

Laboratory Job ID: 480-195229-1

Client Project/Site: GE Pompey, NY Investigation

For:

Tetra Tech GEO 3136 South Winton Road Suite 303 Rochester, New York 14623

Attn: Ms. Bailey Kudla-Williams

Authorized for release by: 2/28/2022 1:59:49 PM

Brian Fischer, Manager of Project Management (716)504-9835

Brian.Fischer@Eurofinset.com

.....LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Tetra Tech GEO Job ID: 480-195229-1

Project/Site: GE Pompey, NY Investigation

Qualifiers

GC/MS VOA

Qualifier Qualifier Description

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier Qualifier Description

E Result exceeded calibration range.

Glossary

Abbreviation	These commonly	v used abbreviations may	v or may not	be present in this report.
ADDIEVIALIOII	THESE COMMISSION	/ useu appleviations may	y Oi illay liot	ne bieseiil iii iiiis ieboii

Eisted under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)
LOD Limit of Detection (DoD/DOE)
LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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Case Narrative

Client: Tetra Tech GEO

Job ID: 480-195229-1 Project/Site: GE Pompey, NY Investigation

Job ID: 480-195229-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative 480-195229-1

Comments

No additional comments.

Receipt

The samples were received on 2/23/2022 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.2° C.

GC/MS VOA

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: INFLUENT (480-195229-1), (480-195229-C-1 MS) and (480-195229-C-1 MSD). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270D SIM ID: The 1,4-Dioxane result reported for sample INFLUENT (480-195229-1) have an E flag qualifier indicating the results are over the calibration range on the raw data. The actual amounts are within the calibration range; however, the E flag is generated based upon the bias corrected concentration. The LIMS system calculates a bias correction based on the recovery of the 1,4-Dioxane-d8 isotope.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

Method 3510C: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with preparation batch 480-615911.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Tetra Tech GEO Job ID: 480-195229-1

Project/Site: GE Pompey, NY Investigation

Client Sample ID: INFLUENT	Lab Sample ID: 480-195229-1
----------------------------	-----------------------------

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	22		4.0	1.5	ug/L	4	_	8260C	Total/NA
Chloroform	1.5	J	4.0	1.4	ug/L	4		8260C	Total/NA
cis-1,2-Dichloroethene	140		4.0	3.2	ug/L	4		8260C	Total/NA
Trichloroethene	4.6		4.0	1.8	ug/L	4		8260C	Total/NA
1,4-Dioxane	71	E	0.20	0.10	ug/L	1		8270D SIM ID	Total/NA

Client Sample ID: POST COLUMN 1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type	
1,4-Dioxane	0.66		0.20	0.10	ug/L	1	_	8270D SIM ID	Total/NA	

Client Sample ID: POST COLUMN 2	Lab Sample ID: 480-195229-3

No Detections.

Client Sample ID: EFFLUENT Lab Sample ID: 480-195229-4

No Detections.

Client Sample ID: TRIP BLANK Lab Sample ID: 480-195229-5

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

2/28/2022

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Lab Sample ID: 480-195229-2

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9

4 4

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13

Client: Tetra Tech GEO Job ID: 480-195229-1

Project/Site: GE Pompey, NY Investigation

Client Sample ID: INFLUENT

Date Received: 02/23/22 08:00

Lab Sample ID: 480-195229-1 Date Collected: 02/22/22 11:50

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS Result Qualifier **MDL** Unit Dil Fac Analyte RL D Prepared Analyzed 1,1,1-Trichloroethane ND 4.0 3.3 ug/L 02/23/22 18:04 ND 1,1,2,2-Tetrachloroethane 4.0 0.84 ug/L 02/23/22 18:04 1,1,2-Trichloroethane ND 4.0 0.92 ug/L 02/23/22 18:04 4.0 1,1,2-Trichloro-1,2,2-trifluoroethane ND 1.2 ug/L 02/23/22 18:04 4.0 02/23/22 18:04 1.1-Dichloroethane 22 1.5 ug/L 1.2 ug/L 1,1-Dichloroethene ND 4.0 02/23/22 18:04 1,2,4-Trichlorobenzene ND 4.0 02/23/22 18:04 ug/L 1,2-Dibromo-3-Chloropropane ND 4.0 02/23/22 18:04 1.6 ug/L 1,2-Dichlorobenzene ND 4.0 3.2 ug/L 02/23/22 18:04 1,2-Dichloroethane ND 4.0 0.84 ug/L 02/23/22 18:04 4 1,2-Dichloropropane ND 4.0 2.9 ug/L 02/23/22 18:04 4 1.3-Dichlorobenzene ND 4.0 3.1 ug/L 02/23/22 18:04 4 1,4-Dichlorobenzene ND 4.0 3.4 ug/L 02/23/22 18:04 4 2-Butanone (MEK) ND 40 5.3 ug/L 02/23/22 18:04 20 2-Hexanone ND 5.0 ug/L 02/23/22 18:04 4-Methyl-2-pentanone (MIBK) ND 20 8.4 ug/L 02/23/22 18:04 Acetone ND 40 02/23/22 18:04 12 ug/L Benzene ND 4.0 1.6 ug/L 02/23/22 18:04 Bromodichloromethane ND 4.0 1.6 ug/L 02/23/22 18:04 Bromoform ND 4.0 1.0 ug/L 02/23/22 18:04 Bromomethane ND 4.0 2.8 ug/L 02/23/22 18:04 Carbon disulfide ND 4.0 0.76 ug/L 02/23/22 18:04 Carbon tetrachloride ND 40 1.1 ug/L 02/23/22 18:04 Chlorobenzene ND 4.0 3.0 ug/L 02/23/22 18:04 Dibromochloromethane ND 4.0 1.3 ug/L 02/23/22 18:04 ND Chloroethane 4.0 1.3 ug/L 02/23/22 18:04 4 Chloroform 1.5 4.0 1.4 ug/L 02/23/22 18:04 4.0 ug/L Chloromethane ND 1.4 02/23/22 18:04 cis-1,2-Dichloroethene 140 4.0 3.2 ug/L 02/23/22 18:04 ND 4.0 1.4 ug/L cis-1,3-Dichloropropene 02/23/22 18:04 Cyclohexane ND 4.0 0.72 ug/L 02/23/22 18:04 Dichlorodifluoromethane ND 4.0 2.7 ug/L 02/23/22 18:04 Ethylbenzene ND 4.0 3.0 ug/L 02/23/22 18:04 1,2-Dibromoethane ND 40 2.9 ug/L 02/23/22 18:04 Isopropylbenzene ND 4.0 3.2 ug/L 02/23/22 18:04 4 Methyl acetate ND 10 02/23/22 18:04 5.2 ug/L Methyl tert-butyl ether ND 4.0 0.64 ug/L 02/23/22 18:04 Methylcyclohexane ND 4.0 0.64 ug/L 02/23/22 18:04 Methylene Chloride ND 4.0 1.8 ug/L 02/23/22 18:04 Styrene ND 4.0 2.9 ug/L 02/23/22 18:04 Tetrachloroethene ND 4.0 1.4 ug/L 02/23/22 18:04 Toluene ND 4.0 2.0 ug/L 02/23/22 18:04 trans-1,2-Dichloroethene ND 4.0 3.6 ug/L 02/23/22 18:04 trans-1,3-Dichloropropene 02/23/22 18:04 ND 4.0 1.5 ug/L **Trichloroethene** 4.6 40 1.8 ug/L 02/23/22 18:04 Trichlorofluoromethane ND 4.0 ug/L 02/23/22 18:04 ND 4.0 Vinyl chloride 3.6 ug/L 02/23/22 18:04 Xylenes, Total ND 8.0 2.6 ug/L 02/23/22 18:04

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Client: Tetra Tech GEO Job ID: 480-195229-1

Project/Site: GE Pompey, NY Investigation

Client Sample ID: INFLUENT

cis-1,3-Dichloropropene

Dichlorodifluoromethane

Cyclohexane

Ethylbenzene

Lab Sample ID: 480-195229-1

Date Collected: 02/22/22 11:50 **Matrix: Water** Date Received: 02/23/22 08:00

Surrogate	%Recovery Qu	ualifier Limits	Prepared Anal	yzed Dil Fac
Toluene-d8 (Surr)	100	80 - 120	02/23/2	2 18:04 4
1,2-Dichloroethane-d4 (Surr)	104	77 - 120	02/23/2	2 18:04 4
4-Bromofluorobenzene (Surr)	99	73 - 120	02/23/2	2 18:04 4
Dibromofluoromethane (Surr)	102	75 - 123	02/23/2	2 18:04 4

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)										
	Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	1,4-Dioxane	71	E	0.20	0.10	ug/L		02/24/22 09:05	02/25/22 19:39	1
	Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
	1,4-Dioxane-d8	31		15 - 110				02/24/22 09:05	02/25/22 19:39	1

Client Sample ID: POST COLUMN 1 Lab Sample ID: 480-195229-2

Date Collected: 02/22/22 12:20 **Matrix: Water**

Date Received: 02/23/22 08:00 Method: 8260C - Volatile Organic Compounds by GC/MS Analyte Result Qualifier RL **MDL** Unit Dil Fac Prepared Analyzed ND 02/23/22 18:27 1,1,1-Trichloroethane 1.0 0.82 ug/L 1,1,2,2-Tetrachloroethane ND 1.0 0.21 ug/L 02/23/22 18:27 ND 1.1.2-Trichloroethane 1.0 0.23 ug/L 02/23/22 18:27 1,1,2-Trichloro-1,2,2-trifluoroethane ND 1.0 0.31 ug/L 02/23/22 18:27 1.1-Dichloroethane ND 1.0 0.38 ug/L 02/23/22 18:27 1,1-Dichloroethene ND 1.0 0.29 ug/L 02/23/22 18:27 1,2,4-Trichlorobenzene ND 1.0 0.41 ug/L 02/23/22 18:27 1,2-Dibromo-3-Chloropropane ND 1.0 0.39 ug/L 02/23/22 18:27 1,2-Dichlorobenzene ND 1.0 0.79 ug/L 02/23/22 18:27 ND 1.0 0.21 ug/L 02/23/22 18:27 1,2-Dichloroethane 1,2-Dichloropropane ND 1.0 0.72 ug/L 02/23/22 18:27 0.78 ug/L 1,3-Dichlorobenzene ND 1.0 02/23/22 18:27 ND 0.84 ug/L 02/23/22 18:27 1,4-Dichlorobenzene 1.0 ND 10 2-Butanone (MEK) 1.3 ug/L 02/23/22 18:27 2-Hexanone ND 5.0 1.2 ug/L 02/23/22 18:27 4-Methyl-2-pentanone (MIBK) ND 5.0 2.1 ug/L 02/23/22 18:27 Acetone ND 10 3.0 ug/L 02/23/22 18:27 ND Renzene 1.0 0.41 ug/L 02/23/22 18:27 Bromodichloromethane ND 1.0 0.39 ug/L 02/23/22 18:27 Bromoform ND 1.0 0.26 ug/L 02/23/22 18:27 0.69 Bromomethane ND 1.0 ug/L 02/23/22 18:27 Carbon disulfide ND 1.0 0.19 ug/L 02/23/22 18:27 Carbon tetrachloride ND 0.27 ug/L 1.0 02/23/22 18:27 Chlorobenzene ND 1.0 0.75 ug/L 02/23/22 18:27 Dibromochloromethane ND 1.0 0.32 ug/L 02/23/22 18:27 Chloroethane ND 1.0 0.32 ug/L 02/23/22 18:27 Chloroform ND 1.0 0.34 ug/L 02/23/22 18:27 Chloromethane ND 1.0 0.35 ug/L 02/23/22 18:27 cis-1,2-Dichloroethene ND 1.0 0.81 ug/L 02/23/22 18:27

1.0

1.0

1.0

1.0

0.36 ug/L

0.18 ug/L

0.68 ug/L

0.74 ug/L

ND

ND

ND

ND

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02/23/22 18:27

02/23/22 18:27

02/23/22 18:27 02/23/22 18:27

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Client: Tetra Tech GEO Job ID: 480-195229-1

Project/Site: GE Pompey, NY Investigation

Client Sample ID: POST COLUMN 1

Date Collected: 02/22/22 12:20 Date Received: 02/23/22 08:00 Lab Sample ID: 480-195229-2

Matrix: Water

Analyte	Result Qualifie	er RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND ND	1.0	0.73	ug/L			02/23/22 18:27	1
Isopropylbenzene	ND	1.0	0.79	ug/L			02/23/22 18:27	1
Methyl acetate	ND	2.5	1.3	ug/L			02/23/22 18:27	1
Methyl tert-butyl ether	ND	1.0	0.16	ug/L			02/23/22 18:27	1
Methylcyclohexane	ND	1.0	0.16	ug/L			02/23/22 18:27	1
Methylene Chloride	ND	1.0	0.44	ug/L			02/23/22 18:27	1
Styrene	ND	1.0	0.73	ug/L			02/23/22 18:27	1
Tetrachloroethene	ND	1.0	0.36	ug/L			02/23/22 18:27	1
Toluene	ND	1.0	0.51	ug/L			02/23/22 18:27	1
trans-1,2-Dichloroethene	ND	1.0	0.90	ug/L			02/23/22 18:27	1
trans-1,3-Dichloropropene	ND	1.0	0.37	ug/L			02/23/22 18:27	1
Trichloroethene	ND	1.0	0.46	ug/L			02/23/22 18:27	1
Trichlorofluoromethane	ND	1.0	0.88	ug/L			02/23/22 18:27	1
Vinyl chloride	ND	1.0	0.90	ug/L			02/23/22 18:27	1
Xylenes, Total	ND	2.0	0.66	ug/L			02/23/22 18:27	1
Surrogate	%Recovery Qualifie	er Limits				Prepared	Analyzed	Dil Fac

Surrogate	%Recovery Qualifier	Limits	Prepared	Analvzed	Dil Fac
Toluene-d8 (Surr)	103	80 - 120		02/23/22 18:27	1
1,2-Dichloroethane-d4 (Surr)	103	77 - 120		02/23/22 18:27	1
4-Bromofluorobenzene (Surr)	102	73 - 120		02/23/22 18:27	1
Dibromofluoromethane (Surr)	106	75 - 123		02/23/22 18:27	1

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Method. 027 0D Olivi ID - Ocilliv	olatile Orge	unic comp	ounus (Gon		isotope	Diluti	Olly		
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.66		0.20	0.10	ug/L		02/24/22 09:05	02/25/22 20:00	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	31		15 - 110				02/24/22 09:05	02/25/22 20:00	1

Client Sample ID: POST COLUMN 2

Date Collected: 02/22/22 12:40 Date Received: 02/23/22 08:00

Lab Sample ID: 480-195229-3

Matrix: Water

Analyte	Result Qu	ıalifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	1.0	0.82	ug/L			02/23/22 18:50	1
1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/L			02/23/22 18:50	1
1,1,2-Trichloroethane	ND	1.0	0.23	ug/L			02/23/22 18:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	0.31	ug/L			02/23/22 18:50	1
1,1-Dichloroethane	ND	1.0	0.38	ug/L			02/23/22 18:50	1
1,1-Dichloroethene	ND	1.0	0.29	ug/L			02/23/22 18:50	1
1,2,4-Trichlorobenzene	ND	1.0	0.41	ug/L			02/23/22 18:50	1
1,2-Dibromo-3-Chloropropane	ND	1.0	0.39	ug/L			02/23/22 18:50	1
1,2-Dichlorobenzene	ND	1.0	0.79	ug/L			02/23/22 18:50	1
1,2-Dichloroethane	ND	1.0	0.21	ug/L			02/23/22 18:50	1
1,2-Dichloropropane	ND	1.0	0.72	ug/L			02/23/22 18:50	1
1,3-Dichlorobenzene	ND	1.0	0.78	ug/L			02/23/22 18:50	1
1,4-Dichlorobenzene	ND	1.0	0.84	ug/L			02/23/22 18:50	1
2-Butanone (MEK)	ND	10	1.3	ug/L			02/23/22 18:50	1
2-Hexanone	ND	5.0	1.2	ug/L			02/23/22 18:50	1
4-Methyl-2-pentanone (MIBK)	ND	5.0	2.1	ug/L			02/23/22 18:50	1

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Client: Tetra Tech GEO Job ID: 480-195229-1

Project/Site: GE Pompey, NY Investigation

Client Sample ID: POST COLUMN 2

Date Collected: 02/22/22 12:40 Date Received: 02/23/22 08:00

Dibromofluoromethane (Surr)

Lab Sample ID: 480-195229-3

Matrix: Water

Analyte	Result Q	ualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND ND		10	3.0	ug/L			02/23/22 18:50	1
Benzene	ND		1.0	0.41	ug/L			02/23/22 18:50	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/23/22 18:50	1
Bromoform	ND		1.0	0.26	ug/L			02/23/22 18:50	1
Bromomethane	ND		1.0	0.69	ug/L			02/23/22 18:50	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/23/22 18:50	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/23/22 18:50	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/23/22 18:50	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/23/22 18:50	1
Chloroethane	ND		1.0	0.32	ug/L			02/23/22 18:50	1
Chloroform	ND		1.0	0.34	ug/L			02/23/22 18:50	1
Chloromethane	ND		1.0	0.35	ug/L			02/23/22 18:50	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/23/22 18:50	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/23/22 18:50	1
Cyclohexane	ND		1.0	0.18	ug/L			02/23/22 18:50	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/23/22 18:50	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/23/22 18:50	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/23/22 18:50	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/23/22 18:50	1
Methyl acetate	ND		2.5	1.3	ug/L			02/23/22 18:50	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/23/22 18:50	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/23/22 18:50	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/23/22 18:50	1
Styrene	ND		1.0	0.73	ug/L			02/23/22 18:50	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/23/22 18:50	1
Toluene	ND		1.0	0.51	ug/L			02/23/22 18:50	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/23/22 18:50	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/23/22 18:50	1
Trichloroethene	ND		1.0	0.46	ug/L			02/23/22 18:50	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/23/22 18:50	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/23/22 18:50	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/23/22 18:50	1
Surrogate	%Recovery Q	ualifier Lim	its				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101	80 -	120			-		02/23/22 18:50	1
1,2-Dichloroethane-d4 (Surr)	109	77 -	120					02/23/22 18:50	1
4-Bromofluorobenzene (Surr)	102	73 -	120					02/23/22 18:50	1

Method: 8270D SIM ID - Sem	ivolatile Organic	c Compounds (GC/	MS SIM /	Isotope	Diluti	on)		
Analyte	Result Qua	alifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND	0.20	0.10	ug/L		02/24/22 09:05	02/25/22 20:22	1
Isotope Dilution	%Recovery Qua	alifier Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	31	15 - 110				02/24/22 09:05	02/25/22 20:22	1

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02/23/22 18:50

Client: Tetra Tech GEO Job ID: 480-195229-1

Project/Site: GE Pompey, NY Investigation

Client Sample ID: EFFLUENT

Lab Sample ID: 480-195229-4 Date Collected: 02/22/22 13:00

Matrix: Water

Date Received: 02/23/22 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			02/23/22 19:13	
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/23/22 19:13	•
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/23/22 19:13	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/23/22 19:13	
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/23/22 19:13	
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/23/22 19:13	
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/23/22 19:13	
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/23/22 19:13	
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/23/22 19:13	
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/23/22 19:13	
1,2-Dichloropropane	ND		1.0	0.72				02/23/22 19:13	
1,3-Dichlorobenzene	ND		1.0	0.78	-			02/23/22 19:13	
1,4-Dichlorobenzene	ND		1.0	0.84				02/23/22 19:13	
2-Butanone (MEK)	ND		10		ug/L			02/23/22 19:13	
2-Hexanone	ND		5.0		ug/L			02/23/22 19:13	
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			02/23/22 19:13	
Acetone	ND		10		ug/L			02/23/22 19:13	
Benzene	ND		1.0	0.41	-			02/23/22 19:13	
Bromodichloromethane	ND		1.0	0.39				02/23/22 19:13	
Bromoform	ND		1.0	0.26	-			02/23/22 19:13	
Bromomethane	ND		1.0	0.69	_			02/23/22 19:13	
Carbon disulfide	ND		1.0	0.19				02/23/22 19:13	· · · · · · · .
Carbon tetrachloride	ND		1.0	0.27	_			02/23/22 19:13	
Chlorobenzene	ND		1.0	0.75	-			02/23/22 19:13	
Dibromochloromethane	ND		1.0	0.32	-			02/23/22 19:13	· · · · · · .
Chloroethane	ND		1.0	0.32	-			02/23/22 19:13	
Chloroform	ND		1.0	0.34	-			02/23/22 19:13	
Chloromethane	ND		1.0	0.35				02/23/22 19:13	
cis-1,2-Dichloroethene	ND		1.0	0.81	•			02/23/22 19:13	
cis-1,3-Dichloropropene	ND		1.0	0.36	-			02/23/22 19:13	
Cyclohexane	ND		1.0	0.18				02/23/22 19:13	
Dichlorodifluoromethane	ND		1.0	0.68	-			02/23/22 19:13	
Ethylbenzene	ND		1.0	0.74	-			02/23/22 19:13	
1,2-Dibromoethane	ND		1.0	0.74				02/23/22 19:13	· · · · · · .
Isopropylbenzene	ND		1.0	0.79	-			02/23/22 19:13	
	ND								
Methyl acetate Methyl tert-butyl ether	ND		2.5 1.0		ug/L ug/L			02/23/22 19:13 02/23/22 19:13	· · · · · · .
Methylcyclohexane	ND		1.0		ug/L ug/L				
Methylene Chloride	ND		1.0		-			02/23/22 19:13	•
					ug/L			02/23/22 19:13	
Styrene Tetrachloroethene	ND		1.0		ug/L			02/23/22 19:13	
	ND		1.0		ug/L			02/23/22 19:13	
Toluene	ND		1.0		ug/L			02/23/22 19:13	· · · · · ·
trans-1,2-Dichloroethene	ND		1.0		ug/L			02/23/22 19:13	
trans-1,3-Dichloropropene	ND		1.0		ug/L			02/23/22 19:13	
Trichlandinana	ND		1.0		ug/L			02/23/22 19:13	
Trichlorofluoromethane	ND		1.0		ug/L			02/23/22 19:13	•
Vinyl chloride Xylenes, Total	ND ND		1.0 2.0		ug/L ug/L			02/23/22 19:13 02/23/22 19:13	

Client: Tetra Tech GEO Job ID: 480-195229-1

Project/Site: GE Pompey, NY Investigation

Client Sample ID: EFFLUENT

Lab Sample ID: 480-195229-4 Date Collected: 02/22/22 13:00 **Matrix: Water**

Date Received: 02/23/22 08:00

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102	80 - 120		02/23/22 19:13	1
1,2-Dichloroethane-d4 (Surr)	102	77 - 120		02/23/22 19:13	1
4-Bromofluorobenzene (Surr)	101	73 - 120		02/23/22 19:13	1
Dibromofluoromethane (Surr)	101	75 - 123		02/23/22 19:13	1

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution) Analyte Result Qualifier RLMDL Unit Prepared **Analyzed** Dil Fac 1,4-Dioxane 0.10 ug/L 02/24/22 09:05 02/25/22 20:43 ND 0.20 Isotope Dilution %Recovery Qualifier Limits Prepared Analyzed Dil Fac 1,4-Dioxane-d8 30 15 - 110 02/24/22 09:05 02/25/22 20:43

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-195229-5 Date Collected: 02/22/22 00:00 **Matrix: Water**

Date Received: 02/23/22 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			02/23/22 19:35	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/23/22 19:35	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/23/22 19:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/23/22 19:35	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/23/22 19:35	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/23/22 19:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/23/22 19:35	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/23/22 19:35	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/23/22 19:35	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/23/22 19:35	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/23/22 19:35	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/23/22 19:35	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/23/22 19:35	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/23/22 19:35	1
2-Hexanone	ND		5.0	1.2	ug/L			02/23/22 19:35	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/23/22 19:35	1
Acetone	ND		10	3.0	ug/L			02/23/22 19:35	1
Benzene	ND		1.0	0.41	ug/L			02/23/22 19:35	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/23/22 19:35	1
Bromoform	ND		1.0	0.26	ug/L			02/23/22 19:35	1
Bromomethane	ND		1.0	0.69	ug/L			02/23/22 19:35	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/23/22 19:35	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/23/22 19:35	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/23/22 19:35	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/23/22 19:35	1
Chloroethane	ND		1.0	0.32				02/23/22 19:35	1
Chloroform	ND		1.0	0.34	ug/L			02/23/22 19:35	1
Chloromethane	ND		1.0	0.35	ug/L			02/23/22 19:35	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/23/22 19:35	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/23/22 19:35	1
Cyclohexane	ND		1.0	0.18	ug/L			02/23/22 19:35	1
Dichlorodifluoromethane	ND		1.0	0.68	-			02/23/22 19:35	1
Ethylbenzene	ND		1.0		ug/L			02/23/22 19:35	1

Client: Tetra Tech GEO Job ID: 480-195229-1

Project/Site: GE Pompey, NY Investigation

Client Sample ID: TRIP BLANK

Date Collected: 02/22/22 00:00 Date Received: 02/23/22 08:00 Lab Sample ID: 480-195229-5

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/23/22 19:35	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/23/22 19:35	1
Methyl acetate	ND		2.5	1.3	ug/L			02/23/22 19:35	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/23/22 19:35	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/23/22 19:35	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/23/22 19:35	1
Styrene	ND		1.0	0.73	ug/L			02/23/22 19:35	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/23/22 19:35	1
Toluene	ND		1.0	0.51	ug/L			02/23/22 19:35	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/23/22 19:35	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/23/22 19:35	1
Trichloroethene	ND		1.0	0.46	ug/L			02/23/22 19:35	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/23/22 19:35	1
Vinyl chloride	ND		1.0	0.90	ug/L			02/23/22 19:35	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/23/22 19:35	1

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102	80 - 120		02/23/22 19:35	1
1,2-Dichloroethane-d4 (Surr)	104	77 - 120		02/23/22 19:35	1
4-Bromofluorobenzene (Surr)	98	73 - 120		02/23/22 19:35	1
Dibromofluoromethane (Surr)	103	75 - 123		02/23/22 19:35	1

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Surrogate Summary

Client: Tetra Tech GEO Job ID: 480-195229-1

Project/Site: GE Pompey, NY Investigation

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water Prep Type: Total/NA

			Pe	ercent Surre	ogate Reco
		TOL	DCA	BFB	DBFM
Lab Sample ID	Client Sample ID	(80-120)	(77-120)	(73-120)	(75-123)
480-195229-1	INFLUENT	100	104	99	102
480-195229-1 MS	INFLUENT	102	103	100	104
480-195229-1 MSD	INFLUENT	103	105	103	108
480-195229-2	POST COLUMN 1	103	103	102	106
480-195229-3	POST COLUMN 2	101	109	102	108
480-195229-4	EFFLUENT	102	102	101	101
480-195229-5	TRIP BLANK	102	104	98	103
LCS 480-615769/5	Lab Control Sample	102	102	106	108
MB 480-615769/8	Method Blank	102	102	102	102

TOL = Toluene-d8 (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

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Isotope Dilution Summary

Client: Tetra Tech GEO Job ID: 480-195229-1

Project/Site: GE Pompey, NY Investigation

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Prep Type: Total/NA **Matrix: Water**

		DXE	
Lab Sample ID	Client Sample ID	(15-110)	
480-195229-1	INFLUENT	31	
480-195229-2	POST COLUMN 1	31	
480-195229-3	POST COLUMN 2	31	
480-195229-4	EFFLUENT	30	
LCS 480-615911/2-A	Lab Control Sample	32	
LCSD 480-615911/3-A	Lab Control Sample Dup	32	
MB 480-615911/1-A	Method Blank	36	
Surrogate Legend			

Client: Tetra Tech GEO Job ID: 480-195229-1

Project/Site: GE Pompey, NY Investigation

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-615769/8

Matrix: Water

Analysis Batch: 615769

Client Sample ID: Method Blank	
Prep Type: Total/NA	
Trop Type: Total/NA	

Analyte		MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			02/23/22 11:09	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			02/23/22 11:09	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			02/23/22 11:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			02/23/22 11:09	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			02/23/22 11:09	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			02/23/22 11:09	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			02/23/22 11:09	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			02/23/22 11:09	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			02/23/22 11:09	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			02/23/22 11:09	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			02/23/22 11:09	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			02/23/22 11:09	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			02/23/22 11:09	1
2-Butanone (MEK)	ND		10	1.3	ug/L			02/23/22 11:09	1
2-Hexanone	ND		5.0	1.2	ug/L			02/23/22 11:09	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			02/23/22 11:09	1
Acetone	ND		10	3.0	ug/L			02/23/22 11:09	1
Benzene	ND		1.0	0.41	ug/L			02/23/22 11:09	1
Bromodichloromethane	ND		1.0	0.39	ug/L			02/23/22 11:09	1
Bromoform	ND		1.0	0.26	ug/L			02/23/22 11:09	1
Bromomethane	ND		1.0	0.69	ug/L			02/23/22 11:09	1
Carbon disulfide	ND		1.0	0.19	ug/L			02/23/22 11:09	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			02/23/22 11:09	1
Chlorobenzene	ND		1.0	0.75	ug/L			02/23/22 11:09	1
Dibromochloromethane	ND		1.0	0.32	ug/L			02/23/22 11:09	1
Chloroethane	ND		1.0	0.32	ug/L			02/23/22 11:09	1
Chloroform	ND		1.0	0.34	ug/L			02/23/22 11:09	1
Chloromethane	ND		1.0	0.35	ug/L			02/23/22 11:09	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			02/23/22 11:09	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			02/23/22 11:09	1
Cyclohexane	ND		1.0	0.18	ug/L			02/23/22 11:09	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			02/23/22 11:09	1
Ethylbenzene	ND		1.0	0.74	ug/L			02/23/22 11:09	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			02/23/22 11:09	1
Isopropylbenzene	ND		1.0	0.79	ug/L			02/23/22 11:09	1
Methyl acetate	ND		2.5	1.3	ug/L			02/23/22 11:09	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			02/23/22 11:09	1
Methylcyclohexane	ND		1.0	0.16	ug/L			02/23/22 11:09	1
Methylene Chloride	ND		1.0	0.44	ug/L			02/23/22 11:09	1
Styrene	ND		1.0	0.73	ug/L			02/23/22 11:09	1
Tetrachloroethene	ND		1.0	0.36	ug/L			02/23/22 11:09	1
Toluene	ND		1.0	0.51	ug/L			02/23/22 11:09	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			02/23/22 11:09	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			02/23/22 11:09	1
Trichloroethene	ND		1.0	0.46	ug/L			02/23/22 11:09	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			02/23/22 11:09	1
Vinyl chloride	ND		1.0		ug/L			02/23/22 11:09	1
Xylenes, Total	ND		2.0	0.66	ug/L			02/23/22 11:09	1

Client: Tetra Tech GEO Job ID: 480-195229-1

Project/Site: GE Pompey, NY Investigation

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-615769/8

Matrix: Water

Analysis Batch: 615769

Client Sample ID: Method Blank

Prep Type: Total/NA

MB MB %Recovery Qualifier Analyzed Dil Fac Surrogate Limits Prepared Toluene-d8 (Surr) 102 80 - 120 02/23/22 11:09 1,2-Dichloroethane-d4 (Surr) 102 77 - 120 02/23/22 11:09 4-Bromofluorobenzene (Surr) 102 73 - 120 02/23/22 11:09 Dibromofluoromethane (Surr) 102 75 - 123 02/23/22 11:09

Lab Sample ID: LCS 480-615769/5

Matrix: Water

Analysis Batch: 615769

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1,1-Trichloroethane	25.0	23.4		ug/L		94	73 - 126	
1,1,2,2-Tetrachloroethane	25.0	24.2		ug/L		97	76 - 120	
1,1,2-Trichloroethane	25.0	24.1		ug/L		96	76 - 122	
1,1,2-Trichloro-1,2,2-trifluoroetha	25.0	24.1		ug/L		96	61 - 148	
ne								
1,1-Dichloroethane	25.0	23.7		ug/L		95	77 - 120	
1,1-Dichloroethene	25.0	23.4		ug/L		94	66 - 127	
1,2,4-Trichlorobenzene	25.0	23.8		ug/L		95	79 - 122	
1,2-Dibromo-3-Chloropropane	25.0	23.2		ug/L		93	56 - 134	
1,2-Dichlorobenzene	25.0	23.1		ug/L		93	80 - 124	
1,2-Dichloroethane	25.0	23.6		ug/L		94	75 - 120	
1,2-Dichloropropane	25.0	24.2		ug/L		97	76 - 120	
1,3-Dichlorobenzene	25.0	23.6		ug/L		95	77 - 120	
1,4-Dichlorobenzene	25.0	23.7		ug/L		95	80 - 120	
2-Butanone (MEK)	125	136		ug/L		109	57 - 140	
2-Hexanone	125	138		ug/L		110	65 - 127	
4-Methyl-2-pentanone (MIBK)	125	131		ug/L		105	71 - 125	
Acetone	125	154		ug/L		123	56 - 142	
Benzene	25.0	24.1		ug/L		96	71 - 124	
Bromodichloromethane	25.0	25.5		ug/L		102	80 - 122	
Bromoform	25.0	24.5		ug/L		98	61 - 132	
Bromomethane	25.0	23.0		ug/L		92	55 - 144	
Carbon disulfide	25.0	23.8		ug/L		95	59 - 134	
Carbon tetrachloride	25.0	23.5		ug/L		94	72 - 134	
Chlorobenzene	25.0	23.4		ug/L		93	80 - 120	
Dibromochloromethane	25.0	24.7		ug/L		99	75 - 125	
Chloroethane	25.0	22.6		ug/L		91	69 - 136	
Chloroform	25.0	23.7		ug/L		95	73 - 127	
Chloromethane	25.0	24.6		ug/L		98	68 - 124	
cis-1,2-Dichloroethene	25.0	23.4		ug/L		94	74 - 124	
cis-1,3-Dichloropropene	25.0	25.1		ug/L		100	74 - 124	
Cyclohexane	25.0	22.5		ug/L		90	59 - 135	
Dichlorodifluoromethane	25.0	30.4		ug/L		122	59 - 135	
Ethylbenzene	25.0	23.6		ug/L		94	77 - 123	
1,2-Dibromoethane	25.0	24.7		ug/L		99	77 - 120	
Isopropylbenzene	25.0	22.1		ug/L		88	77 - 122	
Methyl acetate	50.0	48.7		ug/L		97	74 - 133	
Methyl tert-butyl ether	25.0	24.5		ug/L		98	77 - 120	
Methylcyclohexane	25.0	22.7		ug/L		91	68 - 134	

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Client: Tetra Tech GEO Job ID: 480-195229-1

Project/Site: GE Pompey, NY Investigation

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-615769/5

Matrix: Water

Analysis Batch: 615769

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

%Rec

•	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Methylene Chloride	25.0	24.6		ug/L		98	75 - 124	
Styrene	25.0	23.9		ug/L		96	80 - 120	
Tetrachloroethene	25.0	23.1		ug/L		93	74 - 122	
Toluene	25.0	23.7		ug/L		95	80 - 122	
trans-1,2-Dichloroethene	25.0	23.0		ug/L		92	73 - 127	
trans-1,3-Dichloropropene	25.0	24.7		ug/L		99	80 - 120	
Trichloroethene	25.0	24.2		ug/L		97	74 - 123	
Trichlorofluoromethane	25.0	27.0		ug/L		108	62 - 150	
Vinyl chloride	25.0	26.3		ug/L		105	65 - 133	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
Toluene-d8 (Surr)	102		80 - 120
1,2-Dichloroethane-d4 (Surr)	102		77 - 120
4-Bromofluorobenzene (Surr)	106		73 - 120
Dibromofluoromethane (Surr)	108		75 - 123

Client Sample ID: INFLUENT

Prep Type: Total/NA

Lab Sample ID: 480-195229-1 MS **Matrix: Water**

Analysis Batch: 615769	01-	0	0						0/ 🗖	
Analyte	•	Sample Qualifier	Spike Added		MS Qualifier	Unit	D	%Rec	%Rec. Limits	
1,1,1-Trichloroethane	ND		100	108		ug/L	— <u>-</u>	108	73 - 126	
1,1,2,2-Tetrachloroethane	ND		100	107		ug/L		107	76 - 120	
1,1,2-Trichloroethane	ND		100	105		ug/L		105	76 - 122	
1,1,2-Trichloro-1,2,2-trifluoroetha	ND		100	102		ug/L		102	61 - 148	
ne						J				
1,1-Dichloroethane	22		100	123		ug/L		101	77 - 120	
1,1-Dichloroethene	ND		100	105		ug/L		105	66 - 127	
1,2,4-Trichlorobenzene	ND		100	100		ug/L		100	79 - 122	
1,2-Dibromo-3-Chloropropane	ND		100	101		ug/L		101	56 - 134	
1,2-Dichlorobenzene	ND		100	106		ug/L		106	80 - 124	
1,2-Dichloroethane	ND		100	102		ug/L		102	75 - 120	
1,2-Dichloropropane	ND		100	104		ug/L		104	76 - 120	
1,3-Dichlorobenzene	ND		100	107		ug/L		107	77 - 120	
1,4-Dichlorobenzene	ND		100	104		ug/L		104	78 - 124	
2-Butanone (MEK)	ND		500	571		ug/L		114	57 - 140	
2-Hexanone	ND		500	563		ug/L		113	65 - 127	
4-Methyl-2-pentanone (MIBK)	ND		500	568		ug/L		114	71 - 125	
Acetone	ND		500	604		ug/L		121	56 - 142	
Benzene	ND		100	105		ug/L		105	71 - 124	
Bromodichloromethane	ND		100	107		ug/L		107	80 - 122	
Bromoform	ND		100	101		ug/L		101	61 - 132	
Bromomethane	ND		100	99.9		ug/L		100	55 - 144	
Carbon disulfide	ND		100	102		ug/L		102	59 - 134	
Carbon tetrachloride	ND		100	103		ug/L		103	72 - 134	
Chlorobenzene	ND		100	104		ug/L		104	80 - 120	
Dibromochloromethane	ND		100	106		ug/L		106	75 - 125	
Chloroethane	ND		100	100		ug/L		100	69 - 136	
Chloroform	1.5	J	100	101		ug/L		99	73 - 127	

Client: Tetra Tech GEO Job ID: 480-195229-1

Project/Site: GE Pompey, NY Investigation

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-195229-1 MS

Matrix: Water

Analysis Batch: 615769

Client Sample ID: INFLUENT

Client Sample ID: INFLUENT

%Rec.

112

112

65 - 127

71 - 125

Prep Type: Total/NA

RPD

Prep Type: Total/NA

Analysis Batch. 010705	Sample	Sample	Spike	MS	MS				%Rec.
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits
Chloromethane	ND		100	110		ug/L		110	68 - 124
cis-1,2-Dichloroethene	140		100	232		ug/L		95	74 - 124
cis-1,3-Dichloropropene	ND		100	102		ug/L		102	74 - 124
Cyclohexane	ND		100	99.3		ug/L		99	59 - 135
Dichlorodifluoromethane	ND		100	128		ug/L		128	59 - 135
Ethylbenzene	ND		100	107		ug/L		107	77 - 123
1,2-Dibromoethane	ND		100	105		ug/L		105	77 - 120
Isopropylbenzene	ND		100	105		ug/L		105	77 - 122
Methyl acetate	ND		200	220		ug/L		110	74 - 133
Methyl tert-butyl ether	ND		100	104		ug/L		104	77 - 120
Methylcyclohexane	ND		100	97.9		ug/L		98	68 - 134
Methylene Chloride	ND		100	104		ug/L		104	75 - 124
Styrene	ND		100	106		ug/L		106	80 - 120
Tetrachloroethene	ND		100	104		ug/L		104	74 - 122
Toluene	ND		100	105		ug/L		105	80 - 122
trans-1,2-Dichloroethene	ND		100	104		ug/L		104	73 - 127
trans-1,3-Dichloropropene	ND		100	104		ug/L		104	80 - 120
Trichloroethene	4.6		100	110		ug/L		106	74 - 123
Trichlorofluoromethane	ND		100	115		ug/L		115	62 - 150
Vinyl chloride	ND		100	119		ug/L		119	65 - 133

MS MS

Sample Sample

ND

ND

Surrogate	%Recovery	Qualifier	Limits
Toluene-d8 (Surr)	102		80 - 120
1,2-Dichloroethane-d4 (Surr)	103		77 - 120
4-Bromofluorobenzene (Surr)	100		73 - 120
Dibromofluoromethane (Surr)	104		75 - 123

Lab Sample ID: 480-195229-1 MSD

Matrix: Water

2-Hexanone

4-Methyl-2-pentanone (MIBK)

Analysis Batch: 615769

Analyte	Result C	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1,1-Trichloroethane	ND		100	98.7		ug/L		99	73 - 126	9	15
1,1,2,2-Tetrachloroethane	ND		100	107		ug/L		107	76 - 120	0	15
1,1,2-Trichloroethane	ND		100	100		ug/L		100	76 - 122	4	15
1,1,2-Trichloro-1,2,2-trifluoroetha	ND		100	101		ug/L		101	61 - 148	1	20
ne											
1,1-Dichloroethane	22		100	118		ug/L		96	77 - 120	5	20
1,1-Dichloroethene	ND		100	96.9		ug/L		97	66 - 127	8	16
1,2,4-Trichlorobenzene	ND		100	96.1		ug/L		96	79 - 122	4	20
1,2-Dibromo-3-Chloropropane	ND		100	103		ug/L		103	56 - 134	2	15
1,2-Dichlorobenzene	ND		100	98.5		ug/L		99	80 - 124	8	20
1,2-Dichloroethane	ND		100	100		ug/L		100	75 - 120	2	20
1,2-Dichloropropane	ND		100	102		ug/L		102	76 - 120	2	20
1,3-Dichlorobenzene	ND		100	99.9		ug/L		100	77 - 120	7	20
1,4-Dichlorobenzene	ND		100	97.6		ug/L		98	78 - 124	6	20
2-Butanone (MEK)	ND		500	593		ug/L		119	57 - 140	4	20

MSD MSD

Spike

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559

559

ug/L

ug/L

500

500

15

Client: Tetra Tech GEO Job ID: 480-195229-1

Project/Site: GE Pompey, NY Investigation

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-195229-1 MSD

Matrix: Water

Surrogate Toluene-d8 (Surr)

1,2-Dichloroethane-d4 (Surr) 4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

Analysis Batch: 615769

Client Sample ID: INFLUENT

Prep Type: Total/NA

-	Sample	Sample	Spike	MSD	MSD				%Rec.		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acetone	ND		500	678		ug/L		136	56 - 142	12	15
Benzene	ND		100	100		ug/L		100	71 - 124	4	13
Bromodichloromethane	ND		100	102		ug/L		102	80 - 122	5	15
Bromoform	ND		100	98.4		ug/L		98	61 - 132	3	15
Bromomethane	ND		100	97.9		ug/L		98	55 - 144	2	15
Carbon disulfide	ND		100	94.1		ug/L		94	59 - 134	8	15
Carbon tetrachloride	ND		100	97.8		ug/L		98	72 - 134	5	15
Chlorobenzene	ND		100	97.4		ug/L		97	80 - 120	7	25
Dibromochloromethane	ND		100	101		ug/L		101	75 - 125	4	15
Chloroethane	ND		100	93.8		ug/L		94	69 - 136	6	15
Chloroform	1.5	J	100	96.5		ug/L		95	73 - 127	4	20
Chloromethane	ND		100	102		ug/L		102	68 - 124	7	15
cis-1,2-Dichloroethene	140		100	222		ug/L		85	74 - 124	4	15
cis-1,3-Dichloropropene	ND		100	100		ug/L		100	74 - 124	2	15
Cyclohexane	ND		100	91.9		ug/L		92	59 - 135	8	20
Dichlorodifluoromethane	ND		100	122		ug/L		122	59 - 135	5	20
Ethylbenzene	ND		100	98.6		ug/L		99	77 - 123	8	15
1,2-Dibromoethane	ND		100	103		ug/L		103	77 - 120	1	15
Isopropylbenzene	ND		100	95.1		ug/L		95	77 - 122	10	20
Methyl acetate	ND		200	219		ug/L		109	74 - 133	1	20
Methyl tert-butyl ether	ND		100	105		ug/L		105	77 - 120	1	37
Methylcyclohexane	ND		100	92.7		ug/L		93	68 - 134	5	20
Methylene Chloride	ND		100	102		ug/L		102	75 - 124	2	15
Styrene	ND		100	99.5		ug/L		99	80 - 120	7	20
Tetrachloroethene	ND		100	94.9		ug/L		95	74 - 122	10	20
Toluene	ND		100	100		ug/L		100	80 - 122	5	15
trans-1,2-Dichloroethene	ND		100	96.6		ug/L		97	73 - 127	8	20
trans-1,3-Dichloropropene	ND		100	101		ug/L		101	80 - 120	4	15
Trichloroethene	4.6		100	103		ug/L		99	74 - 123	6	16
Trichlorofluoromethane	ND		100	112		ug/L		112	62 - 150	3	20
Vinyl chloride	ND		100	112		ug/L		112	65 - 133	6	15

75 - 123 Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Limits

80 - 120

77 - 120

73 - 120

Lab Sample ID: MB 480-615911/1-A

MSD MSD %Recovery Qualifier

103

105

103

108

Client Sample ID: Method Blank Matrix: Water Prep Type: Total/NA **Analysis Batch: 616101 Prep Batch: 615911** MB MB Analyte Result Qualifier RL MDL Unit Prepared Analyzed Dil Fac 0.20 02/24/22 09:05 02/25/22 18:33 1,4-Dioxane ND 0.10 ug/L MB MB Isotope Dilution %Recovery Qualifier Limits Prepared Analyzed Dil Fac 02/24/22 09:05 02/25/22 18:33 1,4-Dioxane-d8 36 15 - 110

Eurofins Buffalo

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Client: Tetra Tech GEO Job ID: 480-195229-1

Project/Site: GE Pompey, NY Investigation

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: LCS 480-615911/2-A			Client Sample ID: Lab Control Sample
Matrix: Water			Prep Type: Total/NA
Analysis Batch: 616101			Prep Batch: 615911
	Spike	LCS LCS	%Rec.

		Spike	LCS	LCS				%Rec.	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,4-Dioxane		2.00	2.19		ug/L		109	40 - 140	
	LCS LCS								

	LCS LCS	
Isotope Dilution	%Recovery Qualifier	Limits
1,4-Dioxane-d8	32	15 - 110

Lab Sample ID: LCSD 480-615911/3-A	Client	Sample ID: Lab Control Sample Dup
Matrix: Water		Prep Type: Total/NA
Analysis Batch: 616101		Prep Batch: 615911

-			Spike	LCSD	LCSD				%Rec.		RPD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,4-Dioxane			2.00	2.15		ug/L		107	40 - 140	2	20
	LCSD	LCSD									

QC Association Summary

Client: Tetra Tech GEO Job ID: 480-195229-1

Project/Site: GE Pompey, NY Investigation

GC/MS VOA

Analysis Batch: 615769

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-195229-1	INFLUENT	Total/NA	Water	8260C	
480-195229-2	POST COLUMN 1	Total/NA	Water	8260C	
480-195229-3	POST COLUMN 2	Total/NA	Water	8260C	
480-195229-4	EFFLUENT	Total/NA	Water	8260C	
480-195229-5	TRIP BLANK	Total/NA	Water	8260C	
MB 480-615769/8	Method Blank	Total/NA	Water	8260C	
LCS 480-615769/5	Lab Control Sample	Total/NA	Water	8260C	
480-195229-1 MS	INFLUENT	Total/NA	Water	8260C	
480-195229-1 MSD	INFLUENT	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 615911

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-195229-1	INFLUENT	Total/NA	Water	3510C	
480-195229-2	POST COLUMN 1	Total/NA	Water	3510C	
480-195229-3	POST COLUMN 2	Total/NA	Water	3510C	
480-195229-4	EFFLUENT	Total/NA	Water	3510C	
MB 480-615911/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-615911/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-615911/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 616101

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-195229-1	INFLUENT	Total/NA	Water	8270D SIM ID	615911
480-195229-2	POST COLUMN 1	Total/NA	Water	8270D SIM ID	615911
480-195229-3	POST COLUMN 2	Total/NA	Water	8270D SIM ID	615911
480-195229-4	EFFLUENT	Total/NA	Water	8270D SIM ID	615911
MB 480-615911/1-A	Method Blank	Total/NA	Water	8270D SIM ID	615911
LCS 480-615911/2-A	Lab Control Sample	Total/NA	Water	8270D SIM ID	615911
LCSD 480-615911/3-A	Lab Control Sample Dup	Total/NA	Water	8270D SIM ID	615911

2

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7

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Lab Chronicle

Client: Tetra Tech GEO Job ID: 480-195229-1

Project/Site: GE Pompey, NY Investigation

Client Sample ID: INFLUENT

Lab Sample ID: 480-195229-1 Date Collected: 02/22/22 11:50 **Matrix: Water** Date Received: 02/23/22 08:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	615769	02/23/22 18:04	LCH	TAL BUF
Total/NA	Prep	3510C			615911	02/24/22 09:05	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	616101	02/25/22 19:39	PJQ	TAL BUF

Client Sample ID: POST COLUMN 1

Lab Sample ID: 480-195229-2 Date Collected: 02/22/22 12:20

Matrix: Water

Date Received: 02/23/22 08:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C			615769	02/23/22 18:27	LCH	TAL BUF
Total/NA	Prep	3510C			615911	02/24/22 09:05	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	616101	02/25/22 20:00	PJQ	TAL BUF

Client Sample ID: POST COLUMN 2

Lab Sample ID: 480-195229-3 Date Collected: 02/22/22 12:40

Matrix: Water

Date Received: 02/23/22 08:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C			615769	02/23/22 18:50	LCH	TAL BUF
Total/NA	Prep	3510C			615911	02/24/22 09:05	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	616101	02/25/22 20:22	PJQ	TAL BUF

Client Sample ID: EFFLUENT

Date Received: 02/23/22 08:00

Lab Sample ID: 480-195229-4 Date Collected: 02/22/22 13:00

Matrix: Water

_	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C			615769	02/23/22 19:13	LCH	TAL BUF
Total/NA	Prep	3510C			615911	02/24/22 09:05	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	616101	02/25/22 20:43	PJQ	TAL BUF

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-195229-5 Date Collected: 02/22/22 00:00 **Matrix: Water**

Date Received: 02/23/22 08:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	615769	02/23/22 19:35	LCH	TAL BUF

Laboratory References:

TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Tetra Tech GEO Job ID: 480-195229-1

Project/Site: GE Pompey, NY Investigation

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority		Program	Identification Number	Expiration Date_
Massachusetts		State	M-NY044	06-30-22
The following analytes the agency does not of		eport, but the laboratory is r	not certified by the governing authority.	This list may include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
8260C		Water	1,1,1-Trichloroethane	
8260C		Water	1,1,2,2-Tetrachloroethane	
8260C		Water	1,1,2-Trichloro-1,2,2-trifluoro	ethane
8260C		Water	1,1,2-Trichloroethane	
8260C		Water	1,1-Dichloroethane	
8260C		Water	1,1-Dichloroethene	
8260C		Water	1,2,4-Trichlorobenzene	
8260C		Water	1,2-Dibromo-3-Chloropropar	ne
8260C		Water	1,2-Dibromoethane	
8260C		Water	1,2-Dichlorobenzene	
8260C		Water	1,2-Dichloroethane	
8260C		Water	1,2-Dichloropropane	
8260C		Water	1,3-Dichlorobenzene	
8260C		Water	1,4-Dichlorobenzene	
8260C		Water	2-Butanone (MEK)	
8260C		Water	2-Hexanone	
8260C		Water	4-Methyl-2-pentanone (MIB	()
8260C		Water	Acetone	•
8260C		Water	Benzene	
8260C		Water	Bromodichloromethane	
8260C		Water	Bromoform	
8260C		Water	Bromomethane	
8260C		Water	Carbon disulfide	
8260C		Water	Carbon tetrachloride	
8260C		Water	Chlorobenzene	
8260C		Water	Chloroethane	
8260C		Water	Chloroform	
8260C		Water	Chloromethane	
8260C		Water	cis-1,2-Dichloroethene	
8260C		Water	cis-1,3-Dichloropropene	
8260C		Water	Cyclohexane	
8260C		Water	Dibromochloromethane	
8260C		Water	Dichlorodifluoromethane	
8260C		Water	Ethylbenzene	
8260C		Water	Isopropylbenzene	
8260C		Water	Methyl acetate	
8260C		Water	Methyl tert-butyl ether	
8260C		Water	Methylcyclohexane	
8260C		Water	Methylene Chloride	
8260C		Water	Styrene	
8260C		Water	Tetrachloroethene	
8260C		Water	Toluene	
8260C 8260C		Water	trans-1,2-Dichloroethene	
			·	
8260C 8260C		Water Water	trans-1,3-Dichloropropene Trichloroethene	

Eurofins Buffalo

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Accreditation/Certification Summary

Client: Tetra Tech GEO Job ID: 480-195229-1

Project/Site: GE Pompey, NY Investigation

Laboratory: Eurofins Buffalo (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority		rogram	Identification Number	Expiration Date
The following analytes the agency does not o		ort, but the laboratory is i	not certified by the governing authority.	This list may include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
8260C		Water	Trichlorofluoromethane	
8260C		Water	Vinyl chloride	
8260C		Water	Xylenes, Total	
8270D SIM ID	3510C	Water	1,4-Dioxane	

Method Summary

Client: Tetra Tech GEO

Project/Site: GE Pompey, NY Investigation

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Job ID: 480-195229-1

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Sample Summary

Client: Tetra Tech GEO Job ID: 480-195229-1

Project/Site: GE Pompey, NY Investigation

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-195229-1	INFLUENT	Water	02/22/22 11:50	02/23/22 08:00
480-195229-2	POST COLUMN 1	Water	02/22/22 12:20	02/23/22 08:00
480-195229-3	POST COLUMN 2	Water	02/22/22 12:40	02/23/22 08:00
480-195229-4	EFFLUENT	Water	02/22/22 13:00	02/23/22 08:00
480-195229-5	TRIP BLANK	Water	02/22/22 00:00	02/23/22 08:00

** eurofins Environment Testing	Carrier Tracking No(s):	State of Origin: N / / Page:		Alialysis Requested Preservation Codes:		C - Zn Acetate O - AsnaO2 D - Nitric Acid P - Na2O4S		rate		480-195229 Chain of Custody	yqumpe	চিত্ৰ Special Instructions/Note:		5			\ \frac{1}{2}								Sample Disposal (A fee may the assessed if samples are retained longer than 1 month)	/ Unsposal by Lab Archive For Months equirements:	Method of Shipment:	Date/Ting:	100/ 140/10 Datertime 2/23/22 800	Date/Time: Company	Ind Other Remarks: 7,2 # 1 # CF	
Chain of Custody Record	Sampler Wolff-Shub Lat Misson	2(32-34	PWSID:	Due Date Requested:	l louis	Compliance Project: A Yes A No		(ON TO	e or M	oldme	Sample Matrix Sample (wwater) Type (wwater) Type (wwater) Orm MS/MS	G=grab) BT-Tissue, A-Air) H 0.8270	Preservation Code: XX N A	02/23/33 [1:50 G Water X X	SYMM 12:30 G water XX	OSTALLA LY CA Water X X	04/11/11 3:00 (2) Water X X	Water	Water	Water	Water	Water	Water	Water	Unknown Radiological		Date: $0 + (2)/(2)$	Company Received	18 1808 Company	N. sduron	Cooler Temperature(s) °C and Other Remarks:	
Eurofins Buffalo 10 Hazelwood Drive Amherst, NY 14228-2298 Phone: 716-691-2600 Fax: 716-691-7991		ns	Company. Tetra Tech GEO	on Road Suite 303	City: Rochester	State, Zip. NY, 14623	Phone: 805-501-8053(TeI)	com	ct Name: Pompey, NY Investigation			Sample Identification	\$ H	Inthem	Column	14 Z		Trip Column	-/		30	747		Dorothy Hannel Identification	rossible hazard identification Non-Hazard — Flammable — Skin Irritant — Poison B	Other (specify)	linquished by:		Relinquished by:	als Intact Custody Seal No	Custody Seals Mac: △ Yes △ No	

Client: Tetra Tech GEO Job Number: 480-195229-1

Login Number: 195229 List Source: Eurofins Buffalo

List Number: 1

Creator: Kolb, Chris M

Creator. Nois, Critis W		
Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	TT
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

MARCH 10, 2022 COMLPLETE ANALYTICAL RESULTS



Environment Testing America

ANALYTICAL REPORT

Eurofins Buffalo 10 Hazelwood Drive Amherst, NY 14228-2298 Tel: (716)691-2600

Laboratory Job ID: 480-195732-1

Client Project/Site: GE Pompey, NY Investigation

For:

Tetra Tech GEO 3136 South Winton Road Suite 303 Rochester, New York 14623

Attn: Ms. Bailey Kudla-Williams

The

Authorized for release by: 3/17/2022 1:30:36 PM Rebecca Jones, Project Management Assistant I Rebecca.Jones@Eurofinset.com

Designee for

Brian Fischer, Manager of Project Management (716)504-9835

Brian.Fischer@Eurofinset.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Tetra Tech GEO Job ID: 480-195732-1

Project/Site: GE Pompey, NY Investigation

Qualifiers

GC/MS VOA

Qualifier Qualifier Description

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

E Result exceeded calibration range.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present
PQL Practical Quantitation Limit

PRES Presumptive

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Buffalo

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Case Narrative

Client: Tetra Tech GEO

Job ID: 480-195732-1 Project/Site: GE Pompey, NY Investigation

Job ID: 480-195732-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative 480-195732-1

Comments

No additional comments.

Receipt

The samples were received on 3/12/2022 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.3° C.

GC/MS VOA

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: INFLUENT (480-195732-1). Elevated reporting limits (RLs) are provided.

Method 8260C: The following volatiles sample was diluted due to foaming at the time of purging during the original sample analysis: (CCV 480-617790/5). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270D SIM ID: The 1,4-Dioxane result reported for samples INFLUENT (480-195732-1) and POST COLUMN 1 (480-195732-2) have an E flag qualifier indicating the results are over the calibration range on the raw data. The actual amounts are within the calibration range; however, the E flag is generated based upon the bias corrected concentration. The LIMS system calculates a bias correction based on the recovery of the 1,4-Dioxane-d8 isotope.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Tetra Tech GEO Job ID: 480-195732-1

Project/Site: GE Pompey, NY Investigation

Client Sample ID: INFLUENT	Lab Sample ID: 480-195732-
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Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	35	4.0	1.5	ug/L	4	_	8260C	Total/NA
cis-1,2-Dichloroethene	240	4.0	3.2	ug/L	4		8260C	Total/NA
Trichloroethene	5.0	4.0	1.8	ug/L	4		8260C	Total/NA
Vinyl chloride	37	4.0	3.6	ug/L	4		8260C	Total/NA
1,4-Dioxane	84 E	0.20	0.10	ug/L	1		8270D SIM ID	Total/NA

Client Sample ID: POST COLUMN 1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.19	J	1.0	0.19	ug/L	1	_	8260C	Total/NA
1,4-Dioxane	44	E	0.20	0.10	ug/L	1		8270D SIM ID	Total/NA

Client Sample ID: POST COLUMN 2

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D Method	Prep Type
1.4-Dioxane	0.39	0.20	0.10 ug/L	1 8270D SIM ID	Total/NA

Client Sample ID: EFFLUENT

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
Carbon disulfide	0.22 J	1.0	0.19 ug/L	1	8260C	Total/NA

Client Sample ID: TRIP BLANK

No Detections.

Lab Sample ID: 480-195732-2

Lab Sample ID: 480-195732-3

Lab Sample ID: 480-195732-4

Lab Sample ID: 480-195732-5

Client: Tetra Tech GEO Job ID: 480-195732-1

Project/Site: GE Pompey, NY Investigation

Client Sample ID: INFLUENT

Date Received: 03/12/22 08:00

Lab Sample ID: 480-195732-1 Date Collected: 03/10/22 18:13

Matrix: Water

Analyte	Result Qualifier	RL		Unit	D Prepai	ed Analyzed	Dil Fa
1,1,1-Trichloroethane	ND	4.0	3.3	ug/L		03/15/22 03:14	
1,1,2,2-Tetrachloroethane	ND	4.0	0.84	ug/L		03/15/22 03:14	
1,1,2-Trichloroethane	ND	4.0	0.92	ug/L		03/15/22 03:14	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	4.0	1.2	ug/L		03/15/22 03:14	
1,1-Dichloroethane	35	4.0	1.5	ug/L		03/15/22 03:14	
1,1-Dichloroethene	ND	4.0	1.2	ug/L		03/15/22 03:14	
1,2,4-Trichlorobenzene	ND	4.0	1.6	ug/L		03/15/22 03:14	
1,2-Dibromo-3-Chloropropane	ND	4.0	1.6	ug/L		03/15/22 03:14	
1,2-Dichlorobenzene	ND	4.0	3.2	ug/L		03/15/22 03:14	
1,2-Dichloroethane	ND	4.0	0.84	ug/L		03/15/22 03:14	
1,2-Dichloropropane	ND	4.0	2.9	ug/L		03/15/22 03:14	
1,3-Dichlorobenzene	ND	4.0	3.1	ug/L		03/15/22 03:14	
1,4-Dichlorobenzene	ND	4.0	3.4	ug/L		03/15/22 03:14	
2-Butanone (MEK)	ND	40	5.3	ug/L		03/15/22 03:14	
2-Hexanone	ND	20	5.0	ug/L		03/15/22 03:14	
4-Methyl-2-pentanone (MIBK)	ND	20	8.4	ug/L		03/15/22 03:14	
Acetone	ND	40	12	ug/L		03/15/22 03:14	
Benzene	ND	4.0	1.6	ug/L		03/15/22 03:14	
Bromodichloromethane	ND	4.0	1.6	ug/L		03/15/22 03:14	
Bromoform	ND	4.0	1.0	ug/L		03/15/22 03:14	
Bromomethane	ND	4.0	2.8	ug/L		03/15/22 03:14	
Carbon disulfide	ND	4.0	0.76	ug/L		03/15/22 03:14	
Carbon tetrachloride	ND	4.0	1.1	ug/L		03/15/22 03:14	
Chlorobenzene	ND	4.0	3.0	ug/L		03/15/22 03:14	
Dibromochloromethane	ND	4.0	1.3	ug/L		03/15/22 03:14	
Chloroethane	ND	4.0	1.3	ug/L		03/15/22 03:14	
Chloroform	ND	4.0	1.4	ug/L		03/15/22 03:14	
Chloromethane	ND	4.0	1.4	ug/L		03/15/22 03:14	
cis-1,2-Dichloroethene	240	4.0	3.2	ug/L		03/15/22 03:14	
cis-1,3-Dichloropropene	ND	4.0	1.4	ug/L		03/15/22 03:14	
Cyclohexane	ND	4.0	0.72	ug/L		03/15/22 03:14	
Dichlorodifluoromethane	ND	4.0	2.7	ug/L		03/15/22 03:14	
Ethylbenzene	ND	4.0	3.0	ug/L		03/15/22 03:14	
1,2-Dibromoethane	ND	4.0	2.9	ug/L		03/15/22 03:14	
Isopropylbenzene	ND	4.0	3.2	ug/L		03/15/22 03:14	
Methyl acetate	ND	10	5.2	ug/L		03/15/22 03:14	
Methyl tert-butyl ether	ND	4.0		ug/L		03/15/22 03:14	
Methylcyclohexane	ND	4.0	0.64	ug/L		03/15/22 03:14	
Methylene Chloride	ND	4.0	1.8	ug/L		03/15/22 03:14	
Styrene	ND	4.0	2.9	ug/L		03/15/22 03:14	
Tetrachloroethene	ND	4.0	1.4	ug/L		03/15/22 03:14	
Toluene	ND	4.0	2.0	ug/L		03/15/22 03:14	
trans-1,2-Dichloroethene	ND	4.0		ug/L		03/15/22 03:14	
trans-1,3-Dichloropropene	ND	4.0		ug/L		03/15/22 03:14	
Trichloroethene	5.0	4.0		ug/L		03/15/22 03:14	
Trichlorofluoromethane	ND	4.0		ug/L		03/15/22 03:14	
Vinyl chloride	37	4.0		ug/L		03/15/22 03:14	
Xylenes, Total	ND	8.0		ug/L		03/15/22 03:14	

Eurofins Buffalo

3/17/2022

Client: Tetra Tech GEO Job ID: 480-195732-1

Project/Site: GE Pompey, NY Investigation

Client Sample ID: INFLUENT

Lab Sample ID: 480-195732-1

Date Collected: 03/10/22 18:13 Matrix: Water Date Received: 03/12/22 08:00

Surrogate	%Recovery	Qualifier Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102	80 - 12	<u></u>	03/15/22 03:14	4
1,2-Dichloroethane-d4 (Surr)	110	77 - 12	0	03/15/22 03:14	4
4-Bromofluorobenzene (Surr)	88	73 - 12	0	03/15/22 03:14	4
Dibromofluoromethane (Surr)	112	75 - 12	3	03/15/22 03:14	4

Method: 8270D SIM ID - S	Semivolatile Organic C	ompounds	(GC/MS SIM / Is	sotope D	ilution)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	84	E	0.20	0.10	ug/L		03/14/22 09:43	03/15/22 21:43	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	21		15 - 110				03/14/22 09:43	03/15/22 21:43	1

Client Sample ID: POST COLUMN 1

Lab Sample ID: 480-195732-2 Date Collected: 03/10/22 18:25 Matrix: Water

Date Received: 03/12/22 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/15/22 03:36	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/15/22 03:36	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/15/22 03:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/15/22 03:36	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/15/22 03:36	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/15/22 03:36	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/15/22 03:36	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/15/22 03:36	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/15/22 03:36	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/15/22 03:36	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/15/22 03:36	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/15/22 03:36	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/15/22 03:36	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/15/22 03:36	1
2-Hexanone	ND		5.0	1.2	ug/L			03/15/22 03:36	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/15/22 03:36	1
Acetone	ND		10	3.0	ug/L			03/15/22 03:36	1
Benzene	ND		1.0	0.41	ug/L			03/15/22 03:36	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/15/22 03:36	1
Bromoform	ND		1.0	0.26	ug/L			03/15/22 03:36	1
Bromomethane	ND		1.0	0.69	ug/L			03/15/22 03:36	1
Carbon disulfide	0.19	J	1.0	0.19	ug/L			03/15/22 03:36	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/15/22 03:36	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/15/22 03:36	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/15/22 03:36	1
Chloroethane	ND		1.0	0.32	ug/L			03/15/22 03:36	1
Chloroform	ND		1.0	0.34	ug/L			03/15/22 03:36	1
Chloromethane	ND		1.0	0.35	ug/L			03/15/22 03:36	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/15/22 03:36	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/15/22 03:36	1
Cyclohexane	ND		1.0	0.18	ug/L			03/15/22 03:36	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/15/22 03:36	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/15/22 03:36	1

Client: Tetra Tech GEO Job ID: 480-195732-1

Project/Site: GE Pompey, NY Investigation

Client Sample ID: POST COLUMN 1

Lab Sample ID: 480-195732-2 Date Collected: 03/10/22 18:25 Matrix: Water

Date Received: 03/12/22 08:00

Method: 8260C - Volatile Organi	ic Compounds I	oy GC/MS (Continued)						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/15/22 03:36	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/15/22 03:36	1
Methyl acetate	ND		2.5	1.3	ug/L			03/15/22 03:36	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/15/22 03:36	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/15/22 03:36	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/15/22 03:36	1
Styrene	ND		1.0	0.73	ug/L			03/15/22 03:36	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/15/22 03:36	1
Toluene	ND		1.0	0.51	ug/L			03/15/22 03:36	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/15/22 03:36	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/15/22 03:36	1
Trichloroethene	ND		1.0	0.46	ug/L			03/15/22 03:36	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/15/22 03:36	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/15/22 03:36	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/15/22 03:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		80 - 120			_		03/15/22 03:36	1
1,2-Dichloroethane-d4 (Surr)	111		77 - 120					03/15/22 03:36	1
4-Bromofluorobenzene (Surr)	92		73 - 120					03/15/22 03:36	1
Dibromofluoromethane (Surr)	110		75 - 123					03/15/22 03:36	1

Method: 8270D SIM ID - S	Semivolatile Organic C	ompounds	(GC/MS SIM / Is	sotope D	ilution)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	44	E	0.20	0.10	ug/L		03/14/22 09:43	03/15/22 22:06	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8			15 - 110				03/14/22 09:43	03/15/22 22:06	1

Client Sample ID: POST COLUMN 2

Lab Sample ID: 480-195732-3 Date Collected: 03/10/22 18:50 **Matrix: Water**

Date Received: 03/12/22 08:00

Analyte	Result Qualific	er RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	1.0	0.82	ug/L			03/15/22 03:58	1
1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/L			03/15/22 03:58	1
1,1,2-Trichloroethane	ND	1.0	0.23	ug/L			03/15/22 03:58	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	0.31	ug/L			03/15/22 03:58	1
1,1-Dichloroethane	ND	1.0	0.38	ug/L			03/15/22 03:58	1
1,1-Dichloroethene	ND	1.0	0.29	ug/L			03/15/22 03:58	1
1,2,4-Trichlorobenzene	ND	1.0	0.41	ug/L			03/15/22 03:58	1
1,2-Dibromo-3-Chloropropane	ND	1.0	0.39	ug/L			03/15/22 03:58	1
1,2-Dichlorobenzene	ND	1.0	0.79	ug/L			03/15/22 03:58	1
1,2-Dichloroethane	ND	1.0	0.21	ug/L			03/15/22 03:58	1
1,2-Dichloropropane	ND	1.0	0.72	ug/L			03/15/22 03:58	1
1,3-Dichlorobenzene	ND	1.0	0.78	ug/L			03/15/22 03:58	1
1,4-Dichlorobenzene	ND	1.0	0.84	ug/L			03/15/22 03:58	1
2-Butanone (MEK)	ND	10	1.3	ug/L			03/15/22 03:58	1
2-Hexanone	ND	5.0	1.2	ug/L			03/15/22 03:58	1
4-Methyl-2-pentanone (MIBK)	ND	5.0	2.1	ug/L			03/15/22 03:58	1

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Client: Tetra Tech GEO Job ID: 480-195732-1

Project/Site: GE Pompey, NY Investigation

Client Sample ID: POST COLUMN 2

Lab Sample ID: 480-195732-3 Date Collected: 03/10/22 18:50 Matrix: Water

Date Received: 03/12/22 08:00

Analyte

1,4-Dioxane

Isotope Dilution

1,4-Dioxane-d8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		10	3.0	ug/L			03/15/22 03:58	1
Benzene	ND		1.0	0.41	ug/L			03/15/22 03:58	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/15/22 03:58	1
Bromoform	ND		1.0	0.26	ug/L			03/15/22 03:58	1
Bromomethane	ND		1.0	0.69	ug/L			03/15/22 03:58	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/15/22 03:58	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/15/22 03:58	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/15/22 03:58	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/15/22 03:58	1
Chloroethane	ND		1.0	0.32	ug/L			03/15/22 03:58	1
Chloroform	ND		1.0	0.34	ug/L			03/15/22 03:58	1
Chloromethane	ND		1.0	0.35	ug/L			03/15/22 03:58	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/15/22 03:58	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/15/22 03:58	1
Cyclohexane	ND		1.0	0.18	ug/L			03/15/22 03:58	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/15/22 03:58	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/15/22 03:58	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/15/22 03:58	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/15/22 03:58	1
Methyl acetate	ND		2.5	1.3	ug/L			03/15/22 03:58	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/15/22 03:58	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/15/22 03:58	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/15/22 03:58	1
Styrene	ND		1.0	0.73	ug/L			03/15/22 03:58	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/15/22 03:58	1
Toluene	ND		1.0	0.51	ug/L			03/15/22 03:58	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/15/22 03:58	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/15/22 03:58	1
Trichloroethene	ND		1.0	0.46	ug/L			03/15/22 03:58	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/15/22 03:58	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/15/22 03:58	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/15/22 03:58	1
Surrogate	%Recovery	Qualifier	Limits			_	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		80 - 120			_		03/15/22 03:58	1
1,2-Dichloroethane-d4 (Surr)	111		77 - 120					03/15/22 03:58	1
4-Bromofluorobenzene (Surr)	88		73 - 120					03/15/22 03:58	1
Dibromofluoromethane (Surr)	115		75 - 123					03/15/22 03:58	1

RL

0.20

Limits

15 - 110

MDL Unit

0.10 ug/L

D

Prepared

03/14/22 09:43

Prepared

03/14/22 09:43

Result Qualifier

0.39

%Recovery Qualifier

27

Dil Fac

Dil Fac

Analyzed

03/15/22 22:28

Analyzed

03/15/22 22:28

Client: Tetra Tech GEO Job ID: 480-195732-1

Project/Site: GE Pompey, NY Investigation

Client Sample ID: EFFLUENT

Date Received: 03/12/22 08:00

Lab Sample ID: 480-195732-4 Date Collected: 03/10/22 18:00

Matrix: Water

Analyte	Result C	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/15/22 04:20	
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/15/22 04:20	
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/15/22 04:20	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/15/22 04:20	
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/15/22 04:20	
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/15/22 04:20	
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/15/22 04:20	
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/15/22 04:20	
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/15/22 04:20	
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/15/22 04:20	
1,2-Dichloropropane	ND		1.0		ug/L			03/15/22 04:20	
1,3-Dichlorobenzene	ND		1.0		ug/L			03/15/22 04:20	
1,4-Dichlorobenzene	ND		1.0		ug/L			03/15/22 04:20	
2-Butanone (MEK)	ND		10		ug/L			03/15/22 04:20	
2-Hexanone	ND		5.0		ug/L			03/15/22 04:20	
4-Methyl-2-pentanone (MIBK)	ND		5.0		ug/L			03/15/22 04:20	
Acetone (MISIN)	ND		10		ug/L			03/15/22 04:20	
Benzene	ND		1.0		ug/L			03/15/22 04:20	
Bromodichloromethane	ND		1.0		ug/L			03/15/22 04:20	
Bromoform	ND		1.0		ug/L			03/15/22 04:20	
Bromomethane	ND		1.0		ug/L			03/15/22 04:20	
Carbon disulfide	0.22 J		1.0	0.09				03/15/22 04:20	
	0.22 J ND	J	1.0		-			03/15/22 04:20	
Carbon tetrachloride Chlorobenzene	ND ND				ug/L				
			1.0		ug/L			03/15/22 04:20	
Dibromochloromethane	ND		1.0		ug/L			03/15/22 04:20	
Chloroethane	ND		1.0		ug/L			03/15/22 04:20	
Chloroform	ND		1.0		ug/L			03/15/22 04:20	
Chloromethane	ND		1.0		ug/L			03/15/22 04:20	
cis-1,2-Dichloroethene	ND		1.0		ug/L			03/15/22 04:20	
cis-1,3-Dichloropropene	ND		1.0		ug/L			03/15/22 04:20	
Cyclohexane	ND		1.0		ug/L			03/15/22 04:20	
Dichlorodifluoromethane	ND		1.0		ug/L			03/15/22 04:20	
Ethylbenzene	ND		1.0		ug/L			03/15/22 04:20	
1,2-Dibromoethane	ND		1.0		ug/L			03/15/22 04:20	
Isopropylbenzene	ND		1.0		ug/L			03/15/22 04:20	
Methyl acetate	ND		2.5		ug/L			03/15/22 04:20	
Methyl tert-butyl ether	ND		1.0		ug/L			03/15/22 04:20	
Methylcyclohexane	ND		1.0		ug/L			03/15/22 04:20	
Methylene Chloride	ND		1.0		ug/L			03/15/22 04:20	
Styrene	ND		1.0	0.73	ug/L			03/15/22 04:20	
Tetrachloroethene	ND		1.0	0.36	ug/L			03/15/22 04:20	
Toluene	ND		1.0	0.51	ug/L			03/15/22 04:20	
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/15/22 04:20	
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/15/22 04:20	
Trichloroethene	ND		1.0	0.46	ug/L			03/15/22 04:20	
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/15/22 04:20	
Vinyl chloride	ND		1.0	0.90	ug/L			03/15/22 04:20	
Xylenes, Total	ND		2.0	0.66	ug/L			03/15/22 04:20	

Client: Tetra Tech GEO Job ID: 480-195732-1

Project/Site: GE Pompey, NY Investigation

Client Sample ID: EFFLUENT

Lab Sample ID: 480-195732-4 Date Collected: 03/10/22 18:00

Matrix: Water

Date Received: 03/12/22 08:00

Surrogate	%Recovery	Qualifier Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96	80 - 120		03/15/22 04:20	1
1,2-Dichloroethane-d4 (Surr)	111	77 - 120		03/15/22 04:20	1
4-Bromofluorobenzene (Surr)	96	73 - 120		03/15/22 04:20	1
Dibromofluoromethane (Surr)	108	75 - 123		03/15/22 04:20	1

Method: 8270D SIM ID - 9	Semivolatile Organic C	ompounds	(GC/MS SIM / Is	sotope D	ilution)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		03/14/22 09:43	03/15/22 22:50	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8			15 - 110				03/14/22 09:43	03/15/22 22:50	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-195732-5 Date Collected: 03/10/22 00:00 Matrix: Water

Date Received: 03/12/22 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/15/22 04:42	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/15/22 04:42	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/15/22 04:42	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/15/22 04:42	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/15/22 04:42	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/15/22 04:42	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/15/22 04:42	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/15/22 04:42	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/15/22 04:42	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/15/22 04:42	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/15/22 04:42	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/15/22 04:42	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/15/22 04:42	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/15/22 04:42	1
2-Hexanone	ND		5.0	1.2	ug/L			03/15/22 04:42	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/15/22 04:42	1
Acetone	ND		10	3.0	ug/L			03/15/22 04:42	1
Benzene	ND		1.0	0.41	ug/L			03/15/22 04:42	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/15/22 04:42	1
Bromoform	ND		1.0	0.26	ug/L			03/15/22 04:42	1
Bromomethane	ND		1.0	0.69	ug/L			03/15/22 04:42	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/15/22 04:42	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/15/22 04:42	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/15/22 04:42	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/15/22 04:42	1
Chloroethane	ND		1.0	0.32	ug/L			03/15/22 04:42	1
Chloroform	ND		1.0	0.34	ug/L			03/15/22 04:42	1
Chloromethane	ND		1.0	0.35	ug/L			03/15/22 04:42	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/15/22 04:42	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/15/22 04:42	1
Cyclohexane	ND		1.0	0.18	ug/L			03/15/22 04:42	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/15/22 04:42	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/15/22 04:42	1

Client: Tetra Tech GEO Job ID: 480-195732-1

Project/Site: GE Pompey, NY Investigation

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-195732-5

Date Collected: 03/10/22 00:00 Matrix: Water Date Received: 03/12/22 08:00

Analyte	Result	Qualifier		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND			1.0	0.73	ug/L			03/15/22 04:42	1
Isopropylbenzene	ND			1.0	0.79	ug/L			03/15/22 04:42	1
Methyl acetate	ND			2.5	1.3	ug/L			03/15/22 04:42	1
Methyl tert-butyl ether	ND			1.0	0.16	ug/L			03/15/22 04:42	1
Methylcyclohexane	ND			1.0	0.16	ug/L			03/15/22 04:42	1
Methylene Chloride	ND			1.0	0.44	ug/L			03/15/22 04:42	1
Styrene	ND			1.0	0.73	ug/L			03/15/22 04:42	1
Tetrachloroethene	ND			1.0	0.36	ug/L			03/15/22 04:42	1
Toluene	ND			1.0	0.51	ug/L			03/15/22 04:42	1
trans-1,2-Dichloroethene	ND			1.0	0.90	ug/L			03/15/22 04:42	1
trans-1,3-Dichloropropene	ND			1.0	0.37	ug/L			03/15/22 04:42	1
Trichloroethene	ND			1.0	0.46	ug/L			03/15/22 04:42	1
Trichlorofluoromethane	ND			1.0	0.88	ug/L			03/15/22 04:42	1
Vinyl chloride	ND			1.0	0.90	ug/L			03/15/22 04:42	1
Xylenes, Total	ND			2.0	0.66	ug/L			03/15/22 04:42	1
Surrogate	%Recovery	Qualifier	Limits	;				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 12	20			_		03/15/22 04:42	1
1,2-Dichloroethane-d4 (Surr)	112		77 - 12	20					03/15/22 04:42	1
4-Bromofluorobenzene (Surr)	89		73 - 12	20					03/15/22 04:42	1
Dibromofluoromethane (Surr)	113		75 - 12	23					03/15/22 04:42	1

Surrogate Summary

Client: Tetra Tech GEO Job ID: 480-195732-1

Project/Site: GE Pompey, NY Investigation

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)						
		TOL	DCA	BFB	DBFM			
Lab Sample ID	Client Sample ID	(80-120)	(77-120)	(73-120)	(75-123)			
480-195732-1	INFLUENT	102	110	88	112			
480-195732-2	POST COLUMN 1	101	111	92	110			
480-195732-3	POST COLUMN 2	103	111	88	115			
480-195732-4	EFFLUENT	96	111	96	108			
480-195732-5	TRIP BLANK	102	112	89	113			
LCS 480-617790/6	Lab Control Sample	102	102	92	101			
MB 480-617790/8	Method Blank	96	104	96	102			

Surrogate Legend

TOL = Toluene-d8 (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

Isotope Dilution Summary

Client: Tetra Tech GEO Job ID: 480-195732-1

Project/Site: GE Pompey, NY Investigation

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water Prep Type: Total/NA

			Percent Isotope Dilution Recovery (Acceptance Limits)
		DXE	
Lab Sample ID	Client Sample ID	(15-110)	
480-195732-1	INFLUENT	21	
480-195732-2	POST COLUMN 1	27	
480-195732-3	POST COLUMN 2	27	
480-195732-4	EFFLUENT	19	
LCS 480-617715/2-A	Lab Control Sample	35	
MB 480-617715/1-A	Method Blank	35	
Surrogate Legend			

Client: Tetra Tech GEO Job ID: 480-195732-1

Project/Site: GE Pompey, NY Investigation

Method: 8260C - Volatile Organic Compounds by GC/MS

MB MB

Lab Sample ID: MB 480-617790/8

Matrix: Water

Analysis Batch: 617790

Trichlorofluoromethane

Vinyl chloride

Xylenes, Total

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	Posult	Qualifier	RL	MDI	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	Qualifier	1.0		ug/L		Frepareu	03/14/22 23:54	1
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			03/14/22 23:54	1
1,1,2-Trichloroethane	ND		1.0		ug/L			03/14/22 23:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			03/14/22 23:54	
1,1-Dichloroethane	ND		1.0		ug/L			03/14/22 23:54	1
1,1-Dichloroethene	ND		1.0		ug/L			03/14/22 23:54	
								03/14/22 23:54	1
1,2,4-Trichlorobenzene 1,2-Dibromo-3-Chloropropane	ND		1.0 1.0		ug/L				1
, , ,	ND				ug/L			03/14/22 23:54	1
1,2-Dichlorobenzene	ND		1.0		ug/L			03/14/22 23:54	1
1,2-Dichloroethane	ND		1.0		ug/L			03/14/22 23:54	1
1,2-Dichloropropane	ND		1.0		ug/L			03/14/22 23:54	1
1,3-Dichlorobenzene	ND		1.0		ug/L			03/14/22 23:54	
1,4-Dichlorobenzene	ND		1.0		ug/L			03/14/22 23:54	1
2-Butanone (MEK)	ND		10		ug/L			03/14/22 23:54	1
2-Hexanone	ND		5.0	1.2	ug/L			03/14/22 23:54	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/14/22 23:54	1
Acetone	ND		10	3.0	ug/L			03/14/22 23:54	1
Benzene	ND		1.0	0.41	ug/L			03/14/22 23:54	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/14/22 23:54	1
Bromoform	ND		1.0	0.26	ug/L			03/14/22 23:54	1
Bromomethane	ND		1.0	0.69	ug/L			03/14/22 23:54	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/14/22 23:54	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/14/22 23:54	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/14/22 23:54	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/14/22 23:54	1
Chloroethane	ND		1.0	0.32	ug/L			03/14/22 23:54	1
Chloroform	ND		1.0	0.34	ug/L			03/14/22 23:54	1
Chloromethane	ND		1.0	0.35	ug/L			03/14/22 23:54	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/14/22 23:54	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/14/22 23:54	1
Cyclohexane	ND		1.0	0.18	ug/L			03/14/22 23:54	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/14/22 23:54	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/14/22 23:54	1
1,2-Dibromoethane	ND		1.0		ug/L			03/14/22 23:54	1
Isopropylbenzene	ND		1.0		ug/L			03/14/22 23:54	1
Methyl acetate	ND		2.5		ug/L			03/14/22 23:54	1
Methyl tert-butyl ether	ND		1.0		ug/L			03/14/22 23:54	1
Methylcyclohexane	ND		1.0		ug/L			03/14/22 23:54	1
Methylene Chloride	ND		1.0		ug/L			03/14/22 23:54	1
Styrene	ND		1.0		ug/L			03/14/22 23:54	· · · · · · · 1
Tetrachloroethene	ND		1.0		ug/L			03/14/22 23:54	1
Toluene	ND		1.0		ug/L			03/14/22 23:54	1
trans-1,2-Dichloroethene	ND		1.0		ug/L			03/14/22 23:54	· · · · · · · · · · · · · · · · · · ·
trans-1,3-Dichloropropene	ND ND		1.0		ug/L ug/L			03/14/22 23:54	1
·					•				
Trichloroethene	ND		1.0	0.46	ug/L			03/14/22 23:54	1

Eurofins Buffalo

03/14/22 23:54

03/14/22 23:54

03/14/22 23:54

1.0

1.0

2.0

0.88 ug/L

0.90 ug/L

0.66 ug/L

ND

ND

ND

Client: Tetra Tech GEO Job ID: 480-195732-1

Project/Site: GE Pompey, NY Investigation

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-617790/8

Matrix: Water

Analysis Batch: 617790

Client Sample ID: Method Blank Prep Type: Total/NA

MB MB Dil Fac Surrogate %Recovery Qualifier Limits Prepared Analyzed Toluene-d8 (Surr) 96 80 - 120 03/14/22 23:54 1,2-Dichloroethane-d4 (Surr) 104 77 - 120 03/14/22 23:54 03/14/22 23:54 4-Bromofluorobenzene (Surr) 96 73 - 120 Dibromofluoromethane (Surr) 102 75 - 123 03/14/22 23:54

Lab Sample ID: LCS 480-617790/6

Matrix: Water

Analysis Batch: 617790

Client Sample ID:	Lab Control Sample
	Prep Type: Total/NA

•	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1,1-Trichloroethane	25.0	23.9		ug/L		96	73 - 126	
1,1,2,2-Tetrachloroethane	25.0	27.5		ug/L		110	76 - 120	
1,1,2-Trichloroethane	25.0	25.4		ug/L		102	76 - 122	
1,1,2-Trichloro-1,2,2-trifluoroetha	25.0	23.0		ug/L		92	61 - 148	
ne								
1,1-Dichloroethane	25.0	25.7		ug/L		103	77 - 120	
1,1-Dichloroethene	25.0	23.8		ug/L		95	66 - 127	
1,2,4-Trichlorobenzene	25.0	25.4		ug/L		102	79 - 122	
1,2-Dibromo-3-Chloropropane	25.0	27.4		ug/L		109	56 - 134	
1,2-Dichlorobenzene	25.0	25.9		ug/L		104	80 - 124	
1,2-Dichloroethane	25.0	25.6		ug/L		103	75 - 120	
1,2-Dichloropropane	25.0	24.6		ug/L		99	76 - 120	
1,3-Dichlorobenzene	25.0	25.1		ug/L		100	77 - 120	
1,4-Dichlorobenzene	25.0	24.4		ug/L		98	80 - 120	
2-Butanone (MEK)	125	132		ug/L		106	57 - 140	
2-Hexanone	125	124		ug/L		99	65 - 127	
4-Methyl-2-pentanone (MIBK)	125	135		ug/L		108	71 - 125	
Acetone	125	139		ug/L		111	56 - 142	
Benzene	25.0	24.7		ug/L		99	71 - 124	
Bromodichloromethane	25.0	25.4		ug/L		101	80 - 122	
Bromoform	25.0	24.3		ug/L		97	61 - 132	
Bromomethane	25.0	26.8		ug/L		107	55 - 144	
Carbon disulfide	25.0	24.6		ug/L		98	59 - 134	
Carbon tetrachloride	25.0	23.2		ug/L		93	72 - 134	
Chlorobenzene	25.0	23.8		ug/L		95	80 - 120	
Dibromochloromethane	25.0	25.9		ug/L		104	75 - 125	
Chloroethane	25.0	27.7		ug/L		111	69 - 136	
Chloroform	25.0	24.8		ug/L		99	73 - 127	
Chloromethane	25.0	28.2		ug/L		113	68 - 124	
cis-1,2-Dichloroethene	25.0	24.9		ug/L		99	74 - 124	
cis-1,3-Dichloropropene	25.0	25.2		ug/L		101	74 - 124	
Cyclohexane	25.0	23.4		ug/L		93	59 - 135	
Dichlorodifluoromethane	25.0	26.4		ug/L		106	59 - 135	
Ethylbenzene	25.0	24.2		ug/L		97	77 - 123	
1,2-Dibromoethane	25.0	25.7		ug/L		103	77 - 120	
Isopropylbenzene	25.0	27.6		ug/L		110	77 - 122	
Methyl acetate	50.0	54.6		ug/L		109	74 - 133	
Methyl tert-butyl ether	25.0	26.0		ug/L		104	77 - 120	
Methylcyclohexane	25.0	22.9		ug/L		92	68 - 134	

Client: Tetra Tech GEO Job ID: 480-195732-1

Project/Site: GE Pompey, NY Investigation

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-617790/6

Matrix: Water

Analysis Batch: 617790

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Spike LCS LCS %Rec. Analyte Added Result Qualifier Unit %Rec Limits Methylene Chloride 25.0 26.1 75 - 124 ug/L 104 Styrene 25.0 24.8 ug/L 99 80 - 120 Tetrachloroethene 25.0 74 - 122 22.5 ug/L 90 Toluene 25.0 24.7 ug/L 99 80 - 122 25.0 73 - 127 trans-1,2-Dichloroethene 24.9 ug/L 100 trans-1,3-Dichloropropene 25.0 25.6 ug/L 103 80 - 120 74 - 123 Trichloroethene 25.0 24.0 ug/L 96 Trichlorofluoromethane 25.0 26.5 ug/L 106 62 - 15065 - 133 Vinyl chloride 25.0 27.0 ug/L 108

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
Toluene-d8 (Surr)	102		80 - 120
1,2-Dichloroethane-d4 (Surr)	102		77 - 120
4-Bromofluorobenzene (Surr)	92		73 - 120
Dibromofluoromethane (Surr)	101		75 - 123

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: MB 480-617715/1-A

Matrix: Water

Analysis Batch: 617896

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 617715

-	MB	MB						-	
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		03/14/22 09:36	03/15/22 14:23	1
	MB	MB							
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	35		15 - 110				03/14/22 09:36	03/15/22 14:23	1

Lab Sample ID: LCS 480-617715/2-A

Matrix: Water

Analysis Batch: 617896

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 617715

Spike LCS LCS Analyte Added Result Qualifier Unit D %Rec Limits 1,4-Dioxane 2.00 2.16 ug/L 108 40 - 140

LCS LCS

Isotope Dilution %Recovery Qualifier Limits 1,4-Dioxane-d8 15 - 110 35

QC Association Summary

Client: Tetra Tech GEO Job ID: 480-195732-1

Project/Site: GE Pompey, NY Investigation

GC/MS VOA

Analysis Batch: 617790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-195732-1	INFLUENT	Total/NA	Water	8260C	
480-195732-2	POST COLUMN 1	Total/NA	Water	8260C	
480-195732-3	POST COLUMN 2	Total/NA	Water	8260C	
480-195732-4	EFFLUENT	Total/NA	Water	8260C	
480-195732-5	TRIP BLANK	Total/NA	Water	8260C	
MB 480-617790/8	Method Blank	Total/NA	Water	8260C	
LCS 480-617790/6	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 617715

Lab Sample ID 480-195732-1	Client Sample ID INFLUENT	Prep Type Total/NA	Matrix Water	Method 3510C	Prep Batch
480-195732-2	POST COLUMN 1	Total/NA	Water	3510C	
480-195732-3	POST COLUMN 2	Total/NA	Water	3510C	
480-195732-4	EFFLUENT	Total/NA	Water	3510C	
MB 480-617715/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-617715/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 617896

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-195732-1	INFLUENT	Total/NA	Water	8270D SIM ID	617715
480-195732-2	POST COLUMN 1	Total/NA	Water	8270D SIM ID	617715
480-195732-3	POST COLUMN 2	Total/NA	Water	8270D SIM ID	617715
480-195732-4	EFFLUENT	Total/NA	Water	8270D SIM ID	617715
MB 480-617715/1-A	Method Blank	Total/NA	Water	8270D SIM ID	617715
LCS 480-617715/2-A	Lab Control Sample	Total/NA	Water	8270D SIM ID	617715

Job ID: 480-195732-1

Project/Site: GE Pompey, NY Investigation

Client Sample ID: INFLUENT

Lab Sample ID: 480-195732-1 Date Collected: 03/10/22 18:13

Matrix: Water

Date Received: 03/12/22 08:00

Client: Tetra Tech GEO

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	617790	03/15/22 03:14	AXK	TAL BUF
Total/NA	Prep	3510C			617715	03/14/22 09:43	CMC	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	617896	03/15/22 21:43	PJQ	TAL BUF

Client Sample ID: POST COLUMN 1

Lab Sample ID: 480-195732-2

Matrix: Water

Date Collected: 03/10/22 18:25 Date Received: 03/12/22 08:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	617790	03/15/22 03:36	AXK	TAL BUF
Total/NA	Prep	3510C			617715	03/14/22 09:43	CMC	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	617896	03/15/22 22:06	PJQ	TAL BUF

Client Sample ID: POST COLUMN 2

Lab Sample ID: 480-195732-3

Matrix: Water

Date Collected: 03/10/22 18:50 Date Received: 03/12/22 08:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	617790	03/15/22 03:58	AXK	TAL BUF
Total/NA	Prep	3510C			617715	03/14/22 09:43	CMC	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	617896	03/15/22 22:28	PJQ	TAL BUF

Client Sample ID: EFFLUENT

Lab Sample ID: 480-195732-4

Matrix: Water

Date Collected: 03/10/22 18:00 Date Received: 03/12/22 08:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	617790	03/15/22 04:20	AXK	TAL BUF
Total/NA	Prep	3510C			617715	03/14/22 09:43	CMC	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	617896	03/15/22 22:50	PJQ	TAL BUF

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-195732-5

Matrix: Water

Date Collected: 03/10/22 00:00 Date Received: 03/12/22 08:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	617790	03/15/22 04:42	AXK	TAL BUF

Laboratory References:

TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Tetra Tech GEO Job ID: 480-195732-1

Project/Site: GE Pompey, NY Investigation

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Messachusetts	Authority		Program	Identification Number	Expiration Date
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification. Analysis Method ReadoC Water 1,1,2-Trichinor-12-2-tiflurorethane 2800C Water 1,1,2-Trichinor-12-2-tiflurorethane 2800C Water 1,1,1-Trichinor-12-2-tiflurorethane 2800C Water 1,1-Dichloroethane 2800C Water 1,2-Dibrinor-12-Dichloroethane 2800C Water 1,2-Dibrinor-12-Dichloroethane 2800C Water 1,2-Dibrinor-12-Dichloroethane 2800C Water 1,2-Dichloroethane 2800C Water 1,3-Dichloroethane 2800C Water 1,3-Dichloroethane 2800C Water 2-Hawarone 4-Methyt-2-pentanone (MIBK) 2800C Water 4-Methyt-2-pentanone (MIBK) 2800C Water 8-EROER 8	E		· <u> </u>		
the agency does not offer certification. Analysis Method Prep Method Water 1,1,1-Trichloroethane 1,1,2-Trichloroethane 1,1-2-Trichloroethane 1,1-2-Trichloroethane 1,1-2-Trichloroethane 1,1-2-Trichloroethane 1,1-2-Trichloroethane 1,1-2-Trichloroethane 1,1-1-Trichloroethane 1,1-1-Trichl					
Analysis Method		•	rt, but the laboratory is not cert	ified by the governing authority. This list ma	y include analytes for which
Water 1.1.1.1 "Inchloroethane 2.60C Water 1.1.2.2 "Entrachico-techane 2.60C Water 1.1.2 "Entrachico-techane 2.60C Water 1.1.2 "Entrachico-techane 2.60C Water 1.1.2 "Entrachico-techane 2.60C Water 1.1.0 "Entrachico-techane 2.60C Water 1.1.0 "Entrachico-techane 2.60C Water 1.2.0 "Entrachico-techane 2.60C Water 1.3.0 "Entrachico-techane 2.60C Water 1.3.0 "Entrachico-techane 2.60C Water 1.3.0 "Entrachico-techane 2.60C Water 2.50 "Entrachico-techane 2.60C Wate	the agency does not offe	r certification.			
8260C Water 1,1,2,2-Tetrachloroethane 8260C Water 1,1,2,2-Titchloroethane 8260C Water 1,1,1,2-Titchloroethane 8260C Water 1,1-Dichloroethane 8260C Water 1,1-Dichloroethane 8260C Water 1,2-Dirtomo-3-Chloropropane 8260C Water 1,2-Dichloroethane 8260C Water 1,3-Dichlorobenzene 8260C Water 1,3-Dichlorobenzene 8260C Water 1,3-Dichlorobenzene 8260C Water 2,4-Decanone (MEK) 8260C Water 2,4-Decanone (MEK) 8260C Water 2,4-Decanone (MEK) 8260C Water A,4-Decanone (MIBK) 8260C Water Brownoethane 8260C Water Brownoethane <t< td=""><td></td><td>Prep Method</td><td></td><td></td><td></td></t<>		Prep Method			
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8260C Water					
8260C Water 1,1-Dichloroethane 8260C Water 1,1-Dichloroethane 8260C Water 1,2-Dibromo-3-Chloropropane 8260C Water 1,2-Dibromo-3-Chloropropane 8260C Water 1,2-Dichloroethane 8260C Water 1,2-Dichloroperpane 8260C Water 1,2-Dichloroperpane 8260C Water 1,3-Dichlorobenzane 8260C Water 1,4-Dichlorobenzane 8260C Water 2-Butanone (MEK) 8260C Water 2-Hexanone 8260C Water Benzene 8260C Water Benzene 8260C Water Bromodichloromethane 8260C Water Carbon disulfide 8260C Water Chlorof				1,1,2-Trichloro-1,2,2-trifluoroet	hane
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8280C Water 1,2.4 Trichlorobenzene 8280C Water 1,2.0 bitromo-3-Chloropropane 8280C Water 1,2.0 bitromo-8 bane 8280C Water 1,2.0 bitroforobenzene 8280C Water 1,2.0 bitroforopropane 8280C Water 1,3.0 bitroforobenzene 8280C Water 1,4.0 bitroforobenzene 8280C Water 2,5 bitroforobenzene 8280C Water 2,5 bitroforobenzene 8280C Water 2,5 bitroforobenzene 8280C Water 2,5 bitroforobenzene 8280C Water 4,4 bitroforobenzene 8280C Water 4,4 bitroforobenzene 8280C Water Biromodichloromethane 8280C Water Biromodichloromethane 8280C Water Carbon tetrachloride 8280C Water Chlorobenzene 8280C Water Chlorocethane 8280C Water Chlorocethane 8280C Water Chlorocethane				1,1-Dichloroethane	
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	8260C		Water	trans-1,2-Dichloroethene	
8260C Water Trichloroethene	8260C		Water	trans-1,3-Dichloropropene	
	8260C		Water	Trichloroethene	

Eurofins Buffalo

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Accreditation/Certification Summary

Client: Tetra Tech GEO Job ID: 480-195732-1

Project/Site: GE Pompey, NY Investigation

Laboratory: Eurofins Buffalo (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	<u>P</u> i	rogram	Identification Number	Expiration Date
The following analytes the agency does not of	•	ut the laboratory is not certif	ied by the governing authority. This list ma	y include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
8260C		Water	Trichlorofluoromethane	
8260C		Water	Vinyl chloride	
8260C		Water	Xylenes, Total	
8270D SIM ID	3510C	Water	1,4-Dioxane	

Method Summary

Client: Tetra Tech GEO Job ID: 480-195732-1

Project/Site: GE Pompey, NY Investigation

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

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Sample Summary

Client: Tetra Tech GEO Job ID: 480-195732-1

Project/Site: GE Pompey, NY Investigation

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-195732-1	INFLUENT	Water	03/10/22 18:13	03/12/22 08:00
480-195732-2	POST COLUMN 1	Water	03/10/22 18:25	03/12/22 08:00
480-195732-3	POST COLUMN 2	Water	03/10/22 18:50	03/12/22 08:00
480-195732-4	EFFLUENT	Water	03/10/22 18:00	03/12/22 08:00
480-195732-5	TRIP BLANK	Water	03/10/22 00:00	03/12/22 08:00

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Client Information	Sampler			Lab PM				Carrier Tracking No(s):	COC No.	
Client Contact:	Prince Budia-Ulilliams	10-M111	ams	Fisch	Fischer, Brian J	2			480-169454-36972	3972.3
Ms. Bailey Kudla-Williams	308	-501-8053	533	E-Mail Brian	Fischer	E-Mail: Brian. Fischer@Eurofinset.com	et.com	Stare of Origin:	Page:	10-1
Company: Tetra Tech GEO			PWSID:						Lagera or 5	104-1
Address:							Analysis	Analysis Requested		
3136 South Winton Road Suite 303	Due Date Requesa	ë			,				Preservation Codes:	odes:
Cury. Rochester	TAT Requested (days):	ys):							A - HCL B - NaOH	M - Hexane N - None
State, Zip. NY, 14623	Compliance Project:	1dard	No						C - Zn Acetate D - Nitric Acid	0 - AsnaO2 P - Na2O4S
Phone: 805-501-8053(Tel)	PO#:								F - MeOH	Q - Na2SO3 R - Na2S2O3
Email: bailey.kudlawilliams@tetratech.com	WO#:				(0	91			H - Ascorbic Acid	
Project Name: GE Pompey, NY Investigation	Project #: 48023743				N 10 a				J - DI Water K - EDTA L - EDA	V - MCAA W - pH 4-5 Z - other (enecity)
Site:	SSOW#:				ed (ve					(Alloade) John - 7
Sample Identification		Sample		7	eld Filtered S MS/M myorm	70D_SIM_MS_ 60C - TCL list			o 19dmuhl (si	
	Sample Date		G=grab) BT-Tissue, A=A Preservation Code:	Ē	dX	-			1	Special Instructions/Note:
Influent	3-10-22	1813	0	Water						
Post Column 1		1825	9	Water		1			7 6	
Post Column 2		1850	9	Water) (
Effluent	>	1900	9	Water		×			א ה	
IND Blank	-1	١	1	Water		×) -	
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Doce into the conditional				Water				Depo 10 1118110 20 1061-001	Š.	
Non-Hazard Flammable Skin Irritant Poison B	ison B Unknown		Radiological		Sam	ple Dispos	sal (A fee may	Sample Disposal (A fee may be lassessed if samples are retained longer than 1 month)	ained longer than	1 month)
					Spec	ial Instruct	Special Instructions/QC Requirements:	ements:	D DANS	Months
Empty Kit Relinquished by:		Date:			Time:	<	(Method of Shipment		
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Relinquished by:	S-11-22 Date/Time:	1900		Company	α (Received by:	?	Date/Time;		Company
Custody Seals Infact Custody Seal No)	Augus	ž.	Received by:	W	Date/Time:	800	Company
					0	cooler Temper	Cooler Temperature(s) °C and Other Remarks:			N.
					Ì				-	4

Seurofins Environment Testing America

Chain of Custody Record

Eurofins Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone: 716-691-2600 Fax: 716-691-7991

MARCH 24, 2022 COMLPLETE ANALYTICAL RESULTS

ANALYTICAL REPORT

Eurofins Buffalo 10 Hazelwood Drive Amherst, NY 14228-2298 Tel: (716)691-2600

Laboratory Job ID: 480-196137-1

Client Project/Site: GE Pompey, NY Investigation

For:

Tetra Tech GEO 3136 South Winton Road Suite 303 Rochester, New York 14623

Attn: Ms. Bailey Kudla-Williams

J.

Authorized for release by: 4/1/2022 12:10:33 PM

Rebecca Jones, Project Management Assistant I Rebecca. Jones @ Eurofinset.com

Designee for

Brian Fischer, Manager of Project Management (716)504-9835

Brian.Fischer@Eurofinset.com

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Tetra Tech GEO Job ID: 480-196137-1

Project/Site: GE Pompey, NY Investigation

Qualifiers

GC/MS VOA

Qualifier Qualifier Description

J Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

E Result exceeded calibration range.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery
CFL Contains Free Liquid
CFU Colony Forming Unit
CNF Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac Dilution Factor

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)

LOQ Limit of Quantitation (DoD/DOE)

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present
PQL Practical Quantitation Limit

PRES Presumptive

QC Quality Control
RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

Eurofins Buffalo

4/1/2022

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Case Narrative

Client: Tetra Tech GEO

Job ID: 480-196137-1 Project/Site: GE Pompey, NY Investigation

Job ID: 480-196137-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative 480-196137-1

Comments

No additional comments.

Receipt

The samples were received on 3/25/2022 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.3° C.

GC/MS VOA

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: Influent (480-196137-1). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270D SIM ID: The 1,4-Dioxane result reported for samples Influent (480-196137-1), Post Column 1 (480-196137-2) and Post Column 2 (480-196137-3) have an E flag qualifier indicating the results are over the calibration range on the raw data. The actual amounts are within the calibration range; however, the E flag is generated based upon the bias corrected concentration. The LIMS system calculates a bias correction based on the recovery of the 1,4-Dioxane-d8 isotope.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Tetra Tech GEO Job ID: 480-196137-1

Project/Site: GE Pompey, NY Investigation

Client Sar	nple ID:	Influent
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Lab Sample ID: 480-196137-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	24		4.0	1.5	ug/L	4	_	8260C	Total/NA
cis-1,2-Dichloroethene	170		4.0	3.2	ug/L	4		8260C	Total/NA
Trichloroethene	3.3	J	4.0	1.8	ug/L	4		8260C	Total/NA
Vinyl chloride	5.3		4.0	3.6	ug/L	4		8260C	Total/NA
1,4-Dioxane	76	E	0.21	0.10	ug/L	1		8270D SIM ID	Total/NA

Client Sample ID: Post Column 1

Lab Sample ID: 480-196137-2

Analyte	Result (Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.9	J	10	3.0	ug/L	1		8260C	Total/NA
Carbon disulfide	0.41	J	1.0	0.19	ug/L	1		8260C	Total/NA
1,4-Dioxane	91 E	E	0.20	0.10	ug/L	1		8270D SIM ID	Total/NA

Client Sample ID: Post Column 2

Lab Sample ID: 480-196137-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	130		10	1.3	ug/L	1	_	8260C	Total/NA
Acetone	65		10	3.0	ug/L	1		8260C	Total/NA
Carbon disulfide	0.39	J	1.0	0.19	ug/L	1		8260C	Total/NA
1,4-Dioxane	20	E	0.20	0.10	ug/L	1		8270D SIM ID	Total/NA

Client Sample ID: Effluent

Lab Sample ID: 480-196137-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	Method	Prep Type
Carbon disulfide	1.7		1.0	0.19	ug/L	1	8260C	Total/NA
1,4-Dioxane	0.26		0.20	0.10	ug/L	1	8270D SIM ID	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 480-196137-5

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Buffalo

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Client: Tetra Tech GEO Job ID: 480-196137-1

Project/Site: GE Pompey, NY Investigation

Client Sample ID: Influent

Date Received: 03/25/22 10:00

Lab Sample ID: 480-196137-1 Date Collected: 03/24/22 15:55

Matrix: Water

Analyte	Result	Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fa
1,1,1-Trichloroethane	ND		4.0	3.3	ug/L			03/26/22 05:45	
1,1,2,2-Tetrachloroethane	ND		4.0	0.84	ug/L			03/26/22 05:45	
1,1,2-Trichloroethane	ND		4.0	0.92	ug/L			03/26/22 05:45	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		4.0	1.2	ug/L			03/26/22 05:45	
1,1-Dichloroethane	24		4.0	1.5	ug/L			03/26/22 05:45	
1,1-Dichloroethene	ND		4.0	1.2	ug/L			03/26/22 05:45	
1,2,4-Trichlorobenzene	ND		4.0	1.6	ug/L			03/26/22 05:45	
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/L			03/26/22 05:45	
1,2-Dichlorobenzene	ND		4.0	3.2	ug/L			03/26/22 05:45	
1,2-Dichloroethane	ND		4.0	0.84	ug/L			03/26/22 05:45	
1,2-Dichloropropane	ND		4.0	2.9	ug/L			03/26/22 05:45	
1,3-Dichlorobenzene	ND		4.0	3.1	ug/L			03/26/22 05:45	
1,4-Dichlorobenzene	ND		4.0	3.4	ug/L			03/26/22 05:45	
2-Butanone (MEK)	ND		40		ug/L			03/26/22 05:45	
2-Hexanone	ND		20		ug/L			03/26/22 05:45	
4-Methyl-2-pentanone (MIBK)	ND		20		ug/L			03/26/22 05:45	
Acetone	ND		40		ug/L			03/26/22 05:45	
Benzene	ND		4.0		ug/L			03/26/22 05:45	
Bromodichloromethane	ND		4.0		ug/L			03/26/22 05:45	
Bromoform	ND		4.0		ug/L			03/26/22 05:45	
Bromomethane	ND		4.0		ug/L			03/26/22 05:45	
Carbon disulfide	ND		4.0		ug/L			03/26/22 05:45	
Carbon tetrachloride	ND		4.0		ug/L			03/26/22 05:45	
Chlorobenzene	ND		4.0		ug/L			03/26/22 05:45	
Dibromochloromethane	ND		4.0		ug/L			03/26/22 05:45	
Chloroethane	ND		4.0		ug/L			03/26/22 05:45	
Chloroform	ND		4.0		ug/L			03/26/22 05:45	
Chloromethane	ND		4.0		ug/L			03/26/22 05:45	
cis-1,2-Dichloroethene	170		4.0		ug/L ug/L			03/26/22 05:45	
cis-1,3-Dichloropropene	ND		4.0		ug/L ug/L			03/26/22 05:45	
Cyclohexane	ND		4.0		ug/L ug/L			03/26/22 05:45	
Dichlorodifluoromethane	ND		4.0		ug/L ug/L			03/26/22 05:45	
Ethylbenzene	ND		4.0		ug/L			03/26/22 05:45	
1,2-Dibromoethane	ND		4.0					03/26/22 05:45	
•	ND ND		4.0		ug/L			03/26/22 05:45	
Isopropylbenzene					ug/L				
Methyl acetate	ND		10		ug/L			03/26/22 05:45	
Methyl tert-butyl ether	ND		4.0		ug/L			03/26/22 05:45	
Methylcyclohexane	ND		4.0		ug/L			03/26/22 05:45	
Methylene Chloride	ND		4.0		ug/L			03/26/22 05:45	
Styrene	ND		4.0		ug/L			03/26/22 05:45	
Tetrachloroethene	ND		4.0		ug/L			03/26/22 05:45	
Toluene	ND		4.0		ug/L			03/26/22 05:45	
trans-1,2-Dichloroethene	ND		4.0		ug/L			03/26/22 05:45	
trans-1,3-Dichloropropene	ND		4.0		ug/L			03/26/22 05:45	
Trichloroethene	3.3	J	4.0		ug/L			03/26/22 05:45	
Trichlorofluoromethane	ND		4.0		ug/L			03/26/22 05:45	
Vinyl chloride	5.3		4.0	3.6	ug/L			03/26/22 05:45	

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4/1/2022

Client: Tetra Tech GEO Job ID: 480-196137-1

Project/Site: GE Pompey, NY Investigation

Client Sample ID: Influent

Lab Sample ID: 480-196137-1 Date Collected: 03/24/22 15:55

Matrix: Water

Date Received: 03/25/22 10:00

Surrogate	%Recovery	Qualifier Limits	Prepared	Analyzed Dil	l Fac
Toluene-d8 (Surr)	95	80 - 120		3/26/22 05:45	4
1,2-Dichloroethane-d4 (Surr)	112	77 - 120	03	3/26/22 05:45	4
4-Bromofluorobenzene (Surr)	90	73 - 120	03	3/26/22 05:45	4
Dibromofluoromethane (Surr)	110	75 - 123	03	3/26/22 05:45	4

Method: 8270D SIM ID - Semivolati	ile Organic C	ompounds	(GC/MS SIM /	Isotope D	ilution)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	76	E	0.21	0.10	ug/L		03/29/22 09:29	03/30/22 15:00	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	29		15 - 110				03/29/22 09:29	03/30/22 15:00	1

Client Sample ID: Post Column 1

Lab Sample ID: 480-196137-2 Date Collected: 03/24/22 16:05 Matrix: Water

Date Received: 03/25/22 10:00

Analyte	Result Qual	ifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	1.0	0.82	ug/L			03/26/22 06:07	1
1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/L			03/26/22 06:07	1
1,1,2-Trichloroethane	ND	1.0	0.23	ug/L			03/26/22 06:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	0.31	ug/L			03/26/22 06:07	1
1,1-Dichloroethane	ND	1.0	0.38	ug/L			03/26/22 06:07	1
1,1-Dichloroethene	ND	1.0	0.29	ug/L			03/26/22 06:07	1
1,2,4-Trichlorobenzene	ND	1.0	0.41	ug/L			03/26/22 06:07	1
1,2-Dibromo-3-Chloropropane	ND	1.0	0.39	ug/L			03/26/22 06:07	1
1,2-Dichlorobenzene	ND	1.0	0.79	ug/L			03/26/22 06:07	1
1,2-Dichloroethane	ND	1.0	0.21	ug/L			03/26/22 06:07	1
1,2-Dichloropropane	ND	1.0	0.72	ug/L			03/26/22 06:07	1
1,3-Dichlorobenzene	ND	1.0	0.78	ug/L			03/26/22 06:07	1
1,4-Dichlorobenzene	ND	1.0	0.84	ug/L			03/26/22 06:07	1
2-Butanone (MEK)	ND	10	1.3	ug/L			03/26/22 06:07	1
2-Hexanone	ND	5.0	1.2	ug/L			03/26/22 06:07	1
4-Methyl-2-pentanone (MIBK)	ND	5.0	2.1	ug/L			03/26/22 06:07	1
Acetone	5.9 J	10	3.0	ug/L			03/26/22 06:07	1
Benzene	ND	1.0	0.41	ug/L			03/26/22 06:07	1
Bromodichloromethane	ND	1.0	0.39	ug/L			03/26/22 06:07	1
Bromoform	ND	1.0	0.26	ug/L			03/26/22 06:07	1
Bromomethane	ND	1.0	0.69	ug/L			03/26/22 06:07	1
Carbon disulfide	0.41 J	1.0	0.19	ug/L			03/26/22 06:07	1
Carbon tetrachloride	ND	1.0	0.27	ug/L			03/26/22 06:07	1
Chlorobenzene	ND	1.0	0.75	ug/L			03/26/22 06:07	1
Dibromochloromethane	ND	1.0	0.32	ug/L			03/26/22 06:07	1
Chloroethane	ND	1.0	0.32	ug/L			03/26/22 06:07	1
Chloroform	ND	1.0	0.34	ug/L			03/26/22 06:07	1
Chloromethane	ND	1.0	0.35	ug/L			03/26/22 06:07	1
cis-1,2-Dichloroethene	ND	1.0	0.81	ug/L			03/26/22 06:07	1
cis-1,3-Dichloropropene	ND	1.0	0.36	ug/L			03/26/22 06:07	1
Cyclohexane	ND	1.0	0.18	ug/L			03/26/22 06:07	1
Dichlorodifluoromethane	ND	1.0	0.68	ug/L			03/26/22 06:07	1
Ethylbenzene	ND	1.0		ug/L			03/26/22 06:07	1

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Client: Tetra Tech GEO Job ID: 480-196137-1

Project/Site: GE Pompey, NY Investigation

Client Sample ID: Post Column 1

Date Received: 03/25/22 10:00

Date Collected: 03/24/22 16:05

Lab Sample ID: 480-196137-2

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/26/22 06:07	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/26/22 06:07	1
Methyl acetate	ND		2.5	1.3	ug/L			03/26/22 06:07	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/26/22 06:07	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/26/22 06:07	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/26/22 06:07	1
Styrene	ND		1.0	0.73	ug/L			03/26/22 06:07	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/26/22 06:07	1
Toluene	ND		1.0	0.51	ug/L			03/26/22 06:07	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/26/22 06:07	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/26/22 06:07	1
Trichloroethene	ND		1.0	0.46	ug/L			03/26/22 06:07	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/26/22 06:07	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/26/22 06:07	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/26/22 06:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		80 - 120			=		03/26/22 06:07	1
1,2-Dichloroethane-d4 (Surr)	111		77 - 120					03/26/22 06:07	1
4-Bromofluorobenzene (Surr)	87		73 - 120					03/26/22 06:07	1
Dibromofluoromethane (Surr)	111		75 - 123					03/26/22 06:07	1

Method: 8270D SIM ID - S	Semivolatile Organic C	ompounds	(GC/MS SIM / Is	sotope D	ilution)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	91	E	0.20	0.10	ug/L		03/29/22 09:29	03/30/22 15:22	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	28		15 - 110				03/29/22 09:29	03/30/22 15:22	1

Client Sample ID: Post Column 2 Lab Sample ID: 480-196137-3

Date Collected: 03/24/22 16:12 **Matrix: Water** Date Received: 03/25/22 10:00

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	1.0	0.82	ug/L			03/26/22 06:30	1
1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/L			03/26/22 06:30	1
1,1,2-Trichloroethane	ND	1.0	0.23	ug/L			03/26/22 06:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	0.31	ug/L			03/26/22 06:30	1
1,1-Dichloroethane	ND	1.0	0.38	ug/L			03/26/22 06:30	1
1,1-Dichloroethene	ND	1.0	0.29	ug/L			03/26/22 06:30	1
1,2,4-Trichlorobenzene	ND	1.0	0.41	ug/L			03/26/22 06:30	1
1,2-Dibromo-3-Chloropropane	ND	1.0	0.39	ug/L			03/26/22 06:30	1
1,2-Dichlorobenzene	ND	1.0	0.79	ug/L			03/26/22 06:30	1
1,2-Dichloroethane	ND	1.0	0.21	ug/L			03/26/22 06:30	1
1,2-Dichloropropane	ND	1.0	0.72	ug/L			03/26/22 06:30	1
1,3-Dichlorobenzene	ND	1.0	0.78	ug/L			03/26/22 06:30	1
1,4-Dichlorobenzene	ND	1.0	0.84	ug/L			03/26/22 06:30	1
2-Butanone (MEK)	130	10	1.3	ug/L			03/26/22 06:30	1
2-Hexanone	ND	5.0	1.2	ug/L			03/26/22 06:30	1
4-Methyl-2-pentanone (MIBK)	ND	5.0	2.1	ug/L			03/26/22 06:30	1

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Client: Tetra Tech GEO Job ID: 480-196137-1

Project/Site: GE Pompey, NY Investigation

Client Sample ID: Post Column 2

Lab Sample ID: 480-196137-3 Date Collected: 03/24/22 16:12

Matrix: Water

Date Received: 03/25/22 10:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	65		10	3.0	ug/L			03/26/22 06:30	
Benzene	ND		1.0	0.41	ug/L			03/26/22 06:30	
Bromodichloromethane	ND		1.0	0.39	ug/L			03/26/22 06:30	
Bromoform	ND		1.0	0.26	ug/L			03/26/22 06:30	•
Bromomethane	ND		1.0	0.69	ug/L			03/26/22 06:30	•
Carbon disulfide	0.39	J	1.0	0.19	ug/L			03/26/22 06:30	
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/26/22 06:30	•
Chlorobenzene	ND		1.0	0.75	ug/L			03/26/22 06:30	•
Dibromochloromethane	ND		1.0	0.32	ug/L			03/26/22 06:30	
Chloroethane	ND		1.0	0.32	ug/L			03/26/22 06:30	,
Chloroform	ND		1.0	0.34	ug/L			03/26/22 06:30	,
Chloromethane	ND		1.0	0.35	ug/L			03/26/22 06:30	
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/26/22 06:30	,
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/26/22 06:30	,
Cyclohexane	ND		1.0	0.18	ug/L			03/26/22 06:30	,
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/26/22 06:30	
Ethylbenzene	ND		1.0	0.74	ug/L			03/26/22 06:30	
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/26/22 06:30	
Isopropylbenzene	ND		1.0	0.79	ug/L			03/26/22 06:30	
Methyl acetate	ND		2.5	1.3	ug/L			03/26/22 06:30	,
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/26/22 06:30	
Methylcyclohexane	ND		1.0	0.16	ug/L			03/26/22 06:30	,
Methylene Chloride	ND		1.0	0.44	ug/L			03/26/22 06:30	•
Styrene	ND		1.0	0.73	ug/L			03/26/22 06:30	
Tetrachloroethene	ND		1.0	0.36	ug/L			03/26/22 06:30	•
Toluene	ND		1.0	0.51	ug/L			03/26/22 06:30	,
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/26/22 06:30	
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/26/22 06:30	•
Trichloroethene	ND		1.0	0.46	ug/L			03/26/22 06:30	•
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/26/22 06:30	
Vinyl chloride	ND		1.0	0.90	ug/L			03/26/22 06:30	
Xylenes, Total	ND		2.0	0.66	ug/L			03/26/22 06:30	,
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fa
Toluene-d8 (Surr)	98		80 - 120			-		03/26/22 06:30	
1,2-Dichloroethane-d4 (Surr)	113		77 - 120					03/26/22 06:30	-
4-Bromofluorobenzene (Surr)	85		73 - 120					03/26/22 06:30	
Dibromofluoromethane (Surr)	111		75 - 123					03/26/22 06:30	

Method: 8270D SIM ID - Semivolati	le Organic C	ompounds	(GC/MS SIM / I	sotope D	ilution)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	20	E	0.20	0.10	ug/L		03/29/22 09:29	03/30/22 15:44	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	30		15 - 110				03/29/22 09:29	03/30/22 15:44	1

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Client: Tetra Tech GEO Job ID: 480-196137-1

Project/Site: GE Pompey, NY Investigation

Client Sample ID: Effluent

Date Received: 03/25/22 10:00

Lab Sample ID: 480-196137-4 Date Collected: 03/24/22 16:30

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/26/22 06:52	•
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/26/22 06:52	
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/26/22 06:52	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/26/22 06:52	
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/26/22 06:52	
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/26/22 06:52	
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/26/22 06:52	
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/26/22 06:52	
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/26/22 06:52	
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/26/22 06:52	
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/26/22 06:52	
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/26/22 06:52	
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/26/22 06:52	
2-Butanone (MEK)	ND		10	1.3	ug/L			03/26/22 06:52	
2-Hexanone	ND		5.0	1.2	ug/L			03/26/22 06:52	
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/26/22 06:52	
Acetone	ND		10	3.0	ug/L			03/26/22 06:52	
Benzene	ND		1.0	0.41	ug/L			03/26/22 06:52	
Bromodichloromethane	ND		1.0	0.39	ug/L			03/26/22 06:52	
Bromoform	ND		1.0	0.26	ug/L			03/26/22 06:52	
Bromomethane	ND		1.0	0.69	ug/L			03/26/22 06:52	
Carbon disulfide	1.7		1.0		ug/L			03/26/22 06:52	
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/26/22 06:52	
Chlorobenzene	ND		1.0	0.75	ug/L			03/26/22 06:52	
Dibromochloromethane	ND		1.0	0.32	ug/L			03/26/22 06:52	
Chloroethane	ND		1.0	0.32	ug/L			03/26/22 06:52	
Chloroform	ND		1.0	0.34	ug/L			03/26/22 06:52	
Chloromethane	ND		1.0	0.35	ug/L			03/26/22 06:52	
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/26/22 06:52	
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/26/22 06:52	
Cyclohexane	ND		1.0	0.18	ug/L			03/26/22 06:52	
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/26/22 06:52	
Ethylbenzene	ND		1.0	0.74	ug/L			03/26/22 06:52	
1,2-Dibromoethane	ND		1.0	0.73	ug/L			03/26/22 06:52	
Isopropylbenzene	ND		1.0	0.79	ug/L			03/26/22 06:52	
Methyl acetate	ND		2.5	1.3	ug/L			03/26/22 06:52	
Methyl tert-butyl ether	ND		1.0		ug/L			03/26/22 06:52	
Methylcyclohexane	ND		1.0		ug/L			03/26/22 06:52	
Methylene Chloride	ND		1.0		ug/L			03/26/22 06:52	
Styrene	ND		1.0	0.73	ug/L			03/26/22 06:52	
Tetrachloroethene	ND		1.0		ug/L			03/26/22 06:52	
Toluene	ND		1.0	0.51	ug/L			03/26/22 06:52	
trans-1,2-Dichloroethene	ND		1.0		ug/L			03/26/22 06:52	
trans-1,3-Dichloropropene	ND		1.0		ug/L			03/26/22 06:52	
Trichloroethene	ND		1.0		ug/L			03/26/22 06:52	
Trichlorofluoromethane	ND		1.0		ug/L			03/26/22 06:52	
Vinyl chloride	ND		1.0		ug/L			03/26/22 06:52	
Xylenes, Total	ND		2.0		ug/L			03/26/22 06:52	

Client: Tetra Tech GEO Job ID: 480-196137-1

Project/Site: GE Pompey, NY Investigation

Client Sample ID: Effluent

Lab Sample ID: 480-196137-4 Date Collected: 03/24/22 16:30

Matrix: Water

Date Received: 03/25/22 10:00

Surrogate	%Recovery	Qualifier Limits	Prepared Analyzed	Dil Fac
Toluene-d8 (Surr)	99	80 - 120	03/26/22 06:52	? 1
1,2-Dichloroethane-d4 (Surr)	113	77 - 120	03/26/22 06:5	? 1
4-Bromofluorobenzene (Surr)	82	73 - 120	03/26/22 06:52	? 1
Dibromofluoromethane (Surr)	116	75 - 123	03/26/22 06:5	? 1

Method: 8270D SIM ID - Semivola	ntile Organic C	ompounds	(GC/MS SIM / Is	otope D	ilution)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.26		0.20	0.10	ug/L		03/29/22 09:29	03/30/22 16:06	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	28		15 - 110				03/29/22 09:29	03/30/22 16:06	1

Client Sample ID: Trip Blank

Lab Sample ID: 480-196137-5 Date Collected: 03/24/22 00:00 Matrix: Water

Date Received: 03/25/22 10:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/26/22 07:14	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/26/22 07:14	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			03/26/22 07:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			03/26/22 07:14	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			03/26/22 07:14	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			03/26/22 07:14	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			03/26/22 07:14	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/26/22 07:14	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			03/26/22 07:14	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			03/26/22 07:14	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/26/22 07:14	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/26/22 07:14	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/26/22 07:14	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/26/22 07:14	1
2-Hexanone	ND		5.0	1.2	ug/L			03/26/22 07:14	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/26/22 07:14	1
Acetone	ND		10	3.0	ug/L			03/26/22 07:14	1
Benzene	ND		1.0	0.41	ug/L			03/26/22 07:14	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/26/22 07:14	1
Bromoform	ND		1.0	0.26	ug/L			03/26/22 07:14	1
Bromomethane	ND		1.0	0.69	ug/L			03/26/22 07:14	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/26/22 07:14	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			03/26/22 07:14	1
Chlorobenzene	ND		1.0	0.75	ug/L			03/26/22 07:14	1
Dibromochloromethane	ND		1.0	0.32	ug/L			03/26/22 07:14	1
Chloroethane	ND		1.0	0.32	ug/L			03/26/22 07:14	,
Chloroform	ND		1.0	0.34	ug/L			03/26/22 07:14	1
Chloromethane	ND		1.0	0.35	ug/L			03/26/22 07:14	
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			03/26/22 07:14	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			03/26/22 07:14	1
Cyclohexane	ND		1.0	0.18	ug/L			03/26/22 07:14	
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			03/26/22 07:14	1
Ethylbenzene	ND		1.0	0.74	ug/L			03/26/22 07:14	1

Client: Tetra Tech GEO Job ID: 480-196137-1

Project/Site: GE Pompey, NY Investigation

Client Sample ID: Trip Blank

Lab Sample ID: 480-196137-5 Date Collected: 03/24/22 00:00

Matrix: Water

Date Received: 03/25/22 10:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	MD		1.0	0.73	ug/L			03/26/22 07:14	1
Isopropylbenzene	ND		1.0	0.79	ug/L			03/26/22 07:14	1
Methyl acetate	ND		2.5	1.3	ug/L			03/26/22 07:14	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			03/26/22 07:14	1
Methylcyclohexane	ND		1.0	0.16	ug/L			03/26/22 07:14	1
Methylene Chloride	ND		1.0	0.44	ug/L			03/26/22 07:14	1
Styrene	ND		1.0	0.73	ug/L			03/26/22 07:14	1
Tetrachloroethene	ND		1.0	0.36	ug/L			03/26/22 07:14	1
Toluene	ND		1.0	0.51	ug/L			03/26/22 07:14	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			03/26/22 07:14	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			03/26/22 07:14	1
Trichloroethene	ND		1.0	0.46	ug/L			03/26/22 07:14	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			03/26/22 07:14	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/26/22 07:14	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/26/22 07:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		80 - 120			-		03/26/22 07:14	1
1,2-Dichloroethane-d4 (Surr)	114		77 - 120					03/26/22 07:14	1
4-Bromofluorobenzene (Surr)	86		73 - 120					03/26/22 07:14	1
Dibromofluoromethane (Surr)	115		75 - 123					03/26/22 07:14	1

Surrogate Summary

Client: Tetra Tech GEO Job ID: 480-196137-1

Project/Site: GE Pompey, NY Investigation

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water Prep Type: Total/NA

				Percent Sur	rogate Reco
		TOL	DCA	BFB	DBFM
Lab Sample ID	Client Sample ID	(80-120)	(77-120)	(73-120)	(75-123)
480-196137-1	Influent	95	112	90	110
480-196137-2	Post Column 1	96	111	87	111
480-196137-3	Post Column 2	98	113	85	111
480-196137-4	Effluent	99	113	82	116
480-196137-5	Trip Blank	96	114	86	115
LCS 480-619200/6	Lab Control Sample	96	102	91	97
MB 480-619200/8	Method Blank	100	109	85	109

Surrogate Legend

TOL = Toluene-d8 (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

Eurofins Buffalo

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Isotope Dilution Summary

Client: Tetra Tech GEO Job ID: 480-196137-1

Project/Site: GE Pompey, NY Investigation

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water Prep Type: Total/NA

		DXE	
Lab Sample ID	Client Sample ID	(15-110)	
480-196137-1	Influent	29	
480-196137-2	Post Column 1	28	
480-196137-3	Post Column 2	30	
480-196137-4	Effluent	28	
LCS 480-619488/2-A	Lab Control Sample	33	
MB 480-619488/1-A	Method Blank	32	
Surrogate Legend			

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QC Sample Results

Client: Tetra Tech GEO Job ID: 480-196137-1

Project/Site: GE Pompey, NY Investigation

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-619200/8

Matrix: Water Analysis Batch: 619200 **Client Sample ID: Method Blank**

Prep Type: Total/NA

Ameliate		MB	ъ.	san,	l lmi4	_	Duan	A mal:!	D:: -:
Analyte 1.1.1 Triphlarosthops		Qualifier	RL	MDL		D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			03/26/22 00:35	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			03/26/22 00:35	1
1,1,2-Trichloroethane	ND		1.0		ug/L			03/26/22 00:35	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31				03/26/22 00:35	1
1,1-Dichloroethane	ND		1.0		ug/L			03/26/22 00:35	1
1,1-Dichloroethene	ND		1.0		ug/L			03/26/22 00:35	1
1,2,4-Trichlorobenzene	ND		1.0		ug/L			03/26/22 00:35	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			03/26/22 00:35	1
1,2-Dichlorobenzene	ND		1.0		ug/L			03/26/22 00:35	1
1,2-Dichloroethane	ND		1.0	0.21				03/26/22 00:35	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			03/26/22 00:35	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			03/26/22 00:35	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			03/26/22 00:35	1
2-Butanone (MEK)	ND		10	1.3	ug/L			03/26/22 00:35	1
2-Hexanone	ND		5.0	1.2	ug/L			03/26/22 00:35	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			03/26/22 00:35	1
Acetone	ND		10	3.0	ug/L			03/26/22 00:35	1
Benzene	ND		1.0	0.41	ug/L			03/26/22 00:35	1
Bromodichloromethane	ND		1.0	0.39	ug/L			03/26/22 00:35	1
Bromoform	ND		1.0	0.26	ug/L			03/26/22 00:35	1
Bromomethane	ND		1.0	0.69	ug/L			03/26/22 00:35	1
Carbon disulfide	ND		1.0	0.19	ug/L			03/26/22 00:35	1
Carbon tetrachloride	ND		1.0		ug/L			03/26/22 00:35	1
Chlorobenzene	ND		1.0	0.75	_			03/26/22 00:35	1
Dibromochloromethane	ND		1.0	0.32				03/26/22 00:35	1
Chloroethane	ND		1.0	0.32				03/26/22 00:35	1
Chloroform	ND		1.0		ug/L			03/26/22 00:35	1
Chloromethane	ND		1.0		ug/L			03/26/22 00:35	1
cis-1,2-Dichloroethene	ND		1.0	0.81	_			03/26/22 00:35	1
cis-1,3-Dichloropropene	ND		1.0		ug/L			03/26/22 00:35	1
Cyclohexane	ND		1.0		ug/L			03/26/22 00:35	1
Dichlorodifluoromethane	ND		1.0		ug/L			03/26/22 00:35	1
Ethylbenzene	ND		1.0		ug/L			03/26/22 00:35	1
1,2-Dibromoethane	ND		1.0		ug/L			03/26/22 00:35	·
Isopropylbenzene	ND		1.0		ug/L			03/26/22 00:35	1
Methyl acetate	ND		2.5		ug/L			03/26/22 00:35	1
Methyl tert-butyl ether	ND		1.0	0.16				03/26/22 00:35	
Methylcyclohexane	ND		1.0	0.16				03/26/22 00:35	1
, ,	ND ND		1.0	0.10				03/26/22 00:35	
Methylene Chloride									1
Styrene	ND		1.0	0.73				03/26/22 00:35	1
Tetrachloroethene	ND		1.0	0.36	-			03/26/22 00:35	1
Toluene	ND		1.0	0.51				03/26/22 00:35	
trans-1,2-Dichloroethene	ND		1.0	0.90				03/26/22 00:35	1
trans-1,3-Dichloropropene	ND		1.0	0.37	-			03/26/22 00:35	1
Trichloroethene	ND		1.0	0.46				03/26/22 00:35	
Trichlorofluoromethane	ND		1.0	0.88				03/26/22 00:35	1
Vinyl chloride	ND		1.0	0.90	ug/L			03/26/22 00:35	1
Xylenes, Total	ND		2.0	0.66	ug/L			03/26/22 00:35	1

QC Sample Results

Client: Tetra Tech GEO Job ID: 480-196137-1

Project/Site: GE Pompey, NY Investigation

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-619200/8

Matrix: Water

Analysis Batch: 619200

Client Sample ID: Method Blank **Prep Type: Total/NA**

MB MB

Surrogate	%Recovery 0	Qualifier Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100	80 - 120		03/26/22 00:35	1
1,2-Dichloroethane-d4 (Surr)	109	77 - 120		03/26/22 00:35	1
4-Bromofluorobenzene (Surr)	85	73 - 120		03/26/22 00:35	1
Dibromofluoromethane (Surr)	109	75 - 123		03/26/22 00:35	1

Lab Sample ID: LCS 480-619200/6

Matrix: Water

Client Sample ID:	Lab Control Sample
	Prep Type: Total/NA

Analysis Batch: 619200

	Spike	LCS	LCS		%Rec.	
Analyte	Added	Result	Qualifier Unit	D %Rec	Limits	
1,1,1-Trichloroethane	25.0	21.9	ug/L	88	73 - 126	
1,1,2,2-Tetrachloroethane	25.0	26.4	ug/L	105	76 - 120	
1,1,2-Trichloroethane	25.0	24.3	ug/L	97	76 - 122	
1,1,2-Trichloro-1,2,2-trifluoroetha	25.0	20.1	ug/L	80	61 - 148	
ne						
1,1-Dichloroethane	25.0	23.3	ug/L	93	77 - 120	
1,1-Dichloroethene	25.0	20.9	ug/L	83	66 - 127	
1,2,4-Trichlorobenzene	25.0	23.8	ug/L	95	79 - 122	
1,2-Dibromo-3-Chloropropane	25.0	28.7	ug/L	115	56 - 134	
1,2-Dichlorobenzene	25.0	23.8	ug/L	95	80 - 124	
1,2-Dichloroethane	25.0	25.2	ug/L	101	75 - 120	
1,2-Dichloropropane	25.0	23.7	ug/L	95	76 - 120	
1,3-Dichlorobenzene	25.0	23.2	ug/L	93	77 - 120	
1,4-Dichlorobenzene	25.0	23.1	ug/L	92	80 - 120	
2-Butanone (MEK)	125	136	ug/L	108	57 - 140	
2-Hexanone	125	141	ug/L	113	65 - 127	
4-Methyl-2-pentanone (MIBK)	125	140	ug/L	112	71 - 125	
Acetone	125	136	ug/L	109	56 - 142	
Benzene	25.0	22.8	ug/L	91	71 - 124	
Bromodichloromethane	25.0	24.3	ug/L	97	80 - 122	
Bromoform	25.0	25.0	ug/L	100	61 - 132	
Bromomethane	25.0	25.3	ug/L	101	55 - 144	
Carbon disulfide	25.0	20.8	ug/L	83	59 - 134	
Carbon tetrachloride	25.0	21.8	ug/L	87	72 - 134	
Chlorobenzene	25.0	22.4	ug/L	90	80 - 120	
Dibromochloromethane	25.0	25.2	ug/L	101	75 - 125	
Chloroethane	25.0	26.8	ug/L	107	69 - 136	
Chloroform	25.0	22.7	ug/L	91	73 - 127	
Chloromethane	25.0	26.6	ug/L	106	68 - 124	
cis-1,2-Dichloroethene	25.0	21.8	ug/L	87	74 - 124	
cis-1,3-Dichloropropene	25.0	24.5	ug/L	98	74 - 124	
Cyclohexane	25.0	21.2	ug/L	85	59 - 135	
Dichlorodifluoromethane	25.0	23.5	ug/L	94	59 - 135	
Ethylbenzene	25.0	22.4	ug/L	90	77 - 123	
1,2-Dibromoethane	25.0	24.7	ug/L	99	77 - 120	
Isopropylbenzene	25.0	24.2	ug/L	97	77 - 122	
Methyl acetate	50.0	53.8	ug/L	108	74 - 133	
Methyl tert-butyl ether	25.0	23.7	ug/L	95	77 - 120	
Methylcyclohexane	25.0	20.1	ug/L	80	68 ₋ 134	
Mentyloyolottexatie	25.0	ZU. I	ug/L	00	00 - 104	

QC Sample Results

Client: Tetra Tech GEO Job ID: 480-196137-1

Project/Site: GE Pompey, NY Investigation

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-619200/6

Matrix: Water

Analysis Batch: 619200

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Methylene Chloride	25.0	23.4		ug/L		93	75 - 124	
Styrene	25.0	24.2		ug/L		97	80 - 120	
Tetrachloroethene	25.0	20.3		ug/L		81	74 - 122	
Toluene	25.0	22.6		ug/L		91	80 - 122	
trans-1,2-Dichloroethene	25.0	21.9		ug/L		87	73 - 127	
trans-1,3-Dichloropropene	25.0	24.9		ug/L		100	80 - 120	
Trichloroethene	25.0	22.0		ug/L		88	74 - 123	
Trichlorofluoromethane	25.0	26.5		ug/L		106	62 _ 150	
Vinyl chloride	25.0	25.6		ug/L		102	65 - 133	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
Toluene-d8 (Surr)	96		80 - 120
1,2-Dichloroethane-d4 (Surr)	102		77 - 120
4-Bromofluorobenzene (Surr)	91		73 - 120
Dibromofluoromethane (Surr)	97		75 - 123

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

MR MR

Result Qualifier

Lab Sample ID: MB 480-619488/1-A

Matrix: Water

Analyte

Analysis Batch: 619703

Prep Type: Total/NA

Prepared

Prep Batch: 619488

Client Sample ID: Method Blank

Analyzed

Dil Fac

1,4-Dioxane	ND		0.20	0.10 ug/L	03/29/22 09:29	03/30/22 13:08	1
	MB	MB					
Isotope Dilution	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	32		15 - 110		03/29/22 09:29	03/30/22 13:08	1

RL

MDL Unit

Lab Sample ID: LCS 480-619488/2-A

Matrix: Water

Analysis Batch: 619703

Client Sample ID: Lab Control Sample

Prep Type: Total/NA Prep Batch: 619488

Spike LCS LCS Analyte Added Result Qualifier Unit D %Rec Limits 1,4-Dioxane 2.00 2.19 ug/L 110 40 - 140

LCS LCS

Isotope Dilution %Recovery Qualifier Limits 1,4-Dioxane-d8 33 15 - 110

QC Association Summary

Client: Tetra Tech GEO Job ID: 480-196137-1

Project/Site: GE Pompey, NY Investigation

GC/MS VOA

Analysis Batch: 619200

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-196137-1	Influent	Total/NA	Water	8260C	
480-196137-2	Post Column 1	Total/NA	Water	8260C	
480-196137-3	Post Column 2	Total/NA	Water	8260C	
480-196137-4	Effluent	Total/NA	Water	8260C	
480-196137-5	Trip Blank	Total/NA	Water	8260C	
MB 480-619200/8	Method Blank	Total/NA	Water	8260C	
LCS 480-619200/6	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 619488

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-196137-1	Influent	Total/NA	Water	3510C	
480-196137-2	Post Column 1	Total/NA	Water	3510C	
480-196137-3	Post Column 2	Total/NA	Water	3510C	
480-196137-4	Effluent	Total/NA	Water	3510C	
MB 480-619488/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-619488/2-A	Lab Control Sample	Total/NA	Water	3510C	

Analysis Batch: 619703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-196137-1	Influent	Total/NA	Water	8270D SIM ID	619488
480-196137-2	Post Column 1	Total/NA	Water	8270D SIM ID	619488
480-196137-3	Post Column 2	Total/NA	Water	8270D SIM ID	619488
480-196137-4	Effluent	Total/NA	Water	8270D SIM ID	619488
MB 480-619488/1-A	Method Blank	Total/NA	Water	8270D SIM ID	619488
LCS 480-619488/2-A	Lab Control Sample	Total/NA	Water	8270D SIM ID	619488

Job ID: 480-196137-1

Project/Site: GE Pompey, NY Investigation

Client Sample ID: Influent

Client: Tetra Tech GEO

Date Collected: 03/24/22 15:55 Date Received: 03/25/22 10:00 Lab Sample ID: 480-196137-1

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	619200	03/26/22 05:45	CRL	TAL BUF
Total/NA	Prep	3510C			619488	03/29/22 09:29	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	619703	03/30/22 15:00	PJQ	TAL BUF

Client Sample ID: Post Column 1

Date Collected: 03/24/22 16:05 Date Received: 03/25/22 10:00

Lab Sample ID: 480-196137-2

Lab Sample ID: 480-196137-3

Matrix: Water

Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	619200	03/26/22 06:07	CRL	TAL BUF
Total/NA	Prep	3510C			619488	03/29/22 09:29	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	619703	03/30/22 15:22	PJQ	TAL BUF

Client Sample ID: Post Column 2

Date Collected: 03/24/22 16:12

Date Received: 03/25/22 10:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	619200	03/26/22 06:30	CRL	TAL BUF
Total/NA	Prep	3510C			619488	03/29/22 09:29	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	619703	03/30/22 15:44	PJQ	TAL BUF

Client Sample ID: Effluent

Date Collected: 03/24/22 16:30

Date Received: 03/25/22 10:00

Lab Sample	ID:	480-196137-4
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Matrix: Water

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	619200	03/26/22 06:52	CRL	TAL BUF
Total/NA	Prep	3510C			619488	03/29/22 09:29	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	619703	03/30/22 16:06	PJQ	TAL BUF

Client Sample ID: Trip Blank

Date Collected: 03/24/22 00:00	Matrix: Water
Date Received: 03/25/22 10:00	

		Batch	Batch		Dilution	Batch	Prepared		
	Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
l	Total/NA	Analysis	8260C		1	619200	03/26/22 07:14	CRL	TAL BUF

Laboratory References:

TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Eurofins Buffalo

Lab Sample ID: 480-196137-5

Accreditation/Certification Summary

Client: Tetra Tech GEO Job ID: 480-196137-1

Project/Site: GE Pompey, NY Investigation

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority		Program	Identification Number	Expiration Date
Massachusetts		State	M-NY044	06-30-22
	· · · · · · · · · · · · · · · · · · ·	ort, but the laboratory is not cert	ified by the governing authority. This list ma	y include analytes for which
the agency does not offe	er certification.			
Analysis Method	Prep Method	Matrix	Analyte	
8260C		Water	1,1,1-Trichloroethane	
8260C		Water	1,1,2,2-Tetrachloroethane	
8260C		Water	1,1,2-Trichloro-1,2,2-trifluoroet	hane
8260C		Water	1,1,2-Trichloroethane	
8260C		Water	1,1-Dichloroethane	
8260C		Water	1,1-Dichloroethene	
8260C		Water	1,2,4-Trichlorobenzene	
8260C		Water	1,2-Dibromo-3-Chloropropane	
8260C		Water	1,2-Dibromoethane	
8260C		Water	1,2-Dichlorobenzene	
8260C		Water	1,2-Dichloroethane	
8260C		Water	1,2-Dichloropropane	
8260C		Water	1,3-Dichlorobenzene	
8260C		Water	1,4-Dichlorobenzene	
8260C		Water	2-Butanone (MEK)	
8260C		Water	2-Hexanone	
8260C		Water	4-Methyl-2-pentanone (MIBK)	
8260C		Water	Acetone	
8260C		Water	Benzene	
8260C		Water	Bromodichloromethane	
8260C		Water	Bromoform	
8260C		Water	Bromomethane	
8260C		Water	Carbon disulfide	
8260C		Water	Carbon tetrachloride	
8260C		Water	Chlorobenzene	
8260C		Water	Chloroethane	
8260C		Water	Chloroform	
8260C		Water	Chloromethane	
8260C		Water	cis-1,2-Dichloroethene	
8260C		Water	cis-1,3-Dichloropropene	
8260C		Water	Cyclohexane	
8260C		Water	Dibromochloromethane	
8260C		Water	Dichlorodifluoromethane	
8260C		Water	Ethylbenzene	
8260C		Water	Isopropylbenzene	
8260C		Water	Methyl acetate	
8260C		Water	Methyl tert-butyl ether	
8260C		Water	Methylcyclohexane	
8260C		Water	Methylene Chloride	
8260C		Water	Styrene	
8260C		Water	Tetrachloroethene	
8260C		Water	Toluene	
8260C		Water	trans-1,2-Dichloroethene	
8260C		Water	trans-1,3-Dichloropropene	
8260C		Water	Trichloroethene	

Eurofins Buffalo

Page 20 of 25 4/1/2022

Accreditation/Certification Summary

Client: Tetra Tech GEO Job ID: 480-196137-1

Project/Site: GE Pompey, NY Investigation

Laboratory: Eurofins Buffalo (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	<u>P</u>	rogram	Identification Number	Expiration Date
The following analytes the agency does not of	• •	ut the laboratory is not certif	ied by the governing authority. This list ma	y include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
8260C		Water	Trichlorofluoromethane	
8260C		Water	Vinyl chloride	
8260C		Water	Xylenes, Total	
8270D SIM ID	3510C	Water	1,4-Dioxane	

Method Summary

Client: Tetra Tech GEO Job ID: 480-196137-1

Project/Site: GE Pompey, NY Investigation

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Tetra Tech GEO Job ID: 480-196137-1

Project/Site: GE Pompey, NY Investigation

	011 10 1 10		0 !! . !	
Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-196137-1	Influent	Water	03/24/22 15:55	03/25/22 10:00
480-196137-2	Post Column 1	Water	03/24/22 16:05	03/25/22 10:00
480-196137-3	Post Column 2	Water	03/24/22 16:12	03/25/22 10:00
480-196137-4	Effluent	Water	03/24/22 16:30	03/25/22 10:00
480-196137-5	Trip Blank	Water	03/24/22 00:00	03/25/22 10:00

Euronins Buffalo 10 Hazelwood Drive Amherst, NY 14228-2298 Phone: 716-691-2600 Fax: 716-691-7991	Chê	hain of Custody Record	stody Re	cord	Ċ		eurofins Environment Testing America	sting
Client Information	Sampler Bailey Kudla-Williams	a-willia		Lab PM: Fischer, Brian J	O men parati	9	COC No: 480-169454-36972.4	
Ms. Bailey Kudla-Williams	Phone: 305-805	653		E-Mail: Brian. Fischer@Eurofinset.com	State of Care		() () () () () () () () () () () () () (Γ
Company: Tetra Tech GEO		PWSID:			alvsis Red		**	
Address: 3136 South Winton Road Suite 303	Due Date Requested:					Pre	Preservation Codes:	
City; Rochester	TAT Requested (days):	-				A-HO		
State, Zip: NY, 14623	Compilance Project: Δ	1 dard					0 - AsNaO2 P - Na2O4S	
Phone: 805-501-8053(Tel)				·			C - NA2SO3 R - NA2S2O3 S - H2SO4	
Email: bailey.kudlawilliams@tetratech.com	#OM			(0)		Note: O	T - TSP Dodecahydrate U - Acetone	drate
Project Name: GE Pompey, NY Investigation	Project #: 48023743			N 10 8	480-196137 C		W - PH 4-5 L - EDA Z - other (specify)	
Site:	SSOW#:			6V) G S D - 1,4		unoo t		
	ie.	Sample Type (C=como.	Matrix (wwwater, 8=solid,	d Filtered S form MSrw DC - TCL list		Number o		
Sample Identification	Sample Date Ti	.0	BT=Tissue, A=Air)	728 Z		BJOT	Special Instructions/Note:	
Influent	3-24-22 15	555 (,	Water	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		1		
Post Columni	1	000	Water	< ×		D M		
Post Columna	91	612 6	Water) N		
	10	630 6	Water	×		2		
Trip Blank	1	1	Water	×		-		
			Water					
			Water					
BKW			Water					
			Water					
	1		Water					
Donnikla Hanned Idanita att			Water					
Non-Hazard Plammable Skin Irritant Poison B	son B Unknown	Radiological	ca/	Sample Disposal	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)	amples are retained le	onger than 1 month)	
, III, IV, Other (specify)				Special Instruction	Special Instructions/QC Requirements:	ab Archive	For Months	
Empty Kit Relinquished by:	Date			Time:	Method	Method of Shipment:		
Note that the second se	3-24-12	1825	Company	Received by:	48/11/14	Date/Time:	Company	
Relinquished by:	S - 24-22	1900	Company	Received by:	Monthly Undb	13	1000	
Custody Seals Intact: Custody Seal No			Company	Received by:		Date/Time:	Company	
Δ Yes Δ No				Cooler Temperate	Cooler Temperature(s) °C and Other Remarks:	3,34	「北下	
							Ver. 06/08/2021	

Login Sample Receipt Checklist

Client: Tetra Tech GEO Job Number: 480-196137-1

Login Number: 196137 List Source: Eurofins Buffalo

List Number: 1

Creator: Sabuda, Brendan D

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.3 #1 ICE
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	True	

2

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40

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13

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MARCH 30, 2022 COMLPLETE ANALYTICAL RESULTS



Environment Testing America

ANALYTICAL REPORT

Eurofins Buffalo 10 Hazelwood Drive Amherst, NY 14228-2298 Tel: (716)691-2600

Laboratory Job ID: 480-196310-1

Client Project/Site: GE Pompey, NY Investigation

For:

Tetra Tech GEO 3136 South Winton Road Suite 303 Rochester, New York 14623

Attn: Ms. Bailey Kudla-Williams

The

Authorized for release by: 4/8/2022 12:00:03 PM

Rebecca Jones, Project Management Assistant I Rebecca.Jones@et.eurofinsus.com

Designee for

Brian Fischer, Manager of Project Management (716)504-9835

Brian.Fischer@et.eurofinsus.com

LINKS

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The test results in this report meet all 2003 NELAC, 2009 TNI, and 2016 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Definitions/Glossary

Client: Tetra Tech GEO Job ID: 480-196310-1

Project/Site: GE Pompey, NY Investigation

Qualifiers

GC/MS VOA

Qualifier **Qualifier Description**

MS and/or MSD recovery exceeds control limits.

Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC/MS Semi VOA

Qualifier **Qualifier Description**

Ε Result exceeded calibration range.

Glossary

Abbreviation	These commonly	y used abbreviations may	v or mav not be	present in this report.

n Listed under the "D" column to designate that the result is reported on a dry weight basis

%R Percent Recovery CFL Contains Free Liquid Colony Forming Unit CFU **CNF** Contains No Free Liquid

DER Duplicate Error Ratio (normalized absolute difference)

Dil Fac **Dilution Factor**

DL Detection Limit (DoD/DOE)

DL, RA, RE, IN Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

Decision Level Concentration (Radiochemistry) DLC

EDL Estimated Detection Limit (Dioxin) LOD Limit of Detection (DoD/DOE) Limit of Quantitation (DoD/DOE) LOQ

MCL EPA recommended "Maximum Contaminant Level" Minimum Detectable Activity (Radiochemistry) MDA MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit ML Minimum Level (Dioxin) MPN Most Probable Number MQL Method Quantitation Limit

Not Calculated NC

Not Detected at the reporting limit (or MDL or EDL if shown) ND

NEG Negative / Absent POS Positive / Present

PQL Practical Quantitation Limit

PRES Presumptive QC **Quality Control**

RER Relative Error Ratio (Radiochemistry)

RLReporting Limit or Requested Limit (Radiochemistry)

Relative Percent Difference, a measure of the relative difference between two points **RPD**

Toxicity Equivalent Factor (Dioxin) TEF Toxicity Equivalent Quotient (Dioxin) **TEQ**

TNTC Too Numerous To Count

Eurofins Buffalo

4/8/2022

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Case Narrative

Client: Tetra Tech GEO

Job ID: 480-196310-1 Project/Site: GE Pompey, NY Investigation

Job ID: 480-196310-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative 480-196310-1

Comments

No additional comments.

Receipt

The samples were received on 4/1/2022 8:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.2° C.

GC/MS VOA

Method 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: INFLUENT (480-196310-1), (480-196310-C-1 MS) and (480-196310-C-1 MSD). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270D SIM ID: The 1,4-Dioxane result reported for sample POST COLUMN 2 (480-196310-3) have an E flag qualifier indicating the results are over the calibration range on the raw data. The actual amounts are within the calibration range; however, the E flag is generated based upon the bias corrected concentration. The LIMS system calculates a bias correction based on the recovery of the 1.4-Dioxane-d8 isotope.

Method 8270D SIM ID: The following samples were diluted to bring the concentration of target analytes within the calibration range: INFLUENT (480-196310-1) and POST COLUMN 1 (480-196310-2). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Tetra Tech GEO Job ID: 480-196310-1

Project/Site: GE Pompey, NY Investigation

Client Sample ID: INFLUENT	Lab Sample ID: 480-196310-1
----------------------------	-----------------------------

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
1,1-Dichloroethane	12	4.0	1.5 ug/L	4	8260C	Total/NA
cis-1,2-Dichloroethene	99 F1	4.0	3.2 ug/L	4	8260C	Total/NA
Vinyl chloride	5.3	4.0	3.6 ug/L	4	8260C	Total/NA
1,4-Dioxane	70	1.0	0.50 ug/L	5	8270D SIM ID	Total/NA

Client Sample ID: POST COLUMN 1

Client Sample ID: POS	T COLUMN 1		Lab	Sample ID: 4	80-196310-2		
Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D Method	Prep Type
1,4-Dioxane	81	1.0	0.50	ug/L	5	8270D SIM ID	Total/NA

Client Sample ID: POST COLUMN 2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	5.7	J	10	1.3	ug/L	1		8260C	Total/NA
Acetone	4.4	J	10	3.0	ug/L	1		8260C	Total/NA
1,4-Dioxane	49	E	0.20	0.10	ug/L	1		8270D SIM ID	Total/NA

Client Sample ID: EFFLUENT

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
1,4-Dioxane	1.9	0.20	0.10 ug/L	1	8270D SIM ID	Total/NA

Client Sample ID: TRIP BLANK

No Detections.

Lab Sample ID: 480-196310-3

Lab Sample ID: 480-196310-4

Lab Sample ID: 480-196310-5

Client: Tetra Tech GEO Job ID: 480-196310-1

Project/Site: GE Pompey, NY Investigation

Client Sample ID: INFLUENT

Date Received: 04/01/22 08:00

Lab Sample ID: 480-196310-1 Date Collected: 03/30/22 17:35

Matrix: Water

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil
,1,1-Trichloroethane	ND —	4.0	3.3	ug/L			04/02/22 18:27	
,1,2,2-Tetrachloroethane	ND	4.0	0.84	ug/L			04/02/22 18:27	
,1,2-Trichloroethane	ND	4.0	0.92	ug/L			04/02/22 18:27	
,1,2-Trichloro-1,2,2-trifluoroethane	ND	4.0	1.2	ug/L			04/02/22 18:27	
1,1-Dichloroethane	12	4.0	1.5	ug/L			04/02/22 18:27	
,1-Dichloroethene	ND	4.0	1.2	ug/L			04/02/22 18:27	
1,2,4-Trichlorobenzene	ND	4.0	1.6	ug/L			04/02/22 18:27	
,2-Dibromo-3-Chloropropane	ND	4.0	1.6	ug/L			04/02/22 18:27	
,2-Dichlorobenzene	ND	4.0	3.2	ug/L			04/02/22 18:27	
,2-Dichloroethane	ND	4.0	0.84	ug/L			04/02/22 18:27	
,2-Dichloropropane	ND	4.0	2.9	ug/L			04/02/22 18:27	
,3-Dichlorobenzene	ND	4.0	3.1	ug/L			04/02/22 18:27	
,4-Dichlorobenzene	ND	4.0	3.4	ug/L			04/02/22 18:27	
?-Butanone (MEK)	ND	40	5.3	ug/L			04/02/22 18:27	
2-Hexanone	ND	20	5.0	ug/L			04/02/22 18:27	
-Methyl-2-pentanone (MIBK)	ND	20	8.4	ug/L			04/02/22 18:27	
Acetone	ND	40		ug/L			04/02/22 18:27	
Benzene	ND	4.0		ug/L			04/02/22 18:27	
Bromodichloromethane	ND	4.0		ug/L			04/02/22 18:27	
romoform	ND	4.0		ug/L			04/02/22 18:27	
romomethane	ND	4.0		ug/L			04/02/22 18:27	
arbon disulfide	ND	4.0		ug/L			04/02/22 18:27	
arbon tetrachloride	ND	4.0		ug/L			04/02/22 18:27	
hlorobenzene	ND	4.0		ug/L			04/02/22 18:27	
ibromochloromethane	ND	4.0		ug/L			04/02/22 18:27	
hloroethane	ND	4.0		ug/L			04/02/22 18:27	
hloroform	ND	4.0		ug/L			04/02/22 18:27	
hloromethane	ND	4.0		ug/L			04/02/22 18:27	
is-1,2-Dichloroethene	99 F1	4.0		ug/L			04/02/22 18:27	
s-1,3-Dichloropropene	ND	4.0		ug/L			04/02/22 18:27	
yclohexane	ND	4.0		ug/L			04/02/22 18:27	
ichlorodifluoromethane	ND	4.0		ug/L			04/02/22 18:27	
thylbenzene	ND	4.0		ug/L			04/02/22 18:27	
,2-Dibromoethane	ND	4.0		ug/L			04/02/22 18:27	
sopropylbenzene	ND	4.0		ug/L			04/02/22 18:27	
lethyl acetate	ND	10		ug/L			04/02/22 18:27	
lethyl tert-butyl ether	ND	4.0		ug/L			04/02/22 18:27	
lethylcyclohexane	ND	4.0		ug/L			04/02/22 18:27	
lethylene Chloride	ND	4.0		ug/L			04/02/22 18:27	
tyrene	ND	4.0		ug/L			04/02/22 18:27	
etrachloroethene	ND	4.0		ug/L			04/02/22 18:27	
oluene	ND	4.0		ug/L ug/L			04/02/22 18:27	
ans-1,2-Dichloroethene	ND ND	4.0		ug/L ug/L			04/02/22 18:27	
ans-1,3-Dichloropropene	ND ND	4.0		ug/L ug/L			04/02/22 18:27	
richloroethene	ND ND	4.0		ug/L ug/L			04/02/22 18:27	
							04/02/22 18:27	
richlorofluoromethane	ND	4.0		ug/L				
/inyl chloride (ylenes, Total	5.3 ND	4.0 8.0		ug/L ug/L			04/02/22 18:27 04/02/22 18:27	

Eurofins Buffalo

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Client: Tetra Tech GEO Job ID: 480-196310-1

Project/Site: GE Pompey, NY Investigation

Client Sample ID: INFLUENT

Lab Sample ID: 480-196310-1 Date Collected: 03/30/22 17:35

Matrix: Water

Date Received: 04/01/22 08:00

,	Surrogate	%Recovery	Qualifier	Limits	Prepare	ed Analyzed	Dil Fac
7	Toluene-d8 (Surr)	105		80 - 120		04/02/22 18:27	7 4
	1,2-Dichloroethane-d4 (Surr)	112		77 - 120		04/02/22 18:27	4
.	4-Bromofluorobenzene (Surr)	103		73 - 120		04/02/22 18:27	4
L	Dibromofluoromethane (Surr)	102		75 - 123		04/02/22 18:27	4

Method: 8270D SIM ID - Semivolati	le Organic C	ompounds (GC/MS SIM / I	sotope D	ilution)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	70		1.0	0.50	ug/L		04/01/22 15:29	04/07/22 14:19	5
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	27		15 - 110				04/01/22 15:29	04/07/22 14:19	5

Client Sample ID: POST COLUMN 1

Lab Sample ID: 480-196310-2 Date Collected: 03/30/22 17:45 Matrix: Water

Date Received: 04/01/22 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/02/22 18:50	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			04/02/22 18:50	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			04/02/22 18:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			04/02/22 18:50	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			04/02/22 18:50	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			04/02/22 18:50	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			04/02/22 18:50	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			04/02/22 18:50	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			04/02/22 18:50	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/02/22 18:50	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			04/02/22 18:50	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			04/02/22 18:50	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			04/02/22 18:50	1
2-Butanone (MEK)	ND		10	1.3	ug/L			04/02/22 18:50	1
2-Hexanone	ND		5.0	1.2	ug/L			04/02/22 18:50	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			04/02/22 18:50	1
Acetone	ND		10	3.0	ug/L			04/02/22 18:50	1
Benzene	ND		1.0	0.41	ug/L			04/02/22 18:50	1
Bromodichloromethane	ND		1.0	0.39	ug/L			04/02/22 18:50	1
Bromoform	ND		1.0	0.26	ug/L			04/02/22 18:50	1
Bromomethane	ND		1.0	0.69	ug/L			04/02/22 18:50	1
Carbon disulfide	ND		1.0	0.19	ug/L			04/02/22 18:50	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			04/02/22 18:50	1
Chlorobenzene	ND		1.0	0.75	ug/L			04/02/22 18:50	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/02/22 18:50	1
Chloroethane	ND		1.0	0.32	ug/L			04/02/22 18:50	1
Chloroform	ND		1.0	0.34	ug/L			04/02/22 18:50	1
Chloromethane	ND		1.0	0.35	ug/L			04/02/22 18:50	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			04/02/22 18:50	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			04/02/22 18:50	1
Cyclohexane	ND		1.0	0.18	ug/L			04/02/22 18:50	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			04/02/22 18:50	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/02/22 18:50	1

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Client: Tetra Tech GEO Job ID: 480-196310-1

Project/Site: GE Pompey, NY Investigation

Client Sample ID: POST COLUMN 1

Lab Sample ID: 480-196310-2 Date Collected: 03/30/22 17:45 Matrix: Water

Date Received: 04/01/22 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	MD		1.0	0.73	ug/L			04/02/22 18:50	1
Isopropylbenzene	ND		1.0	0.79	ug/L			04/02/22 18:50	1
Methyl acetate	ND		2.5	1.3	ug/L			04/02/22 18:50	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/02/22 18:50	1
Methylcyclohexane	ND		1.0	0.16	ug/L			04/02/22 18:50	1
Methylene Chloride	ND		1.0	0.44	ug/L			04/02/22 18:50	1
Styrene	ND		1.0	0.73	ug/L			04/02/22 18:50	1
Tetrachloroethene	ND		1.0	0.36	ug/L			04/02/22 18:50	1
Toluene	ND		1.0	0.51	ug/L			04/02/22 18:50	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/02/22 18:50	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			04/02/22 18:50	1
Trichloroethene	ND		1.0	0.46	ug/L			04/02/22 18:50	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			04/02/22 18:50	1
Vinyl chloride	ND		1.0	0.90	ug/L			04/02/22 18:50	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/02/22 18:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	98		80 - 120			_		04/02/22 18:50	1
1,2-Dichloroethane-d4 (Surr)	101		77 - 120					04/02/22 18:50	1
4-Bromofluorobenzene (Surr)	98		73 - 120					04/02/22 18:50	1
Dibromofluoromethane (Surr)	93		75 - 123					04/02/22 18:50	1

Method: 8270D SIM ID - Semivolati	le Organic C	ompounds (GC/MS SIM / Is	sotope D	ilution)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	81		1.0	0.50	ug/L		04/01/22 16:00	04/07/22 14:42	5
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	23		15 - 110				04/01/22 16:00	04/07/22 14:42	5

Client Sample ID: POST COLUMN 2

Lab Sample ID: 480-196310-3 Date Collected: 03/30/22 17:53 Matrix: Water

Date Received: 04/01/22 08:00

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND ND	1.0	0.82	ug/L			04/02/22 19:13	1
1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/L			04/02/22 19:13	1
1,1,2-Trichloroethane	ND	1.0	0.23	ug/L			04/02/22 19:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	0.31	ug/L			04/02/22 19:13	1
1,1-Dichloroethane	ND	1.0	0.38	ug/L			04/02/22 19:13	1
1,1-Dichloroethene	ND	1.0	0.29	ug/L			04/02/22 19:13	1
1,2,4-Trichlorobenzene	ND	1.0	0.41	ug/L			04/02/22 19:13	1
1,2-Dibromo-3-Chloropropane	ND	1.0	0.39	ug/L			04/02/22 19:13	1
1,2-Dichlorobenzene	ND	1.0	0.79	ug/L			04/02/22 19:13	1
1,2-Dichloroethane	ND	1.0	0.21	ug/L			04/02/22 19:13	1
1,2-Dichloropropane	ND	1.0	0.72	ug/L			04/02/22 19:13	1
1,3-Dichlorobenzene	ND	1.0	0.78	ug/L			04/02/22 19:13	1
1,4-Dichlorobenzene	ND	1.0	0.84	ug/L			04/02/22 19:13	1
2-Butanone (MEK)	5.7 J	10	1.3	ug/L			04/02/22 19:13	1
2-Hexanone	ND	5.0	1.2	ug/L			04/02/22 19:13	1
4-Methyl-2-pentanone (MIBK)	ND	5.0	2.1	ug/L			04/02/22 19:13	1

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Client: Tetra Tech GEO Job ID: 480-196310-1

Project/Site: GE Pompey, NY Investigation

Client Sample ID: POST COLUMN 2

Lab Sample ID: 480-196310-3 Date Collected: 03/30/22 17:53 Matrix: Water

Date Received: 04/01/22 08:00

Analyte	Result C	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	4.4 J	J	10	3.0	ug/L			04/02/22 19:13	1
Benzene	ND		1.0	0.41	ug/L			04/02/22 19:13	1
Bromodichloromethane	ND		1.0	0.39	ug/L			04/02/22 19:13	1
Bromoform	ND		1.0	0.26	ug/L			04/02/22 19:13	1
Bromomethane	ND		1.0	0.69	ug/L			04/02/22 19:13	1
Carbon disulfide	ND		1.0	0.19	ug/L			04/02/22 19:13	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			04/02/22 19:13	1
Chlorobenzene	ND		1.0	0.75	ug/L			04/02/22 19:13	1
Dibromochloromethane	ND		1.0	0.32	ug/L			04/02/22 19:13	1
Chloroethane	ND		1.0	0.32	ug/L			04/02/22 19:13	1
Chloroform	ND		1.0	0.34	ug/L			04/02/22 19:13	1
Chloromethane	ND		1.0	0.35	ug/L			04/02/22 19:13	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			04/02/22 19:13	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			04/02/22 19:13	1
Cyclohexane	ND		1.0	0.18	ug/L			04/02/22 19:13	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			04/02/22 19:13	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/02/22 19:13	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			04/02/22 19:13	1
Isopropylbenzene	ND		1.0	0.79	ug/L			04/02/22 19:13	1
Methyl acetate	ND		2.5	1.3	ug/L			04/02/22 19:13	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/02/22 19:13	1
Methylcyclohexane	ND		1.0	0.16	ug/L			04/02/22 19:13	1
Methylene Chloride	ND		1.0	0.44	ug/L			04/02/22 19:13	1
Styrene	ND		1.0	0.73	ug/L			04/02/22 19:13	1
Tetrachloroethene	ND		1.0	0.36	ug/L			04/02/22 19:13	1
Toluene	ND		1.0	0.51	ug/L			04/02/22 19:13	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/02/22 19:13	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			04/02/22 19:13	1
Trichloroethene	ND		1.0	0.46	ug/L			04/02/22 19:13	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			04/02/22 19:13	1
Vinyl chloride	ND		1.0	0.90	ug/L			04/02/22 19:13	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/02/22 19:13	1
Surrogate	%Recovery 0	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		80 - 120			_		04/02/22 19:13	1
1,2-Dichloroethane-d4 (Surr)	102		77 - 120					04/02/22 19:13	1
4-Bromofluorobenzene (Surr)	101		73 - 120					04/02/22 19:13	1
Dibromofluoromethane (Surr)	97		75 - 123					04/02/22 19:13	1

Method: 8270D SIM ID - S	Semivolatile Organic C	ompounds	(GC/MS SIM / Is	sotope D	ilution)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	49	E	0.20	0.10	ug/L		04/01/22 15:29	04/06/22 21:28	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	23		15 - 110				04/01/22 15:29	04/06/22 21:28	1

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Client: Tetra Tech GEO Job ID: 480-196310-1

Project/Site: GE Pompey, NY Investigation

Client Sample ID: EFFLUENT

Lab Sample ID: 480-196310-4 Date Collected: 03/30/22 18:05

Matrix: Water

Method: 8260C - Volatile Organic (•===		_	_		 -
Analyte	Result Qualific			Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	1.0	0.82				04/02/22 19:38	
1,1,2,2-Tetrachloroethane	ND	1.0	0.21				04/02/22 19:38	
1,1,2-Trichloroethane	ND	1.0	0.23				04/02/22 19:38	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	0.31				04/02/22 19:38	
1,1-Dichloroethane	ND	1.0	0.38	•			04/02/22 19:38	,
1,1-Dichloroethene	ND	1.0	0.29				04/02/22 19:38	
1,2,4-Trichlorobenzene	ND	1.0		ug/L			04/02/22 19:38	,
1,2-Dibromo-3-Chloropropane	ND	1.0	0.39	-			04/02/22 19:38	,
1,2-Dichlorobenzene	ND	1.0		ug/L			04/02/22 19:38	
1,2-Dichloroethane	ND	1.0	0.21	-			04/02/22 19:38	,
1,2-Dichloropropane	ND	1.0	0.72	_			04/02/22 19:38	•
1,3-Dichlorobenzene	ND	1.0	0.78	ug/L			04/02/22 19:38	
1,4-Dichlorobenzene	ND	1.0		ug/L			04/02/22 19:38	•
2-Butanone (MEK)	ND	10		ug/L			04/02/22 19:38	•
2-Hexanone	ND	5.0		ug/L			04/02/22 19:38	
4-Methyl-2-pentanone (MIBK)	ND	5.0		ug/L			04/02/22 19:38	,
Acetone	ND	10	3.0	ug/L			04/02/22 19:38	,
Benzene	ND	1.0	0.41	ug/L			04/02/22 19:38	
Bromodichloromethane	ND	1.0	0.39	ug/L			04/02/22 19:38	•
Bromoform	ND	1.0	0.26	ug/L			04/02/22 19:38	•
Bromomethane	ND	1.0	0.69	ug/L			04/02/22 19:38	
Carbon disulfide	ND	1.0	0.19	ug/L			04/02/22 19:38	•
Carbon tetrachloride	ND	1.0	0.27	ug/L			04/02/22 19:38	,
Chlorobenzene	ND	1.0	0.75	ug/L			04/02/22 19:38	,
Dibromochloromethane	ND	1.0	0.32	ug/L			04/02/22 19:38	•
Chloroethane	ND	1.0	0.32	ug/L			04/02/22 19:38	•
Chloroform	ND	1.0	0.34	ug/L			04/02/22 19:38	•
Chloromethane	ND	1.0	0.35	ug/L			04/02/22 19:38	
cis-1,2-Dichloroethene	ND	1.0	0.81	ug/L			04/02/22 19:38	
cis-1,3-Dichloropropene	ND	1.0	0.36	ug/L			04/02/22 19:38	•
Cyclohexane	ND	1.0	0.18	ug/L			04/02/22 19:38	,
Dichlorodifluoromethane	ND	1.0	0.68	ug/L			04/02/22 19:38	,
Ethylbenzene	ND	1.0	0.74	ug/L			04/02/22 19:38	
1,2-Dibromoethane	ND	1.0	0.73	ug/L			04/02/22 19:38	
Isopropylbenzene	ND	1.0	0.79	ug/L			04/02/22 19:38	
Methyl acetate	ND	2.5		ug/L			04/02/22 19:38	
Methyl tert-butyl ether	ND	1.0		ug/L			04/02/22 19:38	
Methylcyclohexane	ND	1.0		ug/L			04/02/22 19:38	
Methylene Chloride	ND	1.0		ug/L			04/02/22 19:38	
Styrene	ND	1.0		ug/L			04/02/22 19:38	
Tetrachloroethene	ND	1.0		ug/L			04/02/22 19:38	
Toluene	ND	1.0	0.51	-			04/02/22 19:38	
trans-1,2-Dichloroethene	ND	1.0		ug/L			04/02/22 19:38	
trans-1,3-Dichloropropene	ND	1.0		ug/L			04/02/22 19:38	,
Trichloroethene	ND	1.0	0.46	•			04/02/22 19:38	,
Trichlorofluoromethane	ND ND	1.0	0.40				04/02/22 19:38	,
Vinyl chloride	ND	1.0		ug/L			04/02/22 19:38	,
Xylenes, Total	ND ND	2.0		ug/L ug/L			04/02/22 19:38	,

Client: Tetra Tech GEO Job ID: 480-196310-1

Project/Site: GE Pompey, NY Investigation

Client Sample ID: EFFLUENT

Date Received: 04/01/22 08:00

Lab Sample ID: 480-196310-4 Date Collected: 03/30/22 18:05

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared Analy.	zed Dil Fac
Toluene-d8 (Surr)	101		80 - 120	04/02/22	19:38 1
1,2-Dichloroethane-d4 (Surr)	101		77 - 120	04/02/22	19:38 1
4-Bromofluorobenzene (Surr)	97		73 - 120	04/02/22	19:38 1
Dibromofluoromethane (Surr)	94		75 - 123	04/02/22	19:38 1

Method: 8270D SIM ID - S	Semivolatile Organic C	ompounds	(GC/MS SIM / Is	sotope D	ilution)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	1.9		0.20	0.10	ug/L		04/01/22 15:29	04/06/22 21:51	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	27		15 - 110				04/01/22 15:29	04/06/22 21:51	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-196310-5 Date Collected: 03/30/22 00:00 Matrix: Water

Date Received: 04/01/22 08:00

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND -	1.0	0.82	ug/L			04/02/22 20:03	1
1,1,2,2-Tetrachloroethane	ND	1.0	0.21	ug/L			04/02/22 20:03	1
1,1,2-Trichloroethane	ND	1.0	0.23	ug/L			04/02/22 20:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	0.31	ug/L			04/02/22 20:03	1
1,1-Dichloroethane	ND	1.0	0.38	ug/L			04/02/22 20:03	1
1,1-Dichloroethene	ND	1.0	0.29	ug/L			04/02/22 20:03	1
1,2,4-Trichlorobenzene	ND	1.0	0.41	ug/L			04/02/22 20:03	1
1,2-Dibromo-3-Chloropropane	ND	1.0	0.39	ug/L			04/02/22 20:03	1
1,2-Dichlorobenzene	ND	1.0	0.79	ug/L			04/02/22 20:03	1
1,2-Dichloroethane	ND	1.0	0.21	ug/L			04/02/22 20:03	1
1,2-Dichloropropane	ND	1.0	0.72	ug/L			04/02/22 20:03	1
1,3-Dichlorobenzene	ND	1.0	0.78	ug/L			04/02/22 20:03	1
1,4-Dichlorobenzene	ND	1.0	0.84	ug/L			04/02/22 20:03	1
2-Butanone (MEK)	ND	10	1.3	ug/L			04/02/22 20:03	1
2-Hexanone	ND	5.0	1.2	ug/L			04/02/22 20:03	1
4-Methyl-2-pentanone (MIBK)	ND	5.0	2.1	ug/L			04/02/22 20:03	1
Acetone	ND	10	3.0	ug/L			04/02/22 20:03	1
Benzene	ND	1.0	0.41	ug/L			04/02/22 20:03	1
Bromodichloromethane	ND	1.0	0.39	ug/L			04/02/22 20:03	1
Bromoform	ND	1.0	0.26	ug/L			04/02/22 20:03	1
Bromomethane	ND	1.0	0.69	ug/L			04/02/22 20:03	1
Carbon disulfide	ND	1.0	0.19	ug/L			04/02/22 20:03	1
Carbon tetrachloride	ND	1.0	0.27	ug/L			04/02/22 20:03	1
Chlorobenzene	ND	1.0	0.75	ug/L			04/02/22 20:03	1
Dibromochloromethane	ND	1.0	0.32	ug/L			04/02/22 20:03	1
Chloroethane	ND	1.0	0.32	ug/L			04/02/22 20:03	1
Chloroform	ND	1.0	0.34	ug/L			04/02/22 20:03	1
Chloromethane	ND	1.0	0.35	ug/L			04/02/22 20:03	1
cis-1,2-Dichloroethene	ND	1.0	0.81	ug/L			04/02/22 20:03	1
cis-1,3-Dichloropropene	ND	1.0	0.36	ug/L			04/02/22 20:03	1
Cyclohexane	ND	1.0	0.18	ug/L			04/02/22 20:03	1
Dichlorodifluoromethane	ND	1.0	0.68	ug/L			04/02/22 20:03	1
Ethylbenzene	ND	1.0	0.74	ug/L			04/02/22 20:03	1

Client: Tetra Tech GEO Job ID: 480-196310-1

Project/Site: GE Pompey, NY Investigation

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-196310-5

Matrix: Water

Date Collected: 03/30/22 00:00 Date Received: 04/01/22 08:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		1.0	0.73	ug/L			04/02/22 20:03	1
Isopropylbenzene	ND		1.0	0.79	ug/L			04/02/22 20:03	1
Methyl acetate	ND		2.5	1.3	ug/L			04/02/22 20:03	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/02/22 20:03	1
Methylcyclohexane	ND		1.0	0.16	ug/L			04/02/22 20:03	1
Methylene Chloride	ND		1.0	0.44	ug/L			04/02/22 20:03	1
Styrene	ND		1.0	0.73	ug/L			04/02/22 20:03	1
Tetrachloroethene	ND		1.0	0.36	ug/L			04/02/22 20:03	1
Toluene	ND		1.0	0.51	ug/L			04/02/22 20:03	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/02/22 20:03	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			04/02/22 20:03	1
Trichloroethene	ND		1.0	0.46	ug/L			04/02/22 20:03	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			04/02/22 20:03	1
Vinyl chloride	ND		1.0	0.90	ug/L			04/02/22 20:03	1
Xylenes, Total	ND		2.0	0.66	ug/L			04/02/22 20:03	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120			-		04/02/22 20:03	1
1,2-Dichloroethane-d4 (Surr)	105		77 - 120					04/02/22 20:03	1
4-Bromofluorobenzene (Surr)	98		73 - 120					04/02/22 20:03	1
Dibromofluoromethane (Surr)	95		75 - 123					04/02/22 20:03	1

Surrogate Summary

Client: Tetra Tech GEO Job ID: 480-196310-1

Project/Site: GE Pompey, NY Investigation

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water Prep Type: Total/NA

				Percent Su	rrogate Rec
		TOL	DCA	BFB	DBFM
Lab Sample ID	Client Sample ID	(80-120)	(77-120)	(73-120)	(75-123)
480-196310-1	INFLUENT	105	112	103	102
480-196310-1 MS	INFLUENT	100	105	104	95
480-196310-1 MSD	INFLUENT	100	103	97	93
480-196310-2	POST COLUMN 1	98	101	98	93
480-196310-3	POST COLUMN 2	101	102	101	97
480-196310-4	EFFLUENT	101	101	97	94
480-196310-5	TRIP BLANK	102	105	98	95
LCS 480-620181/4	Lab Control Sample	99	104	97	101
MB 480-620181/6	Method Blank	100	103	100	102

TOL = Toluene-d8 (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

Isotope Dilution Summary

Client: Tetra Tech GEO Job ID: 480-196310-1

Project/Site: GE Pompey, NY Investigation

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water Prep Type: Total/NA

			Percent Isotope Dilution Recovery (Acceptance Limits)
		DXE	
Lab Sample ID	Client Sample ID	(15-110)	
480-196310-1	INFLUENT	27	
480-196310-2	POST COLUMN 1	23	
480-196310-3	POST COLUMN 2	23	
480-196310-4	EFFLUENT	27	
LCS 480-620117/2-A	Lab Control Sample	34	
LCSD 480-620117/3-A	Lab Control Sample Dup	35	
MB 480-620117/1-A	Method Blank	38	
Surrogate Legend			

Client: Tetra Tech GEO Job ID: 480-196310-1

Project/Site: GE Pompey, NY Investigation

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-620181/6

Matrix: Water

Analysis Batch: 620181

Client Sample ID: Method Blank
Prep Type: Total/NA

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Prep Type: Total/NA	

6

7

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12

14

		MB					_		
Analyte		Qualifier	RL		Unit	D	Prepared	Analyzed	Dil Fa
1,1,1-Trichloroethane	ND		1.0		ug/L			04/02/22 15:28	
1,1,2,2-Tetrachloroethane	ND		1.0		ug/L			04/02/22 15:28	
1,1,2-Trichloroethane	ND		1.0		ug/L			04/02/22 15:28	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0		ug/L			04/02/22 15:28	
1,1-Dichloroethane	ND		1.0	0.38	ug/L			04/02/22 15:28	
1,1-Dichloroethene	ND		1.0	0.29	ug/L			04/02/22 15:28	
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			04/02/22 15:28	
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			04/02/22 15:28	
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			04/02/22 15:28	
1,2-Dichloroethane	ND		1.0	0.21	ug/L			04/02/22 15:28	
1,2-Dichloropropane	ND		1.0	0.72	ug/L			04/02/22 15:28	
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			04/02/22 15:28	
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			04/02/22 15:28	
2-Butanone (MEK)	ND		10	1.3	ug/L			04/02/22 15:28	
2-Hexanone	ND		5.0	1.2	ug/L			04/02/22 15:28	
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			04/02/22 15:28	
Acetone	ND		10	3.0	ug/L			04/02/22 15:28	
Benzene	ND		1.0		ug/L			04/02/22 15:28	
Bromodichloromethane	ND		1.0		ug/L			04/02/22 15:28	
Bromoform	ND		1.0		ug/L			04/02/22 15:28	
Bromomethane	ND		1.0		ug/L			04/02/22 15:28	
Carbon disulfide	ND		1.0		ug/L			04/02/22 15:28	
Carbon tetrachloride	ND		1.0		ug/L			04/02/22 15:28	
Chlorobenzene	ND		1.0		ug/L			04/02/22 15:28	
Dibromochloromethane	ND ND		1.0		ug/L			04/02/22 15:28	
Chloroethane	ND		1.0		-			04/02/22 15:28	
Chloroform	ND ND		1.0		ug/L			04/02/22 15:28	
					ug/L				
Chloromethane	ND		1.0		ug/L			04/02/22 15:28	
cis-1,2-Dichloroethene	ND		1.0		ug/L			04/02/22 15:28	
cis-1,3-Dichloropropene	ND		1.0		ug/L			04/02/22 15:28	
Cyclohexane	ND		1.0		ug/L			04/02/22 15:28	
Dichlorodifluoromethane	ND		1.0		ug/L			04/02/22 15:28	
Ethylbenzene	ND		1.0		ug/L			04/02/22 15:28	
1,2-Dibromoethane	ND		1.0		ug/L			04/02/22 15:28	
Isopropylbenzene	ND		1.0		ug/L			04/02/22 15:28	
Methyl acetate	ND		2.5		ug/L			04/02/22 15:28	
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			04/02/22 15:28	
Methylcyclohexane	ND		1.0	0.16	ug/L			04/02/22 15:28	
Methylene Chloride	ND		1.0	0.44	ug/L			04/02/22 15:28	
Styrene	ND		1.0	0.73	ug/L			04/02/22 15:28	
Tetrachloroethene	ND		1.0	0.36	ug/L			04/02/22 15:28	
Toluene	ND		1.0	0.51	ug/L			04/02/22 15:28	
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/02/22 15:28	
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			04/02/22 15:28	
Trichloroethene	ND		1.0	0.46	ug/L			04/02/22 15:28	
Trichlorofluoromethane	ND		1.0	0.88	ug/L			04/02/22 15:28	
Vinyl chloride	ND		1.0		ug/L			04/02/22 15:28	
Xylenes, Total	ND		2.0		ug/L			04/02/22 15:28	

Client: Tetra Tech GEO Job ID: 480-196310-1

Project/Site: GE Pompey, NY Investigation

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: MB 480-620181/6

Matrix: Water

Analysis Batch: 620181

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		80 - 120		04/02/22 15:28	1
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		04/02/22 15:28	1
4-Bromofluorobenzene (Surr)	100		73 - 120		04/02/22 15:28	1
Dibromofluoromethane (Surr)	102		75 - 123		04/02/22 15:28	1

Lab Sample ID: LCS 480-620181/4 **Client Sample ID: Lab Control Sample**

Matrix: Water

Analysis Batch: 620181

Prep Type: Total/NA

Analyse Added Result Value Units b *Received Limits 1.1.1-Trichtoroethane 25.0 24.6 ugl. 98.8 75.126 1.1.2-Trichtoroethane 25.0 23.9 ugl. 98.8 76.120 1.1.2-Trichtoroethane 25.0 23.9 ugl. 98.8 76.120 1.1.Dichloroethane 25.0 28.1 ugl. 98.8 77.120 1.1.Dichloroethane 25.0 24.1 ugl. 96.6 66.127 1.2.Dichloroethane 25.0 24.2 ugl. 96.8 66.134 1.2.Dichloroethane 25.0 24.2 ugl. 96.8 56.14 1.2.Dichloroethane 25.0 24.1 ugl. 96.8 56.14 1.2.Dichloroethane 25.0 23.1 ugl. 96.8 56.12 1.2.Dichloroethane 25.0 23.1 ugl. 96.8 56.12 1.2.Dichloroethane 25.0 24.1 ugl. 97.7 77.10		Spike	LCS	LCS				%Rec	
1.1.2.2-Tetrachioroethane 25.0 24.6 ugl. 98 76.120 1.1.2-Tichioroethane 25.0 23.9 ugl. 98 76.122 1.1.2-Tichioroethane 25.0 23.3 ugl. 98 76.122 1.1-Dichioroethane 25.0 22.0 ugl. 92 27.100 1.1-Dichioroethane 25.0 24.1 ugl. 96 66.127 1.2-Dichioroethane 25.0 24.2 ugl. 97 79.122 1.2-Dichioroethane 25.0 24.1 ugl. 96 66.134 1.2-Dichioroethane 25.0 23.1 ugl. 96 76.120 1.2-Dichioroethane 25.0 23.1 ugl. 96 76.120 1.2-Dichioroethane 25.0 23.1 ugl. 97 77.120 1.3-Dichioroethane 25.0 23.1 ugl. 97 77.120 1.3-Dichioroethane 25.0 23.1 ugl. 96 76.120 1.3-Dichioroethane 25.0 23.0 ugl. 97 77.120 2-Butanne (MEK)	Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1.1,2-Trichloroethane 25.0 23.9 ugil. 96 76.122 1.1,2-Trichloro-1,2,2-trifluoroethan 25.0 23.3 ugil. 98 76.122 1.1-Dichloroethane 25.0 23.0 ugil. 99 77.120 1.1-Dichloroethane 25.0 24.1 ugil. 96 66.127 1.2-Dichloroethane 25.0 24.2 ugil. 97 79-122 1.2-Dichloroethane 25.0 23.7 ugil. 96 56.134 1.2-Dichloroethane 25.0 23.1 ugil. 96 75.120 1.2-Dichloroethane 25.0 23.1 ugil. 97 77.120 1.2-Dichloroethane 25.0 23.1 ugil. 97 77.120 1.2-Dichloroethane 25.0 24.2 ugil. 97 77.120 1.2-Dichloroethane 25.0 24.1 ugil. 98 80.124 1.2-Dichloroethane 25.0 23.9 ugil. 97 77.120 1.4-Dichlo	1,1,1-Trichloroethane	25.0	24.6		ug/L		98	73 - 126	
1,1,2-Trichioro-1,2,2-trifluoroethan 25.0 23.3 ugil. 39. 61.148 ne 1,1-blichioroethane 25.0 23.0 ugil. 39. 77.120 1,1-blichioroethane 25.0 24.1 ugil. 39. 68.127 1,1-blichioroethene 25.0 24.1 ugil. 39. 68.127 1,2-blichioroethene 25.0 24.0 ugil. 39. 56.134 1,2-blichioroethane 25.0 24.0 ugil. 39. 56.134 1,2-blichioroethane 25.0 23.7 ugil. 39. 80.124 1,2-blichioroethane 25.0 23.1 ugil. 39. 77.120 1,2-blichioroethane 25.0 23.1 ugil. 39. 77.120 1,3-blichioroethane 25.0 24.2 ugil. 39. 77.120 1,3-blichioroethane 25.0 24.2 ugil. 39. 77.120 1,3-blichioroethane 25.0 29.9 ugil. 39. 80.120 1,3-blichioroethane 25.0 29.9 ugil. 39. 66.5127 1,4-blichioroethane 25.0 29.9 ugil. 39. 66.5127 1,4-blichioroethane 25.0 29.9 ugil. 39. 66.5127 1,4-blichioroethane 25.0 28.8 ugil. 39. 71.125 1,124 1,124 1,125 1,125 1,124 1,124 1,125 1,1	1,1,2,2-Tetrachloroethane	25.0	24.6		ug/L		98	76 - 120	
Name	1,1,2-Trichloroethane	25.0	23.9		ug/L		96	76 - 122	
1,1-Dichloroethane 25.0 23.0 ug/L 92 77.120 1,1-Dichloroethane 25.0 24.1 ug/L 97 79.122 1,2-Dichloroberzene 25.0 24.0 ug/L 96 56.134 1,2-Dichloroberzene 25.0 24.0 ug/L 96 56.134 1,2-Dichloroberzene 25.0 23.7 ug/L 96 75.120 1,2-Dichloroberzene 25.0 23.1 ug/L 92 76.120 1,3-Dichloroberzene 25.0 23.1 ug/L 96 75.120 1,3-Dichloroberzene 25.0 23.2 ug/L 96 80.120 1,4-Dichloroberzene 25.0 23.9 ug/L 97 77.120 1,4-Dichloroberzene 25.0 23.9 ug/L 96 80.120 2-Hexanone 125 126 ug/L 97 77.120 4-Hexanone 125 120 ug/L 96 85.122 4-Hexanone 125 128 85.8 ug/L 96 85.142 Berzene 125 </td <td>1,1,2-Trichloro-1,2,2-trifluoroetha</td> <td>25.0</td> <td>23.3</td> <td></td> <td>ug/L</td> <td></td> <td>93</td> <td>61 - 148</td> <td></td>	1,1,2-Trichloro-1,2,2-trifluoroetha	25.0	23.3		ug/L		93	61 - 148	
1.1-Dichloroethene 25.0 24.1 ugl. 96 66.127 1.2-Li-Trichlorobenzene 25.0 24.2 ugl. 96 56.134 1.2-Dichrono-Chloropropane 25.0 23.7 ugl. 95 80.124 1.2-Dichloroptenzene 25.0 23.7 ugl. 96 75.120 1.2-Dichloroptopane 25.0 24.1 ugl. 96 75.120 1.3-Dichlorobenzene 25.0 24.2 ugl. 97 77.120 1.4-Dichlorobenzene 25.0 23.9 ugl. 96 80.120 2-Butanone (MEK) 125 92.0 ugl. 96 80.120 2-Hexanone 125 120 ugl. 96 85.127 4-Methyl-2-pentanone (MIBK) 125 114 ugl. 91 71.124 4-Methyl-2-pentanone (MIBK) 125 114 ugl. 96 71.124 Benzene 25.0 25.8 ugl. 96 71.124 Bromoform 25.0 25.8 ugl. 103 80.122 Bromoform 2									
1,2,4-Trichlorobenzene 25.0 24.2 ug/L 97 79-122 1,2-Dichloromo-3-Chloropropane 25.0 24.0 ug/L 96 56.134 1,2-Dichlorobenzene 25.0 23.7 ug/L 95 80.124 1,2-Dichlorobenzene 25.0 23.1 ug/L 92 76.120 1,3-Dichlorobenzene 25.0 23.9 ug/L 96 80.120 2-Butanone (MEK) 125 92.0 ug/L 74 57.140 2-Hexanone 125 120 ug/L 96 86.127 4-Methyl-2-pentanone (MIBK) 125 120 ug/L 96 86.127 Acetone 125 85.8 ug/L 96 86.127 Acetone 125 85.8 ug/L 96 86.127 Acetone 125 85.8 ug/L 96 86.142 Benzene 25.0 24.0 ug/L 96 87.124 Bromodichloromethane 25.0 25.8 ug/L 103 86.142 Carbon tetrachloride 25.0 2	1,1-Dichloroethane				ug/L				
1,2-Dibromo-3-Chloropropane 25.0 24.0 ug/L 96 56.134 1,2-Dichlorobenzene 25.0 23.7 ug/L 95 80.124 1,2-Dichlorobenzene 25.0 24.1 ug/L 96 75.120 1,3-Dichlorobenzene 25.0 24.2 ug/L 97 77.120 1,3-Dichlorobenzene 25.0 23.9 ug/L 96 80.120 2-Butanone (MEK) 125 92.0 ug/L 96 80.120 2-Heatynene (MEK) 125 120 ug/L 96 65.127 4-Methyl-2-pentanone (MIBK) 125 110 ug/L 96 65.127 4-Methyl-2-pentanone (MIBK) 125 114 ug/L 91 71.125 4-Methyl-2-pentanone (MIBK) 125 114 ug/L 96 65.142 Benzene 25.0 25.8 ug/L 96 71.124 Benzene 25.0 25.8 ug/L 19 16.132 Bromodichloromethane <td< td=""><td>1,1-Dichloroethene</td><td></td><td>24.1</td><td></td><td>ug/L</td><td></td><td>96</td><td>66 - 127</td><td></td></td<>	1,1-Dichloroethene		24.1		ug/L		96	66 - 127	
1,2-Dichloroehzane 25.0 23.7 ug/L 95 80-124 1,2-Dichloroehrane 25.0 24.1 ug/L 96 75-120 1,2-Dichloroehrane 25.0 23.1 ug/L 92 76-120 1,3-Dichloroehrane 25.0 24.2 ug/L 97 77-120 1,4-Dichlorobenzene 25.0 23.9 ug/L 96 80-120 2-Butanone (MEK) 125 92.0 ug/L 96 86-127 2-Hexanone 125 120 ug/L 96 86-127 4-Methyl-2-pentanone (MIBK) 125 114 ug/L 91 71-125 4-Acetone 125 85.8 ug/L 96 86-142 Benzene 25.0 24.0 ug/L 96 71-124 Bromodichloromethane 25.0 25.8 ug/L 103 80-122 Bromoform 25.0 25.8 ug/L 103 85-144 Carbon distilide 25.0 25.8 ug/L 103 85-144 Chlorobenzene 25.0 23.6	1,2,4-Trichlorobenzene		24.2		ug/L		97	79 - 122	
1,2-Dichloropehane 25.0 24.1 ug/L 96 75.120 1,2-Dichloropropane 25.0 23.1 ug/L 92 76.120 1,3-Dichlorobenzene 25.0 23.9 ug/L 96 80.120 2-Butanone (MEK) 125 92.0 ug/L 74 57.140 2-Hexanone 125 120 ug/L 96 65.127 4-Methyl-2-pentanone (MIBK) 125 114 ug/L 91 71.125 4-Methyl-2-pentanone (MIBK) 125 85.8 ug/L 96 65.127 4-Methyl-2-pentanone (MIBK) 125 85.8 ug/L 91 71.124 Benzene 25.0 24.0 ug/L 96 76.142 Benzene 25.0 25.8 ug/L 103 80.122 Bromoform 25.0 25.8 ug/L 103 80.122 Bromoform 25.0 25.8 ug/L 91 61.132 Bromoform 25.0 23.6 ug/L 97 72.134 Carbon tetrachloride 25.0 23.9<	1,2-Dibromo-3-Chloropropane	25.0	24.0		ug/L		96	56 - 134	
1,2-Dichloropropane 25.0 23.1 ug/L 92 76.120 1,3-Dichlorobenzene 25.0 24.2 ug/L 97 77.120 1,4-Dichlorobenzene 25.0 23.9 ug/L 96 80.120 2-Butanone (MEK) 125 92.0 ug/L 96 65.127 2-Hexanone 125 1120 ug/L 96 65.127 4-Methyl-2-pentanone (MIBK) 125 114 ug/L 91 71.125 Acetone 125 85.8 ug/L 69 56.142 Benzene 25.0 24.0 ug/L 96 71.124 Bromodichloromethane 25.0 25.8 ug/L 96 76.142 Bromodichloromethane 25.0 25.8 ug/L 91 61.32 Bromodichloromethane 25.0 25.8 ug/L 91 61.32 Bromodichloromethane 25.0 25.8 ug/L 91 61.32 Bromodichloromethane 25.0 24.3 ug/L 97 72.134 Carbon disulfide 25.0	1,2-Dichlorobenzene	25.0	23.7		ug/L		95	80 - 124	
1,3-Dichlorobenzene 25.0 24.2 ug/L 97 77.120 1,4-Dichlorobenzene 25.0 23.9 ug/L 96 80.120 2-Butanone (MEK) 125 92.0 ug/L 74 57.140 2-Hexanone 125 120 ug/L 96 66.127 4-Methyl-2-pentanone (MIBK) 125 114 ug/L 91 71.125 Acetone 125 85.8 ug/L 96 56.142 Benzene 25.0 24.0 ug/L 96 56.142 Bernzene 25.0 25.8 ug/L 96 56.142 Bromodichloromethane 25.0 25.8 ug/L 91 61.32 Bromodichloromethane 25.0 25.8 ug/L 91 61.32 Bromodichloromethane 25.0 23.6 ug/L 94 96.132 Carbon disulfide 25.0 23.6 ug/L 96 80.120 Chloroberare 25.0 23.9 ug/L 96 80.120 Dibromochloromethane 25.0 21.9	1,2-Dichloroethane	25.0	24.1		ug/L		96	75 - 120	
1,4-Dichlorobenzene 25.0 23.9 ug/L 96 80 . 120 2-Butanone (MEK) 125 92.0 ug/L 74 57 . 140 2-Hexanone 125 120 ug/L 96 65 . 127 4-Methyl-2-pentanone (MIBK) 125 114 ug/L 91 71 . 125 Acetone 126 85.8 ug/L 69 56 . 142 Benzene 25.0 24.0 ug/L 96 71 . 124 Bromodichloromethane 25.0 25.8 ug/L 103 80 . 122 Bromoform 25.0 22.8 ug/L 103 80 . 122 Bromoform 25.0 22.8 ug/L 103 80 . 122 Bromomethane 25.0 23.6 ug/L 103 55 . 144 Carbon tetrachloride 25.0 23.6 ug/L 104 59 . 134 Chiorobenzene 25.0 23.6 ug/L 96 80 . 120 Dibromochloromethane 25.0 23.6 ug/L 98 75 . 125 Chloroform 25.0	1,2-Dichloropropane	25.0	23.1		ug/L		92	76 - 120	
2-Butanone (MEK) 125 92.0 ug/L 74 57.140 2-Hexanone 125 120 ug/L 96 65.127 4-Methyl-2-pentanone (MIBK) 125 114 ug/L 91 71.125 Acetone 125 85.8 ug/L 69 66.142 Benzene 25.0 24.0 ug/L 96 71.124 Bromodichloromethane 25.0 25.8 ug/L 91 61.132 Bromoform 25.0 22.8 ug/L 91 61.132 Bromoformethane 25.0 22.8 ug/L 91 61.132 Bromoformethane 25.0 23.6 ug/L 94 59.134 Carbon tetrachloride 25.0 23.6 ug/L 96 80.120 Chlorostene 25.0 23.9 ug/L 96 80.120 Dibromochloromethane 25.0 21.3 ug/L 95 75.125 Chloroform 25.0 24.7 ug/L	1,3-Dichlorobenzene	25.0	24.2		ug/L		97	77 - 120	
2-Hexanone 125 120 ug/L 96 65 - 127 4-Methyl-2-pentanone (MIBK) 125 114 ug/L 91 71 - 125 Acetone 126 85.8 ug/L 69 56 - 142 Benzene 25.0 24.0 ug/L 96 71 - 124 Bromodichloromethane 25.0 25.8 ug/L 103 80 - 122 Bromoform 25.0 22.8 ug/L 91 61 - 132 Bromothane 25.0 25.8 ug/L 91 61 - 132 Bromothane 25.0 25.8 ug/L 91 61 - 132 Bromothane 25.0 25.8 ug/L 94 59 - 134 Carbon tetrachloride 25.0 23.6 ug/L 94 59 - 134 Chlorophane 25.0 23.6 ug/L 95 75 - 125 Chlorophane 25.0 23.6 ug/L 95 75 - 125 Chlorophane 25.0 24.7 ug/L	1,4-Dichlorobenzene	25.0	23.9		ug/L		96	80 - 120	
4-Methyl-2-pentanone (MIBK) 125 114 ug/L 91 71 - 125 Acetone 125 85.8 ug/L 69 56 - 142 Benzene 25.0 24.0 ug/L 96 71 - 124 Bromodichloromethane 25.0 25.8 ug/L 103 80 - 122 Bromoform 25.0 22.8 ug/L 91 61 - 132 Bromomethane 25.0 25.8 ug/L 103 55 - 144 Carbon disulfide 25.0 23.6 ug/L 94 59 - 134 Carbon disulfide 25.0 23.6 ug/L 97 72 - 134 Chlorobenzene 25.0 23.9 ug/L 96 80 - 120 Dibromochloromethane 25.0 23.6 ug/L 96 80 - 120 Chloroform 25.0 23.6 ug/L 98 75 - 125 Chloroform 25.0 24.7 ug/L 98 69 - 136 Chloroform 25.0 24.7 ug/L 98 74 - 124 cis-1,2-Dichloropthene 25.0	2-Butanone (MEK)	125	92.0		ug/L		74	57 - 140	
Acetone 125 85.8 ug/L 69 56 - 142 Benzene 25.0 24.0 ug/L 96 71 - 124 Bromodichloromethane 25.0 25.8 ug/L 103 80 - 122 Bromoform 25.0 22.8 ug/L 91 61 - 132 Bromomethane 25.0 25.8 ug/L 91 61 - 132 Bromomethane 25.0 25.8 ug/L 91 61 - 132 Bromomethane 25.0 23.6 ug/L 94 59 - 134 Carbon disulfide 25.0 23.6 ug/L 97 72 - 134 Chlorobenzene 25.0 23.9 ug/L 96 80 - 120 Dibromochloromethane 25.0 23.6 ug/L 95 75 - 125 Chloroform 25.0 21.9 ug/L 88 69 - 136 Chloroformethane 25.0 24.7 ug/L 99 73 - 127 Cisc 1,3-Dichloroethene 25.0 24.5 ug/L 98 74 - 124 cisc 1,3-Dichloropropene 25.0 <	2-Hexanone	125	120		ug/L		96	65 - 127	
Benzene 25.0 24.0 ug/L 96 71 - 124 Bromodichloromethane 25.0 25.8 ug/L 103 80 - 122 Bromoform 25.0 22.8 ug/L 91 61 - 132 Bromomethane 25.0 25.8 ug/L 103 55 - 144 Carbon disulfide 25.0 23.6 ug/L 94 59 - 134 Carbon tetrachloride 25.0 24.3 ug/L 97 72 - 134 Chlorobenzene 25.0 23.6 ug/L 96 80 - 120 Dibromochloromethane 25.0 23.6 ug/L 95 75 - 125 Chloroform 25.0 21.9 ug/L 88 69 - 136 Chloroform 25.0 24.7 ug/L 99 73 - 127 Chloromethane 25.0 24.5 ug/L 98 74 - 124 cis-1,2-Dichloroethene 25.0 24.7 ug/L 99 74 - 124 Cyclohexane 25.0 20.2	4-Methyl-2-pentanone (MIBK)	125	114		ug/L		91	71 - 125	
Bromodichloromethane 25.0 25.8 ug/L 103 80 - 122 Bromoform 25.0 22.8 ug/L 91 61 - 132 Bromomethane 25.0 25.8 ug/L 103 55 - 144 Carbon disulfide 25.0 23.6 ug/L 94 59 - 134 Carbon tetrachloride 25.0 24.3 ug/L 97 72 - 134 Chlorobenzene 25.0 23.6 ug/L 96 80 - 120 Dibromochloromethane 25.0 23.6 ug/L 95 75 - 125 Chloroform 25.0 21.9 ug/L 88 69 - 136 Chloroform 25.0 24.7 ug/L 99 73 - 127 Chloromethane 25.0 24.5 ug/L 98 74 - 124 cis-1,2-Dichloroptopene 25.0 24.7 ug/L 99 74 - 124 Cyclohexane 25.0 20.8 ug/L 83 59 - 135 Dichlorodifluoromethane 25.0	Acetone	125	85.8		ug/L		69	56 - 142	
Bromoform 25.0 22.8 ug/L 91 61-132 Bromomethane 25.0 25.8 ug/L 103 55-144 Carbon disulfide 25.0 23.6 ug/L 94 59-134 Carbon tetrachloride 25.0 24.3 ug/L 97 72-134 Chlorobenzene 25.0 23.9 ug/L 96 80-120 Dibromochloromethane 25.0 23.6 ug/L 95 75-125 Chloroethane 25.0 21.9 ug/L 88 69-136 Chloroform 25.0 24.7 ug/L 99 73-127 Chloromethane 25.0 21.3 ug/L 85 68-124 cis-1,2-Dichloroethene 25.0 24.5 ug/L 98 74-124 cis-1,3-Dichloropropene 25.0 24.5 ug/L 99 74-124 cis-1,3-Dichloroethane 25.0 20.2 ug/L 81 59-135 Ethylbenzene 25.0 20.2	Benzene	25.0	24.0		ug/L		96	71 - 124	
Bromomethane 25.0 25.8 ug/L 103 55 - 144 Carbon disulfide 25.0 23.6 ug/L 94 59 - 134 Carbon tetrachloride 25.0 24.3 ug/L 97 72 - 134 Chlorobenzene 25.0 23.9 ug/L 96 80 - 120 Dibromochloromethane 25.0 23.6 ug/L 95 75 - 125 Chloroferm 25.0 21.9 ug/L 88 69 - 136 Chloromethane 25.0 24.7 ug/L 99 73 - 127 Chloromethane 25.0 21.3 ug/L 85 68 - 124 cis-1,2-Dichloroptehene 25.0 24.5 ug/L 98 74 - 124 cis-1,3-Dichloropropene 25.0 24.7 ug/L 99 74 - 124 Cyclohexane 25.0 20.8 ug/L 81 59 - 135 Ethylbenzene 25.0 24.6 ug/L 98 77 - 123 1,2-Dibromoethane 25.0	Bromodichloromethane	25.0	25.8		ug/L		103	80 - 122	
Carbon disulfide 25.0 23.6 ug/L 94 59 - 134 Carbon tetrachloride 25.0 24.3 ug/L 97 72 - 134 Chlorobenzene 25.0 23.9 ug/L 96 80 - 120 Dibromochloromethane 25.0 23.6 ug/L 95 75 - 125 Chloroethane 25.0 21.9 ug/L 88 69 - 136 Chloroform 25.0 24.7 ug/L 99 73 - 127 Chloromethane 25.0 21.3 ug/L 85 68 - 124 cis-1,2-Dichloroethene 25.0 24.5 ug/L 98 74 - 124 cis-1,3-Dichloropropene 25.0 24.7 ug/L 99 74 - 124 Cyclohexane 25.0 20.8 ug/L 83 59 - 135 Dichlorodifluoromethane 25.0 20.2 ug/L 81 59 - 135 Ethylbenzene 25.0 24.6 ug/L 98 77 - 123 1,2-Dibromoethane 25.0<	Bromoform	25.0	22.8		ug/L		91	61 - 132	
Carbon tetrachloride 25.0 24.3 ug/L 97 72 - 134 Chlorobenzene 25.0 23.9 ug/L 96 80 - 120 Dibromochloromethane 25.0 23.6 ug/L 95 75 - 125 Chloroethane 25.0 21.9 ug/L 88 69 - 136 Chloroform 25.0 24.7 ug/L 99 73 - 127 Chloromethane 25.0 21.3 ug/L 85 68 - 124 cis-1,2-Dichloroethene 25.0 24.5 ug/L 98 74 - 124 cis-1,3-Dichloropropene 25.0 24.7 ug/L 99 74 - 124 Cyclohexane 25.0 20.8 ug/L 83 59 - 135 Dichlorodifluoromethane 25.0 20.2 ug/L 81 59 - 135 Ethylbenzene 25.0 24.6 ug/L 98 77 - 123 1,2-Dibromoethane 25.0 24.7 ug/L 99 77 - 120 Isopropylbenzene 25.0 24.9 ug/L 99 77 - 122 Methyl acetate	Bromomethane	25.0	25.8		ug/L		103	55 - 144	
Chlorobenzene 25.0 23.9 ug/L 96 80 - 120 Dibromochloromethane 25.0 23.6 ug/L 95 75 - 125 Chloroethane 25.0 21.9 ug/L 88 69 - 136 Chloroform 25.0 24.7 ug/L 99 73 - 127 Chloromethane 25.0 21.3 ug/L 85 68 - 124 cis-1,2-Dichloroethene 25.0 24.5 ug/L 98 74 - 124 cis-1,3-Dichloropropene 25.0 24.7 ug/L 99 74 - 124 Cyclohexane 25.0 20.8 ug/L 83 59 - 135 Dichlorodifluoromethane 25.0 20.2 ug/L 81 59 - 135 Ethylbenzene 25.0 24.6 ug/L 98 77 - 123 1,2-Dibromoethane 25.0 24.7 ug/L 99 77 - 120 Isopropylbenzene 25.0 24.9 ug/L 99 77 - 122 Methyl acetate 50.0 56.1 ug/L 96 77 - 120	Carbon disulfide	25.0	23.6		ug/L		94	59 - 134	
Dibromochloromethane 25.0 23.6 ug/L 95 75 - 125 Chloroethane 25.0 21.9 ug/L 88 69 - 136 Chloroform 25.0 24.7 ug/L 99 73 - 127 Chloromethane 25.0 24.3 ug/L 85 68 - 124 cis-1,2-Dichloroethene 25.0 24.5 ug/L 98 74 - 124 cis-1,3-Dichloropropene 25.0 24.7 ug/L 99 74 - 124 Cyclohexane 25.0 20.8 ug/L 83 59 - 135 Dichlorodifluoromethane 25.0 20.2 ug/L 81 59 - 135 Ethylbenzene 25.0 24.6 ug/L 98 77 - 123 1,2-Dibromoethane 25.0 24.7 ug/L 99 77 - 120 Isopropylbenzene 25.0 24.9 ug/L 99 77 - 122 Methyl acetate 50.0 56.1 ug/L 96 77 - 120	Carbon tetrachloride	25.0	24.3		ug/L		97	72 - 134	
Chloroethane 25.0 21.9 ug/L 88 69 - 136 Chloroform 25.0 24.7 ug/L 99 73 - 127 Chloromethane 25.0 24.3 ug/L 85 68 - 124 cis-1,2-Dichloroethene 25.0 24.5 ug/L 98 74 - 124 cis-1,3-Dichloropropene 25.0 24.7 ug/L 99 74 - 124 Cyclohexane 25.0 20.8 ug/L 83 59 - 135 Dichlorodifluoromethane 25.0 20.2 ug/L 81 59 - 135 Ethylbenzene 25.0 24.6 ug/L 98 77 - 123 1,2-Dibromoethane 25.0 24.7 ug/L 99 77 - 120 Isopropylbenzene 25.0 24.9 ug/L 99 77 - 122 Methyl acetate 50.0 56.1 ug/L 96 77 - 120 Methyl tert-butyl ether 25.0 24.1 ug/L 96 77 - 120	Chlorobenzene	25.0	23.9		ug/L		96	80 - 120	
Chloroform 25.0 24.7 ug/L 99 73 - 127 Chloromethane 25.0 21.3 ug/L 85 68 - 124 cis-1,2-Dichloroethene 25.0 24.5 ug/L 98 74 - 124 cis-1,3-Dichloropropene 25.0 24.7 ug/L 99 74 - 124 Cyclohexane 25.0 20.8 ug/L 83 59 - 135 Dichlorodifluoromethane 25.0 20.2 ug/L 81 59 - 135 Ethylbenzene 25.0 24.6 ug/L 98 77 - 123 1,2-Dibromoethane 25.0 24.7 ug/L 99 77 - 120 Isopropylbenzene 25.0 24.9 ug/L 99 77 - 122 Methyl acetate 50.0 56.1 ug/L 112 74 - 133 Methyl tert-butyl ether 25.0 24.1 ug/L 96 77 - 120	Dibromochloromethane	25.0	23.6		ug/L		95	75 - 125	
Chloromethane 25.0 21.3 ug/L 85 68 - 124 cis-1,2-Dichloroethene 25.0 24.5 ug/L 98 74 - 124 cis-1,3-Dichloropropene 25.0 24.7 ug/L 99 74 - 124 Cyclohexane 25.0 20.8 ug/L 83 59 - 135 Dichlorodifluoromethane 25.0 20.2 ug/L 81 59 - 135 Ethylbenzene 25.0 24.6 ug/L 98 77 - 123 1,2-Dibromoethane 25.0 24.7 ug/L 99 77 - 120 Isopropylbenzene 25.0 24.9 ug/L 99 77 - 122 Methyl acetate 50.0 56.1 ug/L 112 74 - 133 Methyl tert-butyl ether 25.0 24.1 ug/L 96 77 - 120	Chloroethane	25.0	21.9		ug/L		88	69 - 136	
cis-1,2-Dichloroethene 25.0 24.5 ug/L 98 74 - 124 cis-1,3-Dichloropropene 25.0 24.7 ug/L 99 74 - 124 Cyclohexane 25.0 20.8 ug/L 83 59 - 135 Dichlorodifluoromethane 25.0 20.2 ug/L 81 59 - 135 Ethylbenzene 25.0 24.6 ug/L 98 77 - 123 1,2-Dibromoethane 25.0 24.7 ug/L 99 77 - 120 Isopropylbenzene 25.0 24.9 ug/L 99 77 - 122 Methyl acetate 50.0 56.1 ug/L 112 74 - 133 Methyl tert-butyl ether 25.0 24.1 ug/L 96 77 - 120	Chloroform	25.0	24.7		ug/L		99	73 - 127	
cis-1,3-Dichloropropene 25.0 24.7 ug/L 99 74 - 124 Cyclohexane 25.0 20.8 ug/L 83 59 - 135 Dichlorodifluoromethane 25.0 20.2 ug/L 81 59 - 135 Ethylbenzene 25.0 24.6 ug/L 98 77 - 123 1,2-Dibromoethane 25.0 24.7 ug/L 99 77 - 120 Isopropylbenzene 25.0 24.9 ug/L 99 77 - 122 Methyl acetate 50.0 56.1 ug/L 112 74 - 133 Methyl tert-butyl ether 25.0 24.1 ug/L 96 77 - 120	Chloromethane	25.0	21.3		ug/L		85	68 - 124	
Cyclohexane 25.0 20.8 ug/L 83 59 - 135 Dichlorodifluoromethane 25.0 20.2 ug/L 81 59 - 135 Ethylbenzene 25.0 24.6 ug/L 98 77 - 123 1,2-Dibromoethane 25.0 24.7 ug/L 99 77 - 120 Isopropylbenzene 25.0 24.9 ug/L 99 77 - 122 Methyl acetate 50.0 56.1 ug/L 112 74 - 133 Methyl tert-butyl ether 25.0 24.1 ug/L 96 77 - 120	cis-1,2-Dichloroethene	25.0	24.5		ug/L		98	74 - 124	
Dichlorodifluoromethane 25.0 20.2 ug/L 81 59 - 135 Ethylbenzene 25.0 24.6 ug/L 98 77 - 123 1,2-Dibromoethane 25.0 24.7 ug/L 99 77 - 120 Isopropylbenzene 25.0 24.9 ug/L 99 77 - 122 Methyl acetate 50.0 56.1 ug/L 112 74 - 133 Methyl tert-butyl ether 25.0 24.1 ug/L 96 77 - 120	cis-1,3-Dichloropropene	25.0	24.7		ug/L		99	74 - 124	
Ethylbenzene 25.0 24.6 ug/L 98 77 - 123 1,2-Dibromoethane 25.0 24.7 ug/L 99 77 - 120 Isopropylbenzene 25.0 24.9 ug/L 99 77 - 122 Methyl acetate 50.0 56.1 ug/L 112 74 - 133 Methyl tert-butyl ether 25.0 24.1 ug/L 96 77 - 120	Cyclohexane	25.0	20.8		ug/L		83	59 - 135	
1,2-Dibromoethane 25.0 24.7 ug/L 99 77 - 120 Isopropylbenzene 25.0 24.9 ug/L 99 77 - 122 Methyl acetate 50.0 56.1 ug/L 112 74 - 133 Methyl tert-butyl ether 25.0 24.1 ug/L 96 77 - 120	Dichlorodifluoromethane	25.0	20.2		ug/L		81	59 - 135	
Isopropylbenzene 25.0 24.9 ug/L 99 77 - 122 Methyl acetate 50.0 56.1 ug/L 112 74 - 133 Methyl tert-butyl ether 25.0 24.1 ug/L 96 77 - 120	Ethylbenzene	25.0	24.6		ug/L		98	77 - 123	
Methyl acetate 50.0 56.1 ug/L 112 74 - 133 Methyl tert-butyl ether 25.0 24.1 ug/L 96 77 - 120	1,2-Dibromoethane	25.0	24.7		ug/L		99	77 - 120	
Methyl tert-butyl ether 25.0 24.1 ug/L 96 77 - 120	Isopropylbenzene	25.0	24.9		ug/L		99	77 - 122	
·	Methyl acetate	50.0	56.1		ug/L		112	74 - 133	
Methylcyclohexane 25.0 21.9 ug/L 87 68 - 134	Methyl tert-butyl ether	25.0	24.1		ug/L		96	77 - 120	
	Methylcyclohexane	25.0	21.9		ug/L		87	68 - 134	

Client: Tetra Tech GEO Job ID: 480-196310-1

Project/Site: GE Pompey, NY Investigation

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS 480-620181/4

Matrix: Water

Analysis Batch: 620181

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Spike LCS LCS %Rec Analyte Added Result Qualifier Unit %Rec Limits Methylene Chloride 25.0 22.7 91 75 - 124 ug/L Styrene ug/L 25.0 25.1 100 80 - 120 Tetrachloroethene 25.0 74 - 122 23.1 ug/L 92 Toluene 25.0 23.4 ug/L 94 80 - 122 73 - 127 trans-1,2-Dichloroethene 25.0 23.3 ug/L 93 trans-1,3-Dichloropropene 25.0 25.2 ug/L 101 80 - 120 74 - 123 Trichloroethene 25.0 24.3 ug/L 97 Trichlorofluoromethane 25.0 22.2 ug/L 89 62 - 150 25.0 20.2 65 - 133 Vinyl chloride ug/L 81

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
Toluene-d8 (Surr)	99		80 - 120
1,2-Dichloroethane-d4 (Surr)	104		77 - 120
4-Bromofluorobenzene (Surr)	97		73 - 120
Dibromofluoromethane (Surr)	101		75 - 123

Client Sample ID: INFLUENT

Prep Type: Total/NA

Matrix: Water

Lab Sample ID: 480-196310-1 MS

Analysis Batch: 620181										
	•	Sample	Spike	MS	MS				%Rec	
Analyte		Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,1,1-Trichloroethane	ND		100	94.6		ug/L		95	73 - 126	
1,1,2,2-Tetrachloroethane	ND		100	103		ug/L		103	76 - 120	
1,1,2-Trichloroethane	ND		100	104		ug/L		104	76 - 122	
1,1,2-Trichloro-1,2,2-trifluoroetha	ND		100	86.7		ug/L		87	61 - 148	
ne										
1,1-Dichloroethane	12		100	111		ug/L		99	77 - 120	
1,1-Dichloroethene	ND		100	91.1		ug/L		91	66 - 127	
1,2,4-Trichlorobenzene	ND		100	86.5		ug/L		87	79 - 122	
1,2-Dibromo-3-Chloropropane	ND		100	99.9		ug/L		100	56 - 134	
1,2-Dichlorobenzene	ND		100	91.9		ug/L		92	80 - 124	
1,2-Dichloroethane	ND		100	101		ug/L		101	75 - 120	
1,2-Dichloropropane	ND		100	99.5		ug/L		99	76 - 120	
1,3-Dichlorobenzene	ND		100	99.3		ug/L		99	77 - 120	
1,4-Dichlorobenzene	ND		100	97.9		ug/L		98	78 - 124	
2-Butanone (MEK)	ND		500	562		ug/L		112	57 - 140	
2-Hexanone	ND		500	602		ug/L		120	65 _ 127	
4-Methyl-2-pentanone (MIBK)	ND		500	548		ug/L		110	71 - 125	
Acetone	ND		500	437		ug/L		87	56 - 142	
Benzene	ND		100	98.0		ug/L		98	71 - 124	
Bromodichloromethane	ND		100	103		ug/L		103	80 - 122	
Bromoform	ND		100	83.9		ug/L		84	61 - 132	
Bromomethane	ND		100	78.1		ug/L		78	55 - 144	
Carbon disulfide	ND		100	86.5		ug/L		87	59 - 134	
Carbon tetrachloride	ND		100	89.1		ug/L		89	72 - 134	
Chlorobenzene	ND		100	101		ug/L		101	80 - 120	
Dibromochloromethane	ND		100	93.6		ug/L		94	75 _ 125	
Chloroethane	ND		100	86.3		ug/L		86	69 - 136	
Chloroform	ND		100	95.0		ug/L		95	73 - 127	

Client: Tetra Tech GEO Job ID: 480-196310-1

Project/Site: GE Pompey, NY Investigation

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-196310-1 MS

Matrix: Water

Analysis Batch: 620181

Client Sample ID: INFLUENT

Prep Type: Total/NA

	Sample	Sample	Spike	MS	MS				%Rec
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D %	%Rec	Limits
Chloromethane	ND		100	78.4		ug/L		78	68 - 124
cis-1,2-Dichloroethene	99	F1	100	249	F1	ug/L		149	74 - 124
cis-1,3-Dichloropropene	ND		100	102		ug/L		102	74 - 124
Cyclohexane	ND		100	76.3		ug/L		76	59 - 135
Dichlorodifluoromethane	ND		100	69.2		ug/L		69	59 _ 135
Ethylbenzene	ND		100	104		ug/L		104	77 _ 123
1,2-Dibromoethane	ND		100	107		ug/L		107	77 - 120
Isopropylbenzene	ND		100	93.3		ug/L		93	77 - 122
Methyl acetate	ND		200	200		ug/L		100	74 - 133
Methyl tert-butyl ether	ND		100	89.8		ug/L		90	77 - 120
Methylcyclohexane	ND		100	75.6		ug/L		76	68 - 134
Methylene Chloride	ND		100	86.8		ug/L		87	75 - 124
Styrene	ND		100	106		ug/L		106	80 - 120
Tetrachloroethene	ND		100	96.7		ug/L		97	74 - 122
Toluene	ND		100	98.6		ug/L		99	80 - 122
trans-1,2-Dichloroethene	ND		100	88.2		ug/L		88	73 - 127
trans-1,3-Dichloropropene	ND		100	106		ug/L		106	80 - 120
Trichloroethene	ND		100	104		ug/L		104	74 - 123
Trichlorofluoromethane	ND		100	88.4		ug/L		88	62 - 150
Vinyl chloride	5.3		100	88.2		ug/L		83	65 _ 133
	***	440							

MS MS

Surrogate	%Recovery	Qualifier	Limits
Toluene-d8 (Surr)	100		80 - 120
1,2-Dichloroethane-d4 (Surr)	105		77 - 120
4-Bromofluorobenzene (Surr)	104		73 _ 120
Dibromofluoromethane (Surr)	95		75 - 123

Lab Sample ID: 480-196310-1 MSD

Matrix: Water

Analysis Batch: 620181

Client Sample ID: INFLUENT Prep Type: Total/NA

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,1,1-Trichloroethane	ND		100	88.7		ug/L		89	73 - 126	6	15
1,1,2,2-Tetrachloroethane	ND		100	103		ug/L		103	76 - 120	0	15
1,1,2-Trichloroethane	ND		100	98.3		ug/L		98	76 - 122	6	15
1,1,2-Trichloro-1,2,2-trifluoroetha	ND		100	74.7		ug/L		75	61 - 148	15	20
ne											
1,1-Dichloroethane	12		100	104		ug/L		92	77 - 120	6	20
1,1-Dichloroethene	ND		100	82.4		ug/L		82	66 - 127	10	16
1,2,4-Trichlorobenzene	ND		100	90.7		ug/L		91	79 - 122	5	20
1,2-Dibromo-3-Chloropropane	ND		100	101		ug/L		101	56 - 134	1	15
1,2-Dichlorobenzene	ND		100	93.9		ug/L		94	80 - 124	2	20
1,2-Dichloroethane	ND		100	96.6		ug/L		97	75 - 120	4	20
1,2-Dichloropropane	ND		100	93.8		ug/L		94	76 - 120	6	20
1,3-Dichlorobenzene	ND		100	97.0		ug/L		97	77 - 120	2	20
1,4-Dichlorobenzene	ND		100	98.5		ug/L		98	78 - 124	1	20
2-Butanone (MEK)	ND		500	535		ug/L		107	57 - 140	5	20
2-Hexanone	ND		500	558		ug/L		112	65 - 127	7	15
4-Methyl-2-pentanone (MIBK)	ND		500	522		ug/L		104	71 - 125	5	35

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Client: Tetra Tech GEO Job ID: 480-196310-1

Project/Site: GE Pompey, NY Investigation

Method: 8260C - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: 480-196310-1 MSD

Matrix: Water

Analysis Batch: 620181

Client Sample ID: INFLUENT

Prep Type: Total/NA

	Sample	Sample	Spike	MSD	MSD				%Rec		RPD
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acetone	ND		500	451		ug/L		90	56 - 142	3	15
Benzene	ND		100	91.7		ug/L		92	71 - 124	7	13
Bromodichloromethane	ND		100	99.2		ug/L		99	80 - 122	4	15
Bromoform	ND		100	89.8		ug/L		90	61 - 132	7	15
Bromomethane	ND		100	75.5		ug/L		75	55 - 144	3	15
Carbon disulfide	ND		100	76.5		ug/L		76	59 - 134	12	15
Carbon tetrachloride	ND		100	85.8		ug/L		86	72 - 134	4	15
Chlorobenzene	ND		100	96.8		ug/L		97	80 - 120	4	25
Dibromochloromethane	ND		100	97.8		ug/L		98	75 - 125	4	15
Chloroethane	ND		100	82.8		ug/L		83	69 - 136	4	15
Chloroform	ND		100	91.4		ug/L		91	73 - 127	4	20
Chloromethane	ND		100	75.3		ug/L		75	68 - 124	4	15
cis-1,2-Dichloroethene	99	F1	100	242	F1	ug/L		142	74 - 124	3	15
cis-1,3-Dichloropropene	ND		100	99.0		ug/L		99	74 - 124	3	15
Cyclohexane	ND		100	70.7		ug/L		71	59 - 135	8	20
Dichlorodifluoromethane	ND		100	64.4		ug/L		64	59 - 135	7	20
Ethylbenzene	ND		100	97.5		ug/L		97	77 - 123	6	15
1,2-Dibromoethane	ND		100	104		ug/L		104	77 - 120	3	15
Isopropylbenzene	ND		100	93.0		ug/L		93	77 - 122	0	20
Methyl acetate	ND		200	188		ug/L		94	74 - 133	6	20
Methyl tert-butyl ether	ND		100	86.3		ug/L		86	77 - 120	4	37
Methylcyclohexane	ND		100	71.2		ug/L		71	68 - 134	6	20
Methylene Chloride	ND		100	82.5		ug/L		83	75 - 124	5	15
Styrene	ND		100	104		ug/L		104	80 - 120	2	20
Tetrachloroethene	ND		100	91.0		ug/L		91	74 - 122	6	20
Toluene	ND		100	96.5		ug/L		97	80 - 122	2	15
trans-1,2-Dichloroethene	ND		100	82.4		ug/L		82	73 - 127	7	20
trans-1,3-Dichloropropene	ND		100	104		ug/L		104	80 - 120	2	15
Trichloroethene	ND		100	96.5		ug/L		97	74 - 123	8	16
Trichlorofluoromethane	ND		100	81.9		ug/L		82	62 - 150	8	20
Vinyl chloride	5.3		100	82.8		ug/L		78	65 - 133	6	15

MSD MSD

Surrogate	%Recovery	Qualifier	Limits
Toluene-d8 (Surr)	100		80 - 120
1,2-Dichloroethane-d4 (Surr)	103		77 - 120
4-Bromofluorobenzene (Surr)	97		73 - 120
Dibromofluoromethane (Surr)	93		75 - 123

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

MB MB

38

Lab Sample ID: MB 480-620117/1-A

Matrix: Water

1,4-Dioxane-d8

Analysis Batch: 620693

Client Sample ID: Method Blank Prep Type: Total/NA

04/01/22 15:29 04/06/22 19:39

Prep Batch: 620117

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		04/01/22 15:29	04/06/22 19:39	1
	MB	MB							
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac

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Client: Tetra Tech GEO Job ID: 480-196310-1

Project/Site: GE Pompey, NY Investigation

1,4-Dioxane-d8

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: LCS 480-620117/2-A	Client Sample ID: Lab Control Sample
Matrix: Water	Prep Type: Total/NA
Analysis Batch: 620693	Prep Batch: 620117

		Spike	LCS	LCS				%Rec	
Analyte		Added	Result	Qualifier	Unit	D	%Rec	Limits	
1,4-Dioxane		2.00	2.17		ug/L		109	40 - 140	
	100 100								

	LUS	LUS		
Isotope Dilution	%Recovery	Qualifier	Limits	
1,4-Dioxane-d8	34		15 - 110	

35

Lab Sample ID: LCSD 480-620117/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Water Prep Type: Total/NA Analysis Batch: 620693 Prep Batch: 620117 RPD nit

			Spike	LCGD	LUSD				/ortec		KFD
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,4-Dioxane			2.00	2.21		ug/L		110	40 - 140	2	20
	LCSD	LCSD									
Isotope Dilution	%Recovery	Qualifier	Limits								

15 - 110

QC Association Summary

Client: Tetra Tech GEO Job ID: 480-196310-1

Project/Site: GE Pompey, NY Investigation

GC/MS VOA

Analysis Batch: 620181

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-196310-1	INFLUENT	Total/NA	Water	8260C	
480-196310-2	POST COLUMN 1	Total/NA	Water	8260C	
480-196310-3	POST COLUMN 2	Total/NA	Water	8260C	
480-196310-4	EFFLUENT	Total/NA	Water	8260C	
480-196310-5	TRIP BLANK	Total/NA	Water	8260C	
MB 480-620181/6	Method Blank	Total/NA	Water	8260C	
LCS 480-620181/4	Lab Control Sample	Total/NA	Water	8260C	
480-196310-1 MS	INFLUENT	Total/NA	Water	8260C	
480-196310-1 MSD	INFLUENT	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 620117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-196310-1	INFLUENT	Total/NA	Water	3510C	
480-196310-2	POST COLUMN 1	Total/NA	Water	3510C	
480-196310-3	POST COLUMN 2	Total/NA	Water	3510C	
480-196310-4	EFFLUENT	Total/NA	Water	3510C	
MB 480-620117/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-620117/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-620117/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 620693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-196310-3	POST COLUMN 2	Total/NA	Water	8270D SIM ID	620117
480-196310-4	EFFLUENT	Total/NA	Water	8270D SIM ID	620117
MB 480-620117/1-A	Method Blank	Total/NA	Water	8270D SIM ID	620117
LCS 480-620117/2-A	Lab Control Sample	Total/NA	Water	8270D SIM ID	620117
LCSD 480-620117/3-A	Lab Control Sample Dup	Total/NA	Water	8270D SIM ID	620117

Analysis Batch: 620823

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-196310-1	INFLUENT	Total/NA	Water	8270D SIM ID	620117
480-196310-2	POST COLUMN 1	Total/NA	Water	8270D SIM ID	620117

Eurofins Buffalo

Client: Tetra Tech GEO Job ID: 480-196310-1

Project/Site: GE Pompey, NY Investigation

Client Sample ID: INFLUENT

Lab Sample ID: 480-196310-1 Date Collected: 03/30/22 17:35

Matrix: Water

Date Received: 04/01/22 08:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	620181	04/02/22 18:27	CRL	TAL BUF
Total/NA	Prep	3510C			620117	04/01/22 15:29	CMC	TAL BUF
Total/NA	Analysis	8270D SIM ID		5	620823	04/07/22 14:19	PJQ	TAL BUF

Client Sample ID: POST COLUMN 1

Lab Sample ID: 480-196310-2

Matrix: Water

Date Collected: 03/30/22 17:45 Date Received: 04/01/22 08:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	620181	04/02/22 18:50	CRL	TAL BUF
Total/NA	Prep	3510C			620117	04/01/22 16:00	CMC	TAL BUF
Total/NA	Analysis	8270D SIM ID		5	620823	04/07/22 14:42	PJQ	TAL BUF

Client Sample ID: POST COLUMN 2

Lab Sample ID: 480-196310-3

Matrix: Water

Date Collected: 03/30/22 17:53 Date Received: 04/01/22 08:00

Batch Batch Dilution Batch Prepared **Prep Type** Type Method Run Factor Number or Analyzed Analyst Lab Total/NA Analysis 8260C 620181 04/02/22 19:13 CRL TAL BUF Total/NA Prep 3510C 620117 04/01/22 15:29 CMC TAL BUF Total/NA Analysis 8270D SIM ID 620693 04/06/22 21:28 PJQ TAL BUF 1

Client Sample ID: EFFLUENT

Lab Sample ID: 480-196310-4

Matrix: Water

Date Collected: 03/30/22 18:05 Date Received: 04/01/22 08:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	620181	04/02/22 19:38	CRL	TAL BUF
Total/NA	Prep	3510C			620117	04/01/22 15:29	CMC	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	620693	04/06/22 21:51	PJQ	TAL BUF

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-196310-5

Matrix: Water

Date Collected: 03/30/22 00:00 Date Received: 04/01/22 08:00

	Batch	Batch		Dilution	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	620181	04/02/22 20:03	CRL	TAL BUF

Laboratory References:

TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: Tetra Tech GEO Job ID: 480-196310-1

Project/Site: GE Pompey, NY Investigation

Laboratory: Eurofins Buffalo

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	P	rogram	Identification Number	Expiration Date
Massachusetts	S	tate	M-NY044	06-30-22
- 1 6 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
the agency does not of	·	ut the laboratory is not certif	ied by the governing authority. This list ma	ay include analytes for wh
Analysis Method	Prep Method	Matrix	Analyte	
8260C	Fieb Method	Water	1,1,1-Trichloroethane	
8260C		Water	1,1,2,2-Tetrachloroethane	
8260C		Water	1,1,2-Trichloro-1,2,2-trifluoroe	thane
8260C		Water	1,1,2-Trichloroethane	mane
8260C		Water	1,1-Dichloroethane	
8260C		Water	1,1-Dichloroethene	
8260C		Water	1,2,4-Trichlorobenzene	
8260C		Water	1,2-Dibromo-3-Chloropropane	
8260C		Water	1,2-Dibromoethane	
8260C		Water	1,2-Dichlorobenzene	
8260C		Water		
8260C		Water	1,2-Dichloroethane	
8260C		Water	1,2-Dichloropropane	
8260C		Water	1,3-Dichlorobenzene 1,4-Dichlorobenzene	
		Water	,	
8260C 8260C		Water	2-Butanone (MEK) 2-Hexanone	
8260C		Water Water	4-Methyl-2-pentanone (MIBK)	
8260C			Acetone	
8260C		Water	Benzene	
8260C		Water	Bromodichloromethane Bromoform	
8260C		Water		
8260C		Water	Bromomethane	
8260C		Water	Carbon disulfide	
8260C		Water	Carbon tetrachloride	
8260C		Water	Chlorobenzene	
8260C		Water	Chloroform	
8260C		Water	Chloroform	
8260C		Water	Chloromethane	
8260C		Water	cis-1,2-Dichloroethene	
8260C		Water	cis-1,3-Dichloropropene	
8260C		Water	Cyclohexane	
8260C		Water	Dibromochloromethane	
8260C		Water	Dichlorodifluoromethane	
8260C		Water	Ethylbenzene 	
8260C		Water	Isopropylbenzene	
8260C		Water	Methyl acetate	
8260C		Water	Methyl tert-butyl ether	
8260C		Water	Methylcyclohexane	
8260C		Water	Methylene Chloride	
8260C		Water	Styrene	
8260C		Water	Tetrachloroethene	
8260C		Water	Toluene	
8260C		Water	trans-1,2-Dichloroethene	
8260C		Water	trans-1,3-Dichloropropene	
8260C		Water	Trichloroethene	

Eurofins Buffalo

Page 23 of 28 4/8/2022

Accreditation/Certification Summary

Client: Tetra Tech GEO Job ID: 480-196310-1

Project/Site: GE Pompey, NY Investigation

Laboratory: Eurofins Buffalo (Continued)

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

uthority		rogram	Identification Number	Expiration Date
The following analytes the agency does not of	•	ut the laboratory is not certif	ied by the governing authority. This list ma	y include analytes for which
Analysis Method	Prep Method	Matrix	Analyte	
8260C		Water	Trichlorofluoromethane	
8260C		Water	Vinyl chloride	
8260C		Water	Xylenes, Total	
8270D SIM ID	3510C	Water	1,4-Dioxane	

Method Summary

Client: Tetra Tech GEO Job ID: 480-196310-1

Project/Site: GE Pompey, NY Investigation

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: Tetra Tech GEO Job ID: 480-196310-1

Project/Site: GE Pompey, NY Investigation

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-196310-1	INFLUENT	Water	03/30/22 17:35	04/01/22 08:00
480-196310-2	POST COLUMN 1	Water	03/30/22 17:45	04/01/22 08:00
480-196310-3	POST COLUMN 2	Water	03/30/22 17:53	04/01/22 08:00
480-196310-4	EFFLUENT	Water	03/30/22 18:05	04/01/22 08:00
480-196310-5	TRIP BLANK	Water	03/30/22 00:00	04/01/22 08:00

EUrOfins Buffalo 10 Hazelwood Drive Amherst, NY 14228-2298 Phone: 716-691-2600 Fax: 716-691-7991	Chain of Cu	Chain of Custody Record	rd		Environment Testing	nt Testing
Client Information	Sampler. Bailty Kudla-Williams		an J	Syracuse	COC No: 480-169454-36972 5	
Ms. Bailey Kudla-Williams	Phone: 205-501-4053		E-Mail: Brian. Fischer@Eurofinset.com	State of Origin	Page:	
Company: Tetra Tech GEO	PWSID:		Potocing Godfall	- #-K-60	Job #:	
Address: 3136 South Winton Road Suite 303	Due Date Requestad:		N GIG AND	naseanha	Preservation Codes:	
City: Rochester	-					
State, Zip. NY, 14623	Compliance Project: A Yes A No					
Phone: 805-501-8053(Tel)					F - MeOH R - Na2S203 G - Amchlor S - H2SO4	
Email: bailey,kudlawilliams@tetratech.com	#OM	-	əu			cahydrate
Project Name: GE Pompey, NY Investigation	Project #: 48023743			sioni	K - EDTA	Ę
Site:	SSOW#:				Other:	í.
Samula Idontification	Sample	Matrix (Wirwater, Sasolid, Sasolid, Fillered	700_SIM_MS.	o 1edmuN le		
can be continued to	Sample Date Time G=grab)	ation Code:	-	901	Special Instructions/Note:	lote:
Influent	3/20/22 1739 (5)	Water	1	X u		
Post Column 1	1745	-				
	1753 6		Y X) (
Effluent	→ 1905 O	ラ	X) h		
Trip Blank	1	Water	×			
/						
The state of the s				480-19	480-196310 Chain of Custody	
Possible Hazard Identification						
Non-Hazard Flammable Skin Irritant Poison B	on B Unknown Radiological		Return To Client	essed if samples are re	tained longer than 1 month) Archive For	
reconstruction (specify)		Spe	Special Instructions/QC Requirements			
Empty Kit Kelinguished by: Relinguished by:	Date:	Time:	(Method of Shipment:		
Railin Hall Willed	3/30/22 1856	Company	Received by:	Date/Time:	1817 Company	
Palinnished by Kagli h	3-31-22, 1900	Company	Received By:	Date/Time:		
		Company	Received by	Date/Time:	Company	
Custody Seals Infact: Custody Seal No.: A Yes A No			Cooler Temperature(s) °C and Other Remarks:	Remarks:		
					Ver: 06/08/2021	2021

EUROTINS BUffalo

Login Sample Receipt Checklist

Client: Tetra Tech GEO Job Number: 480-196310-1

Login Number: 196310 List Source: Eurofins Buffalo

List Number: 1

Creator: Yeager, Brian A

Question Answer Comment Radioactivity either was not measured or, if measured, is at or below background True The cooler's custody seal, if present, is intact. True The cooler or samples do not appear to have been compromised or tampered with. True Samples were received on ice. True Cooler Temperature is acceptable. True Cooler Temperature is recorded. True COC is present. True COC is filled out in ink and legible. True COC is filled out with all pertinent information. True Is the Field Sampler's name present on COC? True There are no discrepancies between the sample IDs on the containers and the COC. True Samples are received within Holding Time (Excluding tests with immediate HTs). True Sample containers have legible labels. True Containers are not broken or leaking. True Sample collection date/times are provided. True Appropriate sample containers are used. True Sample bottles are completely filled. True Sample vials do not have headspace or bubble is <6mm (1/4") in diameter. True
background The cooler's custody seal, if present, is intact. True cooler or samples do not appear to have been compromised or tampered with. Samples were received on ice. True Cooler Temperature is acceptable. True Cooler Temperature is recorded. True COC is present. True COC is present. True COC is filled out in ink and legible. True COC is filled out with all pertinent information. True Is the Field Sampler's name present on COC? True There are no discrepancies between the sample IDs on the containers and the COC. Samples are received within Holding Time (Excluding tests with immediate HTs) Sample containers have legible labels. True Containers are not broken or leaking. True Sample collection date/times are provided. True Sample bottles are completely filled. True Sample Preservation Verified True MS/MSDs VOA sample vails do not have headspace or bubble is <6mm (1/4") in diameter. If necessary, staff have been informed of any short hold time or quick TAT reed Multiphasic samples are not present. True True True Samples do not require splitting or compositing. True
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MS/MSDs VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter. If necessary, staff have been informed of any short hold time or quick TAT needs Multiphasic samples are not present. True Samples do not require splitting or compositing. True
diameter. If necessary, staff have been informed of any short hold time or quick TAT needs Multiphasic samples are not present. Samples do not require splitting or compositing. True
needs Multiphasic samples are not present. Samples do not require splitting or compositing. True
Samples do not require splitting or compositing.
Sampling Company provided. True TETRA TECH
Samples received within 48 hours of sampling.
Samples requiring field filtration have been filtered in the field.
Chlorine Residual checked. N/A

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APRIL 6, 2022 COMLPLETE ANALYTICAL RESULTS



Environment Testing America

ANALYTICAL REPORT

Eurofins Buffalo 10 Hazelwood Drive Amherst, NY 14228-2298 Tel: (716)691-2600

Laboratory Job ID: 480-196514-1 Client Project/Site: GE Pompey

For:

Tetra Tech GEO 175 N Corporate Drive Suite 100 Brookfield, Wisconsin 53045

Attn: Michael Noel

f

Authorized for release by: 4/21/2022 1:41:11 PM

Rebecca Jones, Project Management Assistant I Rebecca. Jones @ et.eurofinsus.com

Designee for

Brian Fischer, Manager of Project Management (716)504-9835

Brian.Fischer@et.eurofinsus.com

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Client: Tetra Tech GEO Project/Site: GE Pompey Laboratory Job ID: 480-196514-1

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Sample Summary

Client: Tetra Tech GEO

Job ID: 480-196514-1

Project/Site: GE Pompey

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-196514-1	INFLUENT	Water	04/06/22 10:02	04/07/22 10:00
480-196514-2	POST COLUMN 1	Water	04/06/22 12:57	04/07/22 10:00
480-196514-3	POST COLUMN 2	Water	04/06/22 13:10	04/07/22 10:00
480-196514-4	EFFLUENT	Water	04/06/22 13:16	04/07/22 10:00
480-196514-5	TRIP BLANK	Water	04/06/22 00:00	04/07/22 10:00

Method Summary

Client: Tetra Tech GEO Job ID: 480-196514-1 Project/Site: GE Pompey

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	TAL BUF
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL BUF = Eurofins Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Definitions/Glossary

Client: Tetra Tech GEO Job ID: 480-196514-1

Project/Site: GE Pompey

Glossary

DL, RA, RE, IN

Abbreviation	These commonly used abbreviations may or may not be present in this report.			
n	Listed under the "D" column to designate that the result is reported on a dry weight basis			
%R	Percent Recovery			
CFL	Contains Free Liquid			
CFU	Colony Forming Unit			
CNF	Contains No Free Liquid			
DER	Duplicate Error Ratio (normalized absolute difference)			
Dil Fac	Dilution Factor			
DL	Detection Limit (DoD/DOE)			

Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample

DLC Decision Level Concentration (Radiochemistry)

EDL Estimated Detection Limit (Dioxin)

LOD Limit of Detection (DoD/DOE)
LOQ Limit of Quantitation (DoD/DOE)
MCL EPA recommended "Maximum Co

MCL EPA recommended "Maximum Contaminant Level"

MDA Minimum Detectable Activity (Radiochemistry)

MDC Minimum Detectable Concentration (Radiochemistry)

MDL Method Detection Limit
ML Minimum Level (Dioxin)
MPN Most Probable Number
MQL Method Quantitation Limit

NC Not Calculated

ND Not Detected at the reporting limit (or MDL or EDL if shown)

NEG Negative / Absent
POS Positive / Present
PQL Practical Quantitation Limit

PRES Presumptive
QC Quality Control

RER Relative Error Ratio (Radiochemistry)

RL Reporting Limit or Requested Limit (Radiochemistry)

RPD Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin)
TEQ Toxicity Equivalent Quotient (Dioxin)

TNTC Too Numerous To Count

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Case Narrative

Client: Tetra Tech GEO

Job ID: 480-196514-1

Project/Site: GE Pompey

Job ID: 480-196514-1

Laboratory: Eurofins Buffalo

Narrative

Job Narrative 480-196514-1

Comments

No additional comments.

Receipt

The samples were received on 4/7/2022 10:00 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.7° C.

GC/MS VOA

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: INFLUENT (480-196514-1). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-620950 recovered outside acceptance criteria, low biased, for trans-1,2-Dichloroethene. A reporting limit (RL) standard was analyzed, and the target analytes are detected. Since the associated samples were non-detect for the analyte, the data are reported. The associated samples are impacted: INFLUENT (480-196514-1), POST COLUMN 1 (480-196514-2), POST COLUMN 2 (480-196514-3), EFFLUENT (480-196514-4) and TRIP BLANK (480-196514-5).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

Method 8270D SIM ID: The following samples were diluted to bring the concentration of target analytes within the calibration range: INFLUENT (480-196514-1), POST COLUMN 1 (480-196514-2) and POST COLUMN 2 (480-196514-3). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

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Detection Summary

Client: Tetra Tech GEO Job ID: 480-196514-1

Project/Site: GE Pompey

Client Sample ID: INFLUE	NT				Lab	480-196514-1		
Analyte	Result Qualifier	RL	MDL	Unit	Dil Fac	D N	Method	Prep Type
1,1-Dichloroethane	19	4.0	1.5	ug/L	4	_ 8	3260C	Total/NA
cis-1,2-Dichloroethene	140	4.0	3.2	ug/L	4	8	3260C	Total/NA
Trichloroethene	4.0	4.0	1.8	ug/L	4	8	3260C	Total/NA

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	19		4.0	1.5	ug/L	4	_	8260C	Total/NA
cis-1,2-Dichloroethene	140		4.0	3.2	ug/L	4		8260C	Total/NA
Trichloroethene	4.0		4.0	1.8	ug/L	4		8260C	Total/NA
Vinyl chloride	4.1		4.0	3.6	ug/L	4		8260C	Total/NA
1,4-Dioxane	67		2.0	1.0	ug/L	10		8270D SIM ID	Total/NA

Client Sample ID: POST COLUMN 1							La	b S	Sample I	D: 480	0-196514-2
	Analyte	Result	Qualifier	RL	MDL (Jnit	Dil Fac	D	Method		Prep Type

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D Metho	od	Prep Type
1,4-Dioxane	89		2.0	1.0	ug/L	10	82701	D SIM ID	Total/NA
lient Sample ID: POST	COLUMN 2					Lak	Samp	ole ID: 4	80-196514
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D Meth	od	Prep Type
1,4-Dioxane	71		2.0	1.0	ug/L	10	8270	D SIM ID	Total/NA
lient Sample ID: EFFLU	JENT					Lat	Samp	ole ID: 4	80-196514
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D Meth	od	Prep Type
	15		0.20	0.10	ug/L			D SIM ID	Total/NA

Client Sample ID: TRIP BLANK	Lab Sample ID: 480-196514-5

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Tetra Tech GEO Job ID: 480-196514-1

Project/Site: GE Pompey

Client Sample ID: INFLUENT

Lab Sample ID: 480-196514-1 Date Collected: 04/06/22 10:02

Matrix: Water

Date Received: 04/07/22 10:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		4.0	3.3	ug/L			04/08/22 19:19	4
1,1-Dichloroethane	19		4.0	1.5	ug/L			04/08/22 19:19	4
1,1-Dichloroethene	ND		4.0	1.2	ug/L			04/08/22 19:19	4
Chloromethane	ND		4.0	1.4	ug/L			04/08/22 19:19	4
cis-1,2-Dichloroethene	140		4.0	3.2	ug/L			04/08/22 19:19	4
Ethylbenzene	ND		4.0	3.0	ug/L			04/08/22 19:19	4
m,p-Xylene	ND		8.0	2.6	ug/L			04/08/22 19:19	4
o-Xylene	ND		4.0	3.0	ug/L			04/08/22 19:19	4
Tetrachloroethene	ND		4.0	1.4	ug/L			04/08/22 19:19	4
Toluene	ND		4.0	2.0	ug/L			04/08/22 19:19	4
trans-1,2-Dichloroethene	ND		4.0	3.6	ug/L			04/08/22 19:19	4
Trichloroethene	4.0		4.0	1.8	ug/L			04/08/22 19:19	4
Vinyl chloride	4.1		4.0	3.6	ug/L			04/08/22 19:19	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		77 - 120			_		04/08/22 19:19	4
4-Bromofluorobenzene (Surr)	97		73 - 120					04/08/22 19:19	4
Toluene-d8 (Surr)	97		80 - 120					04/08/22 19:19	4
Dibromofluoromethane (Surr)	92		75 - 123					04/08/22 19:19	4

Method: 8270D SIM ID - Semivola	tile Organic C	ompounds	(GC/MS SIM	/ Isotope D	ilution)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	67		2.0	1.0	ug/L		04/08/22 14:44	04/12/22 11:02	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	35		15 - 110				04/08/22 14:44	04/12/22 11:02	10

Client: Tetra Tech GEO Job ID: 480-196514-1

Project/Site: GE Pompey

trans-1,2-Dichloroethene

Trichloroethene

Vinyl chloride

Client Sample ID: POST COLUMN 1

Date Collected: 04/06/22 12:57 Date Received: 04/07/22 10:00

ND

ND

ND

Lab Sample ID: 480-196514-2 Matrix: Water

04/08/22 19:41

04/08/22 19:41

04/08/22 19:41

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result Qualifier	RL	MDL Unit	D Prepared	Analyzed	Dil F
1,1,1-Trichloroethane	ND ND	1.0	0.82 ug/L		04/08/22 19:41	
1,1-Dichloroethane	ND	1.0	0.38 ug/L		04/08/22 19:41	
1,1-Dichloroethene	ND	1.0	0.29 ug/L		04/08/22 19:41	
Chloromethane	ND	1.0	0.35 ug/L		04/08/22 19:41	
cis-1,2-Dichloroethene	ND	1.0	0.81 ug/L		04/08/22 19:41	
Ethylbenzene	ND	1.0	0.74 ug/L		04/08/22 19:41	
m,p-Xylene	ND	2.0	0.66 ug/L		04/08/22 19:41	
o-Xylene	ND	1.0	0.76 ug/L		04/08/22 19:41	
Tetrachloroethene	ND	1.0	0.36 ug/L		04/08/22 19:41	
Toluene	ND	1.0	0.51 ug/L		04/08/22 19:41	

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111	77 - 120		04/08/22 19:41	1
4-Bromofluorobenzene (Surr)	97	73 - 120		04/08/22 19:41	1
Toluene-d8 (Surr)	99	80 - 120		04/08/22 19:41	1
Dibromofluoromethane (Surr)	94	75 - 123		04/08/22 19:41	1

1.0

1.0

1.0

0.90 ug/L

0.46 ug/L

0.90 ug/L

Method: 8270D SIM ID - Semivolatil	e Organic C	ompounds	(GC/MS SIM /	Isotope D	ilution)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	89		2.0	1.0	ug/L		04/08/22 14:44	04/12/22 11:24	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	31		15 - 110				04/08/22 14:44	04/12/22 11:24	10

Client: Tetra Tech GEO Job ID: 480-196514-1

Project/Site: GE Pompey

Client Sample ID: POST COLUMN 2

Date Collected: 04/06/22 13:10

Lab Sample ID: 480-196514-3 Matrix: Water

Date Received: 04/07/22 10:00

Method: 8260C - Volatile Orga	nic Compounds I	y GC/MS							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/08/22 20:04	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			04/08/22 20:04	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			04/08/22 20:04	1
Chloromethane	ND		1.0	0.35	ug/L			04/08/22 20:04	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			04/08/22 20:04	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/08/22 20:04	1
m,p-Xylene	ND		2.0	0.66	ug/L			04/08/22 20:04	1
o-Xylene	ND		1.0	0.76	ug/L			04/08/22 20:04	1
Tetrachloroethene	ND		1.0	0.36	ug/L			04/08/22 20:04	1
Toluene	ND		1.0	0.51	ug/L			04/08/22 20:04	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/08/22 20:04	1
Trichloroethene	ND		1.0	0.46	ug/L			04/08/22 20:04	1
Vinyl chloride	ND		1.0	0.90	ug/L			04/08/22 20:04	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		77 - 120			-		04/08/22 20:04	1
4-Bromofluorobenzene (Surr)	97		73 - 120					04/08/22 20:04	1
Toluene-d8 (Surr)	96		80 - 120					04/08/22 20:04	1
Dibromofluoromethane (Surr)	93		75 _ 123					04/08/22 20:04	1

Method: 8270D SIM ID - Semivo	latile Organic C	ompounds	(GC/MS SIM / Is	sotope D	ilution)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	71		2.0	1.0	ug/L		04/08/22 14:44	04/12/22 11:46	10
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	34		15 - 110				04/08/22 14:44	04/12/22 11:46	10

Client: Tetra Tech GEO Job ID: 480-196514-1

Project/Site: GE Pompey

Client Sample ID: EFFLUENT

Lab Sample ID: 480-196514-4 Date Collected: 04/06/22 13:16

Matrix: Water

Date Received: 04/07/22 10:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/08/22 20:27	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			04/08/22 20:27	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			04/08/22 20:27	1
Chloromethane	ND		1.0	0.35	ug/L			04/08/22 20:27	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			04/08/22 20:27	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/08/22 20:27	1
m,p-Xylene	ND		2.0	0.66	ug/L			04/08/22 20:27	1
o-Xylene	ND		1.0	0.76	ug/L			04/08/22 20:27	1
Tetrachloroethene	ND		1.0	0.36	ug/L			04/08/22 20:27	1
Toluene	ND		1.0	0.51	ug/L			04/08/22 20:27	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/08/22 20:27	1
Trichloroethene	ND		1.0	0.46	ug/L			04/08/22 20:27	1
Vinyl chloride	ND		1.0	0.90	ug/L			04/08/22 20:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	109		77 - 120			_		04/08/22 20:27	1
4-Bromofluorobenzene (Surr)	95		73 - 120					04/08/22 20:27	1
Toluene-d8 (Surr)	99		80 - 120					04/08/22 20:27	1
Dibromofluoromethane (Surr)	96		75 - 123					04/08/22 20:27	1

Method: 8270D SIM ID - Semivola	atile Organic C	ompounds	(GC/MS SIM / I	sotope D	ilution)				
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	15		0.20	0.10	ug/L		04/08/22 14:44	04/11/22 13:54	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	31		15 _ 110				04/08/22 14:44	04/11/22 13:54	1

Eurofins Buffalo

Client: Tetra Tech GEO Job ID: 480-196514-1

Project/Site: GE Pompey

Client Sample ID: TRIP BLANK

Date Received: 04/07/22 10:00

Lab Sample ID: 480-196514-5 Date Collected: 04/06/22 00:00

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/08/22 20:50	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			04/08/22 20:50	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			04/08/22 20:50	1
Chloromethane	ND		1.0	0.35	ug/L			04/08/22 20:50	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			04/08/22 20:50	1
Ethylbenzene	ND		1.0	0.74	ug/L			04/08/22 20:50	1
m,p-Xylene	ND		2.0	0.66	ug/L			04/08/22 20:50	1
o-Xylene	ND		1.0	0.76	ug/L			04/08/22 20:50	1
Tetrachloroethene	ND		1.0	0.36	ug/L			04/08/22 20:50	1
Toluene	ND		1.0	0.51	ug/L			04/08/22 20:50	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/08/22 20:50	1
Trichloroethene	ND		1.0	0.46	ug/L			04/08/22 20:50	1
Vinyl chloride	ND		1.0	0.90	ug/L			04/08/22 20:50	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120			-		04/08/22 20:50	1
4-Bromofluorobenzene (Surr)	99		73 - 120					04/08/22 20:50	1
Toluene-d8 (Surr)	97		80 - 120					04/08/22 20:50	1
Dibromofluoromethane (Surr)	90		75 - 123					04/08/22 20:50	1

Surrogate Summary

Client: Tetra Tech GEO Job ID: 480-196514-1 Project/Site: GE Pompey

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water Prep Type: Total/NA

			Percent Surrogate Recovery				
		DCA	BFB	TOL	DBFM		
Lab Sample ID	Client Sample ID	(77-120)	(73-120)	(80-120)	(75-123)		
480-196514-1	INFLUENT	107	97	97	92		
480-196514-2	POST COLUMN 1	111	97	99	94		
480-196514-3	POST COLUMN 2	107	97	96	93		
480-196514-4	EFFLUENT	109	95	99	96		
480-196514-5	TRIP BLANK	104	99	97	90		
LCS 480-620950/5	Lab Control Sample	105	100	99	91		
MB 480-620950/7	Method Blank	104	99	98	93		

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

DBFM = Dibromofluoromethane (Surr)

Client: Tetra Tech GEO Job ID: 480-196514-1 Project/Site: GE Pompey

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-620950/7

Matrix: Water

Analysis Batch: 620950

Client Sample ID: Method Blank

Prep Type: Total/NA

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			04/08/22 12:51	
1,1-Dichloroethane	ND		1.0	0.38	ug/L			04/08/22 12:51	
1,1-Dichloroethene	ND		1.0	0.29	ug/L			04/08/22 12:51	
Chloromethane	ND		1.0	0.35	ug/L			04/08/22 12:51	
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			04/08/22 12:51	
Ethylbenzene	ND		1.0	0.74	ug/L			04/08/22 12:51	
m,p-Xylene	ND		2.0	0.66	ug/L			04/08/22 12:51	
o-Xylene	ND		1.0	0.76	ug/L			04/08/22 12:51	
Tetrachloroethene	ND		1.0	0.36	ug/L			04/08/22 12:51	
Toluene	ND		1.0	0.51	ug/L			04/08/22 12:51	
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			04/08/22 12:51	
Trichloroethene	ND		1.0	0.46	ug/L			04/08/22 12:51	
Vinyl chloride	ND		1.0	0.90	ug/L			04/08/22 12:51	

MB MB

Surrogate	%Recovery	Qualifier	Limits	1	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120			04/08/22 12:51	1
4-Bromofluorobenzene (Surr)	99		73 - 120			04/08/22 12:51	1
Toluene-d8 (Surr)	98		80 - 120			04/08/22 12:51	1
Dibromofluoromethane (Surr)	93		75 - 123			04/08/22 12:51	1

Lab Sample ID: LCS 480-620950/5

Matrix: Water

Analysis Batch: 620950

Client Sample ID: Lab Control Sample Prep Type: Total/NA

	Spike	LCS	LCS				%Rec
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,1,1-Trichloroethane	25.0	20.9		ug/L		84	73 - 126
1,1-Dichloroethane	25.0	21.7		ug/L		87	77 - 120
1,1-Dichloroethene	25.0	20.2		ug/L		81	66 - 127
Chloromethane	25.0	20.9		ug/L		83	68 - 124
Ethylbenzene	25.0	26.2		ug/L		105	77 - 123
Tetrachloroethene	25.0	23.4		ug/L		94	74 - 122
Toluene	25.0	24.6		ug/L		99	80 - 122
trans-1,2-Dichloroethene	25.0	19.3		ug/L		77	73 - 127
Trichloroethene	25.0	23.3		ug/L		93	74 - 123
Vinyl chloride	25.0	20.5		ug/L		82	65 - 133

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		77 - 120
4-Bromofluorobenzene (Surr)	100		73 - 120
Toluene-d8 (Surr)	99		80 - 120
Dibromofluoromethane (Surr)	91		75 - 123

Client: Tetra Tech GEO Job ID: 480-196514-1

Project/Site: GE Pompey

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: MB 480-621020/1-A Client Sample ID: Method Blank Prep Type: Total/NA

Matrix: Water Analysis Batch: 621161

Analysis Batch: 621161

MB MB Dil Fac Analyte Result Qualifier RL MDL Unit D Prepared Analyzed

ND

04/11/22 10:57 1,4-Dioxane 0.20 0.10 ug/L 04/08/22 14:44 MB MB

Isotope Dilution %Recovery Qualifier Limits Prepared Analyzed Dil Fac 15 - 110 04/08/22 14:44 1,4-Dioxane-d8 37 04/11/22 10:57

Lab Sample ID: LCS 480-621020/2-A **Client Sample ID: Lab Control Sample**

Matrix: Water Prep Type: Total/NA

Prep Batch: 621020

Prep Batch: 621020

LCS LCS Spike %Rec

Analyte Added Qualifier Limits Result Unit %Rec 1,4-Dioxane 2.00 2.19 ug/L 109 40 - 140

LCS LCS

Isotope Dilution %Recovery Qualifier Limits 1,4-Dioxane-d8 15 - 110 37

Lab Sample ID: LCSD 480-621020/3-A Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA Analysis Batch: 621161 Prep Batch: 621020

Spike LCSD LCSD %Rec RPD RPD Limits

Limit Analyte Added Result Qualifier %Rec Unit D 1,4-Dioxane 2.00 2.23 ug/L 112 40 - 140 20

Isotope Dilution %Recovery Qualifier Limits

LCSD LCSD

1,4-Dioxane-d8 40 15 - 110

QC Association Summary

Client: Tetra Tech GEO Job ID: 480-196514-1 Project/Site: GE Pompey

GC/MS VOA

Analysis Batch: 620950

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-196514-1	INFLUENT	Total/NA	Water	8260C	
480-196514-2	POST COLUMN 1	Total/NA	Water	8260C	
480-196514-3	POST COLUMN 2	Total/NA	Water	8260C	
480-196514-4	EFFLUENT	Total/NA	Water	8260C	
480-196514-5	TRIP BLANK	Total/NA	Water	8260C	
MB 480-620950/7	Method Blank	Total/NA	Water	8260C	
LCS 480-620950/5	Lab Control Sample	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 621020

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-196514-1	INFLUENT	Total/NA	Water	3510C	
480-196514-2	POST COLUMN 1	Total/NA	Water	3510C	
480-196514-3	POST COLUMN 2	Total/NA	Water	3510C	
480-196514-4	EFFLUENT	Total/NA	Water	3510C	
MB 480-621020/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-621020/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 480-621020/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 621161

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-196514-4	EFFLUENT	Total/NA	Water	8270D SIM ID	621020
MB 480-621020/1-A	Method Blank	Total/NA	Water	8270D SIM ID	621020
LCS 480-621020/2-A	Lab Control Sample	Total/NA	Water	8270D SIM ID	621020
LCSD 480-621020/3-A	Lab Control Sample Dup	Total/NA	Water	8270D SIM ID	621020

Analysis Batch: 621325

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-196514-1	INFLUENT	Total/NA	Water	8270D SIM ID	621020
480-196514-2	POST COLUMN 1	Total/NA	Water	8270D SIM ID	621020
480-196514-3	POST COLUMN 2	Total/NA	Water	8270D SIM ID	621020

Accreditation/Certification Summary

Client: Tetra Tech GEO

Job ID: 480-196514-1

Project/Site: GE Pompey

Laboratory: Eurofins Buffalo

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	03-31-23

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Isotope Dilution Summary

Client: Tetra Tech GEO

Job ID: 480-196514-1

Project/Site: GE Pompey

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water Prep Type: Total/NA

			Percent Isotope Dilution Recovery (Acceptance Limits)
		DXE	
Lab Sample ID	Client Sample ID	(15-110)	
480-196514-1	INFLUENT	35	
480-196514-2	POST COLUMN 1	31	
480-196514-3	POST COLUMN 2	34	
480-196514-4	EFFLUENT	31	
LCS 480-621020/2-A	Lab Control Sample	37	
LCSD 480-621020/3-A	Lab Control Sample Dup	40	
MB 480-621020/1-A	Method Blank	37	
Surrogate Legend			

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