REMEDIAL ACTION WORK PLAN ADDENDUM AND REMEDIAL DESIGN REPORT

27-09 40th Avenue
Long Island City, Queens, New York
NYSDEC Site No. C241241

Prepared for:

40th Ave Dutch Kills Realty, LLC
38-08 30th Avenue
Astoria, NY 11103

Prepared by:

Liberty Environmental
600 Third Avenue, Second Floor
New York, NY 10016

Liberty Project No. 220192

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I, James P. Cinelli, a licensed Professional Engineer, certify that all of the following statements are true:

- This Remedial Design Report was prepared in accordance with the applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10); and
- The information presented in this report is accurate and complete.

I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, James P. Cinelli, of Liberty Environmental, am certifying as the Owner's Designated Site Representative.

PE Signature and Seal:



Name: James P. Cinelli Date: 10/03/2023

It is a violation of Article 145 of New York State Education Law for any person to alter this document in any way without the express written verification of adoption by any New York State licensed engineer in accordance with Section 7209(2), Article 145, New York State Education Law.

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1. INTRODUCTION

40th Avenue Dutch Kills Realty, LLC (Dutch Kills) retained Liberty Environmental (Liberty) to prepare a Remedial Action Work Plan Addendum and Remedial Design Report for planned remedial activities at 27-09 40th Avenue, Long Island City, Queens, New York (the Site). The report was prepared as a follow up to the Remedial Action Work Plan (RAWP) dated May 2021. The planned cleanup activities are being conducted in accordance with the New York State Department of Environmental Conservation (NYSDEC) Decision Document for Site No C241241 issued in May 2021, approving the selected remedy for the Site.

The Site is 0.40 acre and is being redeveloped into a mixed-use building consisting of commercial and residential spaces. The proposed redevelopment plan for the new five-story building includes a below-grade two-level parking garage with a mechanical storage room, commercial space on the first-floor and residential apartments from floors two through five. The selected remedy includes the excavation and off-site disposal of approximately 4,500 cubic yards of contaminated soil, backfilling of the site with clean fill to establish the design grades, operation of an SVE system to remove chlorinated volatile organic compounds (CVOCs) from the subsurface and to prevent vapors migrating off-site, installation of a permeable reactive barrier (PRB) at the downgradient boundary to remediate groundwater leaving the Site, injection of reducing and oxidizing chemical compounds to remediate CVOCs in groundwater beneath the Site, and installation of a subslab depressurization system (SSDS) beneath the proposed on-Site building to mitigate the migration of vapors into the building from the subsurface.

A deviation from the RAWP and Decision Document occurred in the AOC-2 hot spot soil excavation. The RAWP and Decision Document reflected the maximum expected excavation depth of 33’ to 36’ in the area of AOC-2b and 2c. PCE was detected at those depths below unrestricted SCOs but had not been fully vertically delineated between 17’ and 33’ (AOC-2b) or 36’ (AOC-2c). As excavation progressed, endpoint sampling demonstrated that the excavation was successful and achieved unrestricted SCOs were achieved at 23’, therefore deeper excavations to 33’ and 36’ were not necessary, nor was an unsaturated zone in-situ chemical reduction (ISCR) remediation. The project structural engineer advised that additional excavation could cause damage to the support of excavation system. In lieu of the ISCR remediation, two additional ISCO injection wells were installed in the location of AOC-2b and AOC-2c.

This report provides details on the proposed remedial system design, installation, operation, and performance monitoring. This document has been prepared for NYSDEC review and approval before proceeding with the implementation of the proposed remedy.

1.1 PURPOSE AND SCOPE

The previous investigative work confirmed the presence of elevated dry cleaning solvent tetrachloroethylene (PCE) in soil, groundwater, and soil vapor at the Site. The pilot studies included SVE and ISCO pilot tests. Excavation of Site soil for the purpose of Site redevelopment served to remediate the CVOCs in the soil media. Both the SVE and ISCO pilot tests were demonstrated as viable options for remediating groundwater and mitigating vapor migration and will be incorporated into the remedial design to achieve the cleanup remedy.

2. SITE DESCRIPTION AND BACKGROUND

2.1 Site Description

The Site consists of three adjoining lots identified as Block 397 and Lots 33, 35, and 39 on the New York City Tax Map. The Site is approximately 17,500 square feet (0.40 acre) and is bounded by 40th Avenue to the south, 28th Street to the east, a three-story residential building with an automobile garage to the north, and a three-story residential building to the west. A Site Location Map is provided as Figure 1.

The Site is currently undeveloped, but past operations have included a dry cleaner, an automotive repair and machine shop businesses, a glass factory, woodworking, and a photo-engraving shop. Previously, it was developed with three vacant one-story commercial structures with one structure per lot. The buildings were constructed circa 1947 (39-44 28th Street), 1950 (27-09/11 40th Avenue), and 1970 (27-03 40th Avenue) and were constructed with concrete slabs-on-grade. The building at 39-44 28th Street had a partial basement present at the northern end of the structure. The buildings have been demolished. The owner of the site, 40th Avenue Dutch Kills Realty, LLC, has entered the site in the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program. NYSDEC approved a Remedial Action Work Plan (RWP) for the site on May 26, 2021.

2.2 Background

The Remedial Investigation Report prepared by Athenica Environmental Services, Inc. in August 2019 indicated the localized presence of PCE in soils in at least three areas on the Site, at depths varying from 20 to 27 feet, and the presence of chlorinated aliphatic hydrocarbon related-constituents in soil vapor and groundwater throughout the property. Metals, SVOCs, and pesticides were also identified in the Site soil. Available information indicates that there are potentially upgradient sources that may have contributed to the presence of PCE in groundwater migrating onto the Site.

In general, contaminated historic fill material is present at the Site, underlain by fine to medium silty sands and silt layers, which overlie thick, competent, plastic clay at approximately 31 to 36 feet bgs. The high plasticity clay layer dips significantly towards the west and may be about 10 to 15 feet thick. The high plasticity clay acts as a hydraulic boundary layer.

As part of the Supplemental Remedial Investigation (SRI) performed by Laurel Environmental Geosciences DPC in November 2020, 55 soil samples were collected and analyzed throughout the Site. In addition, ten groundwater monitoring wells were installed on-Site and off-Site as part of the SRI and sampled and analyzed to address data gaps in groundwater quality and to confirm localized groundwater flow direction. Four off-Site permanent groundwater monitoring wells were installed in sidewalks and driveways adjoining the Site. Eight soil vapor samples (four on-site and four off-site) were collected and analyzed.

3. SVE AND ISCO PILOT TEST RESULTS

SVE and ISCO pilot testing was completed at the Site from October to November 2022 to the Site's suitability for these proposed technologies. The pilot studies consisted of installing two temporary SVE extraction points, six vapor extraction monitoring points, two injection wells, and six injection monitoring points. The results of these pilot tests were used to determine a radius of influence established by the application of a vacuum to the vadose zone and the injection of liquid remedial compounds to the saturated zone. Pilot testing results were summarized in the *ISCO/SVE Pilot Test Summary Report* that was submitted to the NYSDEC on November 21, 2022. Supplemental groundwater monitoring to demonstrate ISCO effectiveness was conducted following the submittal of the pilot test report. The results of this testing indicated that both SVE and ISCO technologies are viable remedial technologies for achieving the selected remedial goals at the Site.

3.1 SVE Pilot Test Summary

On November 3 and 8, 2022 SVE pilot testing was performed at the Site by Liberty to determine the feasibility of SVE as a remedial approach, and to determine the achievable radius of influence (ROI) when a vacuum is applied to a well screened across the vadose zone. SVE pilot testing was performed in two locations on the Site. Pilot extraction well SVE-1 was located near the northern property boundary and SVE-2 was located near the western property boundary. Both extraction wells were installed on October 31, 2022, through November 3, 2022 with a diameter of 2 inches and a depth of 30 feet below street level (bsg)(a bottom elevation of 12.00'). Three vacuum monitoring points were installed at each SVE pilot test location (EMP-1A, EMP-1B, EMP-1C, EMP-2A, EMP-2B, EMP-2C). Each monitoring point was 1-inch in diameter, 30 feet deep (or 30' bsg - a bottom elevation of 12.00'), and installed at 10, 20, and 35 feet from the extraction wells.

A single test was conducted at each of the two extraction wells. The testing durations were 60 minutes for SVE-1 and 70 minutes for SVE-2. A 7.5 horsepower regenerative blower was utilized at SVE-2 on November 3, 2022. A 5-horsepower regenerative blower was utilized at SVE-1 on November 8, 2022. The blowers were capable of creating a vacuum of 20 inches of water column (in. w.c.) and airflow rates of 140 cubic feet per minute (cfm) at the wellheads.

During both SVE pilot tests, a vacuum response of at least 0.1 in. w.c. was recorded at all three monitoring points. An ROI of 43 feet was calculated for SVE-1 and 47 feet for SVE-2. An ROI of 40 feet was used to determine SVE well spacing for design, as described further below.

3.2 ISCO Pilot Test Summary

The ISCO pilot test was performed at two locations of the Site. Prior to the installation of temporary injection and observation wells, a soil sample of non-contaminated soil was collected on October 25, 2021 from a soil boring advanced on the western side of the Site and analyzed to determine a site-specific soil oxidant demand (SOD). A pre-injection groundwater sampling event was also completed on October 25, 2022 by Laurel Environmental, and samples were analyzed for VOCs, metals (arsenic, chromium, iron, calcium, magnesium, and manganese), and anions (chloride, sulfate, nitrate). These aqueous samples were collected from existing monitoring wells

MW-103, MW-105, MW-106, MW-107, MW-108, MW-109, and MW-110 (all of these monitoring wells have been removed via excavation of the Site).

The injection wells and observation wells were installed on October 31, 2022, through November 3, 2022. At both locations, one 2-inch diameter injection well and three 2-inch diameter observation wells were installed with a depth of 45 feet bsg (a bottom elevation of -3.00'). Injection pilot well IW-1 was located along the southcentral portion of Site and injection pilot well IW-2 was located on the eastern portion of the site. Two observation wells were installed at 10 and 20 feet from each of the injection pilot wells, and a third observation well was installed perpendicular at 10 feet from each injection pilot well. The observation wells were identified as IMP-1A, IMP-1B, IMP-1C, IMP-2A, IMP-2B, and IMP-2C. Also, existing monitoring wells located approximately 20 feet from the injection pilot wells (MW-105, MW-106) were used for pilot test monitoring. Following the installation of the pilot wells, a hydraulic test was performed on November 8, 2022 to determine the rate, pressure and ROI of the water into the receiving formation. For this hydraulic test, 300 gallons of water was injected into both wells at 20 psi.

The ISCO injection events were performed on November 10 and 11, 2022. Sodium persulfate and a sodium hydroxide activator were mixed with water in four 300-gallon batches, then injected into each injection well. Water levels in surrounding observation wells were monitored with an electric water level meter. The remedial solution was injected at rates ranging from 4.3 to 11.5 gallons per minute (gpm) and at a pressure of 10 psi.

The SOD laboratory analysis results were reported to be similar to the projected value of 0.40 g persulfate/kg of dry soil. At this injection rate, the volumes of sodium persulfate and sodium hydroxide will meet the demands of the COCs and the non-target demand associated with the soil.

Post-injection groundwater sampling events were completed on December 1st, 2022 and February 14, 2023. The ISCO and SVE Pilot Test report is included in Appendix D. The groundwater quality data summary table, and data usability summary report are included in Appendix E.

4. REMEDIAL DESIGN

The remedial design for the site will include four elements: a sub-slab depressurization system (SSDS) to mitigate vapor intrusion into the proposed on-site building, a soil vapor extraction system (SVE) to remediate vapors off-gassing from the CVOC-impacted groundwater and to control off-site migration of CVOC vapors, in-situ chemical oxidation (ISCO) to treat CVOC-impacted groundwater at source areas, and a downgradient permeable reactive barrier (PRB) to inhibit off-site migration of CVOCs in groundwater. The following subsections describe the design for each of these remedial actions. A deviation from the RAWP and Decision Document occurred for AOC-2. The maximum soil excavation in this AOC was 23' bsg (elevation 18.67') where endpoint samples demonstrated that the excavation was successful. Therefore, deeper soil excavation was not necessary, nor is the unsaturated zone in-situ chemical reduction (ISCR) remediation.

4.1 SVE System

Despite the removal of CVOC-impacted soil by excavation, the presence of dissolved-phase constituents remaining in groundwater may represent a continued source of vapors to nearby receptors. The SVE system will be operated to remediate vapors off-gassing from groundwater and mitigating the potential for off-site mitigation of vapors. The contaminant mass at the site consists mainly of CVOCs, which have relatively high vapor pressures.

The November 2022 SVE pilot test demonstrated that site conditions are favorable for the application of SVE technology to extract vapors from the subsurface, which will control the off-site migration of vapor. The full-scale SVE system will consist of six SVE extraction wells (SVE-1, SVE-2, SVE-3, SVE-4, SVE-5, and SVE-6) at the locations shown on the layout drawing provided in Appendix A. This system layout was developed to achieve vacuum influence along the south, west, and north sides of the Site. The 40-foot SVE ROI represents a conservative estimate based on pilot test data. The SVE ROI is shown in Figure 2.

The six SVE wells will be constructed of 3-inch diameter, Schedule 40 PVC casing with 0.02-inch standard machine-slotted screens. The total depths, riser length and screen length will vary based on the depth to groundwater at each well location. Total depths are expected to range between 7 and 13 feet below the subcellar (elevation 11.00' to 5.00'). Well depths will be maintained at least two feet above groundwater elevation to avoid upwelling and submergence of the well screen. The wells will be constructed with 5 feet of slotted screen with a solid riser to the surface up or as a stick-up. A well-graded sand filter pack (#1) will be installed in the annular space surrounding the well screen to a depth of approximately 1 foot above the top of the screen. A hydrated bentonite pellet seal will be installed above the sand filter pack, and that will be topped by concrete or grout. SVE extraction wells will be completed at the surface within a flush-mounted traffic vault. The Detail Sheet provided in Appendix A provides typical construction details for the proposed SVE wells that will be installed at the Site. The layout and design of the proposed extraction well network and construction of the individual wells may change based on field conditions.

Based on the pilot test data, Liberty has designed the soil vapor extraction portion of the system to operate at a wellhead vacuum of approximately 20 inches of water column (in. w.c.) and a flow

rate of approximately 120 standard cubic feet per minute (scfm) per extraction well. A process and equipment diagram for the SVE system is included in the SVE System Detail Sheet (Appendix A).

A 5-horsepower regenerative blower and other system equipment will be housed in a dedicated room located in the cellar. A diagram of a typical system layout is included on the Detail Sheet (Appendix A). Piping between the SVE wellheads and the system will be installed partially below grade in trenches and partially above grade, as noted on the system layout drawing (Appendix A). Individual vacuum lines will be extended from the system to each of the SVE wells, allowing for simple modifications/ optimization of the system. Above-grade SVE lines will be constructed with 3-inch diameter CPVC pipe with the exception of the manifold and riser pipe, which will be a 6-inch diameter CPVC pipe. Below-grade SVE lines will be constructed with 3-inch diameter CPVC. The system will be exhausted through two granular activated carbon (GAC) drums in series prior to discharge to the atmosphere. A remote-reading monitoring system will consist of Onset Hobo data loggers. These data loggers will be installed to monitor the SVE and SSDS systems for pressure and voltage. Any modifications to SVE operation (from steady state operation to pulsing, or deactivating extraction wells) require approval by NYSDOH and NYSDEC prior to that action being taken.

4.1.1 System Startup

After the SVE wells and associated trenching/piping are installed, the various components of the SVE system will be transported to the Site, assembled and connected to the piping in preparation for system startup. During the system startup phase, the full-scale system will be brought online and run through a series of operational tests. Field personnel will be on site during the first day of startup to monitor system operating parameters (i.e., vacuum, airflow, pressure, and VOC content of influent vapors) and then weekly for the first month, monthly for the first quarter and continue quarterly thereafter. Startup measurements will be used to optimize the system and make any adjustments necessary such that the system operates as designed.

Field personnel will collect an effluent air sample for laboratory analysis after the full-scale system is brought online and system readings have stabilized, within the first 30 days of operation. The effluent sample will be collected from a sample port located on the pressurized side of the system after the blower and before the activated carbon units. An effluent air sample will be obtained using a Summa canister at 30 in. w.c. over a two-hour period for a representative sample of the system running at 20 in. w.c. vacuum. The Summa sample will be sent to a New York State Department of Health (NYSDOH)-certified laboratory to be analyzed for PCE, TCE, cis-1,2-DCE and vinyl chloride, (target CVOCs) via the United States Environmental Protection Agency (USEPA) Method TO-15. Air analytical data will be used to calibrate total VOC concentrations measured in the field with the PID readings by confirming air analytical data is consistent with field PID readings and to provide concentrations of individual constituents. After startup operations are completed and the system is running at the desired operational settings, the standard system operation phase will begin.

4.1.2 Operation, Maintenance, and Monitoring

Following remedial system startup activities, routine operation, maintenance, and monitoring (OM&M) activities will commence. Inspections will be performed weekly for the first month, monthly for the first quarter, and quarterly thereafter to verify the system is performing effectively

by the owner and a qualified environmental professional. OM&M personnel will perform any routine maintenance, complete adjustments as needed, and collect the following system performance monitoring data:

- Pressure, vacuum, temperature, and air flow readings;
- VOC concentrations (by PID) of the system influent vapor stream;
- flow rate, temperature, pressure and VOC concentrations (by PID) at the SVE wellheads routinely to help optimize the system operation.

Following completion of construction, a written OM&M Manual will be prepared and maintained with the system. The SVE OM&M Manual will be incorporated with the Site Management Plan (SMP). System components will be maintained in accordance with the manufacturer's guidance and equipment manuals.

Influent air samples will be collected using a Summa canister at 30 in. w.c. over a 2-hour period as needed, based on significant increases in field PID readings and historical calibration between PID readings and individual constituent concentrations. Samples will be submitted to a NYSDOH-certified laboratory for analysis of the target VOCs via USEPA Method TO-15.

The data recorded during the monthly OM&M visits will be used to estimate the hydrocarbon mass recovery rate and evaluate the system performance. When the data suggest that mass recovery is becoming asymptotic, steps will be taken to try and optimize system performance and increase mass recovery.

Potential system optimization measures may include:

- Deactivating extraction wells with low vapor-phase VOC concentrations, which allows the system to target the wells operating in areas which groundwater monitoring indicates high concentrations of target VOCs.
- Changing the air flow rates and/or vacuum/pressure applied to SVE wells.
- Transitioning to a pulsed method of operation, where the system is repeatedly turned on and then off for specific periods of time (i.e., 4 hours on and 4 hours off) to allow VOC concentrations in groundwater to rebound, create turbulence within the subsurface, and to minimize preferential pathways.

Any modifications to the SVE operation (from steady state operation to pulsing, or deactivating extraction wells) require approval by NYSDOH and NYSDEC prior to an action being taken.

4.2 SSDS

With the removal of the on-site soil source material, the presence of dissolved-phase constituents remaining in groundwater may represent a source of vapor intrusion. The SSDS will be operated to mitigate on-Site vapor intrusion.

The SSDS underground piping will consist of six legs providing influence beneath the building slab. The soil vapor collection zone below the concrete slab will consist of a 4-inch-thick layer of

AASHTO #57 stone with a typical 32-foot long perforated horizontal 3-inch, schedule 40 PVC pipe connected to a solid 3-inch, schedule 40 PVC pipe. The aboveground piping will lead to the fans with a solid 3-inch CPVC pipe. The active SSDS will be hardwired and will include three inline fans (Fantech model Rn4EC-3 or similar), each fan serving two legs of the system installed in the cellar (see the SSDS System Detail Sheet in Appendix A). A suction indicator will be mounted below each of the three fans and tube manometers and valves will be installed on each of the six intakes. The discharge from the three fans will connect to a 6-inch CPVC header that will discharge above the roof line with a 45-degree bend. A remote-reading monitoring system will consist of Onset Hobo data loggers. These data loggers will be installed to monitor the SVE and SSDS systems for pressure and voltage. Specification sheets for the fans, fan failure alarms, and tube manometers are provided in Appendix A.

The SSDS fans and other system equipment will be housed in a dedicated room located in the cellar. A diagram of a typical system layout is included on the SSDS System Detail Sheet (Appendix A). Piping will be installed partially below grade and partially above grade, as noted on the SSDS System Layout Sheet (Appendix A). Piping and system components will be labeled as indicated on the SSDS System Detail Sheet.

4.2.1 PFE Evaluation

After the basement slab and vapor barrier have been installed, an evaluation of newly constructed soil gas collection plenums will be conducted to verify that no changes are needed to the specified SSDS fans. The pressure field extension (PFE) evaluation will include operating the SSDS system and measuring the resulting vacuum within the gas permeable layer at eight locations that will be representative of the vacuum achieved at the farthest reaches from the subgrade perforated pipe. Temporary Vapor Pin® test ports will be installed at the locations shown on both the SVE Layout and SSDS Layout drawings in Appendix A to measure vacuum with a digital manometer. Vapor Pin® specifications are included in Appendix B. The fans will be run at various RPM settings and all evaluation results will be recorded on field logs. A vacuum of 0.01 in. w.c. at the vacuum monitoring points is considered acceptable.

The vacuum measurements will be recorded and compared for evidence of poor effectiveness or inconsistencies in readings among the vacuum monitoring points. If poor effectiveness or inconsistency is indicated, an investigation to identify openings in the soil gas collection plenums and any changes that may be needed for the number and size of SSDS fans.

4.2.2 Operation, Maintenance, and Monitoring

Sub-slab depressurization systems require relatively little maintenance and monitoring. The risers from each of the six legs will be fitted with a valve and tube manometer to balance the applied vacuums among the legs. Additionally, each of the three proposed SSDS fans will have a fan failure alarm installed that will sound in the event of a loss of vacuum. The system will be inspected on a monthly basis and observations recorded on inspection logs.

Following completion of construction, a written OM&M Manual will be prepared and maintained with the system. The SSDS OM&M Manual will be incorporated with the Site Management Plan

(SMP). Monthly inspections of the system operating parameters will be conducted by the owner and a qualified environmental professional will inspect the system quarterly for the first four years. Details on the routine inspections will be described in the SMP. System maintenance and repairs will be performed as needed in accordance with manufacturer's instructions. Manufacturer literature for the fans and fan failure alarms are provided in Appendix B.

Any modifications to the SSDS operation (from steady state operation to pulsing, or deactivating legs) require approval by NYSDOH and NYSDEC prior to an action being taken.

4.3 ISCO TREATMENT

With the removal of the on-site soil source material, the presence of dissolved-phase constituents remaining in groundwater will be remediated by in situ chemical oxidation of the dissolved-phase CVOCs in groundwater. The remediation of the CVOCs in groundwater on the Site will mitigate the migration of CVOCs off-site.

The results of the pilot test indicated that the radius of influence was at least 20 feet from the point of injection to the observation points. Further, the post-pilot test groundwater quality data suggests a significant decrease in CVOCs in several wells. Therefore, the alkaline-activated persulfate (AAP) treatment technology has been demonstrated to be effective in remediating the CVOCs in groundwater at the site.

The full-scale AAP ISCO remedial action will include two transects of injection points oriented perpendicular to the direction of groundwater flow. Each transect will include four injection points spaced 20 feet apart. The injection locations are shown in Figure 3.

4.3.1 Injection Point Installation

The full-scale ISCO remedial action will include the installation of ten injection points (a complete soil remediation was performed in the area of the proposed ISCR wells, as such, to further treat this area, two additional ISCO wells will be installed at the locations of the proposed two ISCR wells). The injection points will be installed prior to the installation of the slab, though the ISCO injection will be performed after the concrete slab is in place. The wells will be placed into the top of the clay zone, at elevations between 9.33' and 1.83', which is approximately 6 to 10 feet into the groundwater table, or two feet into the clay soil zone, whichever is encountered first at each injection point location. The injection wells will be constructed with 5 or 10 feet of 2-inch diameter, schedule 40 PVC well screen (20-slot), and finished with solid riser pipe to the surface of the concrete slab. Well-graded sand will fill the annular space around the well-screen interval. The annular space above the screened interval of the well will be filled with hydrated bentonite to the surface. Each injection point will be completed at the surface with a manhole cover and equipped with a lockable compression cap. See Figure 3 for the layout of the ISCO injection points.

4.3.2 ISCO Injection

The pilot test showed that the ROI was at least 20 feet and that the dosing was effective in treatment the dissolved-phase CVOCs. Additionally, the soil oxidant demand (SOD) test showed the base buffer capacity of the site soil is 0.40 g persulfate per kg of dry soil.

Sodium persulfate will be mixed with water and then with an activator (sodium hydroxide – alkaline activation) in the following ratios based on a degradation rate calculation provided by Evoniks (formerly Peroxychem), which were verified as appropriate during the ISCO pilot test:

- It is anticipated that up to approximately 1,636 pounds of sodium persulfate will be injected at each injection point. This is based on 380 lb. to treat the target constituents of concern (COCs) and 1,256 lb. to treat the non-target demand associated with the soil oxygen demand (SOD). A total of up to about 16,360 pounds of sodium persulfate will be injected into the target area.
- It is anticipated that approximately 2,470 gallons of water will be injected at each injection point to deliver the sodium persulfate. A total of up to approximately 24,700 gallons of water will be injected into the target area.
- The persulfate will be activated with a 25% alkaline solution of sodium hydroxide (NaOH). To activate the persulfate and meet the demand to neutralize the hydrogen sulfide (HSO_4) and soil buffering, this alkalinity demand is estimated to be 3,250 lb. of NaOH solution (approximately 315 gallons of solution) injected at each injection point. A total of up to about 32,500 pounds of sodium hydroxide solution will be injected into the target area.

These volumes are calculated by Evoniks, a leading provider of persulfate material with years of experience calculating target and non-target demands. The Safety Data Sheets (SDS) for the sodium persulfate and sodium hydroxide are provided in Appendix C.

4.3.3 Post-ISCO Injection Groundwater Sampling

Groundwater monitoring will be conducted to evaluate the effectiveness of the SVE remediation system and post-ISCO injection remediation. Groundwater samples will be collected from upgradient and downgradient monitoring wells as remediation progresses. Groundwater samples will be analyzed for target CVOCs, and anions. Monitoring will occur quarterly for the first two years, then semi-annually for two additional years.

As part of a groundwater monitoring plan, existing and replacement groundwater monitoring wells will be sampled for CVOCs. Replacement wells will be located proximal to the former MW-105 (new well identification will be MW-113), MW-106 (new well identification will be MW-114), MW-108 (new well identification will be MW-111, and MW-110 (new well identification will be MW-115). New monitoring wells will be installed at the location of the PRB wall (well identification will be MW-112 proximal to the former MW-109) and a new monitoring well located downgradient of MW-110 (new well identification MW-115 - new downgradient monitoring well identification will be MW-116). See Figure 3 for the locations of the monitoring wells. Additional information on the frequency and target parameters for samples will be described in the Site Management Plan.

4.4 Permeable Reactive Barrier

The proposed PRB consists of one continuous segment extending approximately 100 feet parallel with the western property boundary. It will be installed via injections at 38 points in three rows, at a depth between 37 and 45 feet below ground surface (bgs), and 2-feet into the clay layer (elevation 5.00’ to -4.00’, with a maximum depth of 46’ [elevation -4.00’] regardless of encountering the

clay layer). The continuous permeable barrier will not modify the natural groundwater flow (no funnel and gate). Appendix A contains a figure showing the PRB wall location.

4.4.1 Basis of Design

The CVOC-impacted water-bearing zone at the site is separated from the deeper aquifer by a fat clay unit. This shallow water-bearing unit consists primarily of sand and silts of alternating and intermingling sequences. The lower boundary of the unit of interest is variable and ranges from 37 to 45 feet bgs (elevation 5.00' to -4.00'). Results of Site slug testing indicate that the hydraulic conductivity of the sand unit is on the order of 0.03 to 0.04 feet per day (ft/day).

Considering the distribution of CVOC concentrations, a PRB will be installed via a series of injections of BOS 100® to construct the PRB in the shallow groundwater unit at the site. BOS 100 will achieve the remedial goal in just a few months after installation by eliminating CVOC-saturated soil mass within the footprint of the PRB and by controlling mass flux (CVOC migration). BOS 100 will also provide a long-term treatment mechanism to sustain PRB performance treatment for greater than 10 years.

BOS 100 is a specialized reagent catalyst manufactured by Remediation Products, Inc. (RPI) of Golden, Colorado, and is designed for the rapid degradation of chlorinated solvents. It is a reactant comprised of activated carbon impregnated with metallic iron. The manufacturing process results in an extremely vast metallic iron surface area that is highly active. The product is mixed with water, and the resulting slurry is then injected using high-flow and pressure pumps.

BOS 100 affects rapid reduction of contaminants in groundwater due to the fact it contains a substantial amount of activated carbon. This product uses a granular, food-grade, coal-based activated carbon, as it has the highest adsorption isotherms. Concentrating contaminants allows for increased degradation rates.

- Activated carbon has a tremendous affinity for organic compounds and rapidly adsorbs contaminants from groundwater. Therefore, it is not necessary to wait for extended periods of time to know if the desired effect will take place; groundwater concentrations of COCs will be significantly reduced within a matter of days. This is the "trap" portion of the product's activity.
- This product is not a mixture. The product has approximately 6.5% wt. metallic iron available for reaction, which is chemically distributed and fused throughout the activated carbon structure at the nanoscale level, creating a conduit for electron transfer. As such, the product possesses an extremely high reactivity toward chlorinated solvents. This reactivity and longevity (greater than 10 years) are due to this highly active and substantial available surface of metallic iron (roughly 250 m^2/g iron).
- Because this is a fusion of carbon and iron, byproducts only include low levels of dissolved iron, chloride, and a series of non-toxic gases, e.g. ethylene. Toxic daughter products (e.g. vinyl chloride) are not realized since these compounds remain bound to the carbon and are subsequently degraded. Thus, groundwater can be cleaned to targeted standards within noticeably short periods of time and is maintained at this level throughout the clean-up lifetime- remediation performance will be recognized within days to months after injection.
- Physical mixtures (not fusions like BOS 100) of activated carbon and iron will not support rapid or long-term degradation in situ. Such mixtures will sequester contaminants onto the

activated carbon, removing their availability from the iron, and subsequently preventing treatment. Once the activated carbon capacity is overwhelmed, contaminants outside of the platform will be available to iron; however, daughter product generation will commence as the chlorinated solvents jump along the beta elimination pathway. In PRB applications, this generally leads to VC or cis-DCE streaming off the downgradient side of the PRB.

- BOS 100 does not depend on any bacterial action to support its activity. The process is entirely based on chemical reactions. Unlike biotic treatment mechanisms, the BOS 100 abiotic treatment mechanism is not sensitive to local geochemistry and when oxidation-reduction potential is negative as when it is positive and a vast range of groundwater pH.
- The product is not water soluble, so no dilution or movement of the product takes place after installation. This is a critical characteristic for injected PRBs or permeable reactive treatment zones (PRTZs) but is important for all installations.

The Safety Data Sheet (SDS) for the BOS 100 is provided in Appendix C.

4.4.2 PRB Installation

BOS 100 is injected as a slurry requiring specialized injection equipment, tooling, and techniques. The product particles are kept in suspension during injection with high energy created by injection flow rates ranging from 25 to 70 gallons per minute (gpm) and exit velocities leaving the injection tip ranging from 3,000 to 12,000 feet per minute (fpm). Injections of BOS 100 are conducted through direct push technology (DPT) injection points in a top-down manner, injecting at each two-foot vertical interval (thus five injection depths per injection point) of each injection point within the treatment zone.

A direct-push drill rig unit will be utilized to advance the direct-push rods through the formation to an average design depth of 37 to 45 feet, and 2-feet into the clay layer (elevation of PRB injection is between 5.00’ and -4.00’). The injection system is capable of injecting slurries containing large particles suspended in water using high-energy circulation. The specialized injection tooling will inject the slurry in a top-down method which promotes greater certainty of distribution of slurry in the formation and minimizes daylighting and short-circuiting with viscous injectates. 2.25-inch direct push rods with a pre-threaded inner hose are used to minimize the concerns about the backpressure of sands clogging the injection tip and reduce the risk of daylighting at the borehole.

The injection equipment will be capable of up to 70 gpm and up to 1,200 pounds per square inch (psi). The mobile mixing and injection equipment trailer will be staged near the injection location. The injection system is equipped with a Safety Pressure By-Pass Valve, which is adjustable and will automatically recirculate slurry in the event of high-pressure and back-pressure situations. The injection pump flow is controlled by a variable frequency drive (VFD) and has a fixed volume per RPM. The RPMs are monitored, and precise volume is determined based on the operating RPM. Lastly, the mixing tank is calibrated to monitor the volume injected as well.

An injection grid of 38 points is tightly spaced horizontally in three rows will provide adequate subsurface coverage and contaminant contact resulting in a barrier of approximately 100 feet long and 20 feet wide. See Appendix A for the proposed injection locations. The PRB installation will use a 7.5-foot injection point spacing. Vertical distances between injection intervals are spaced in

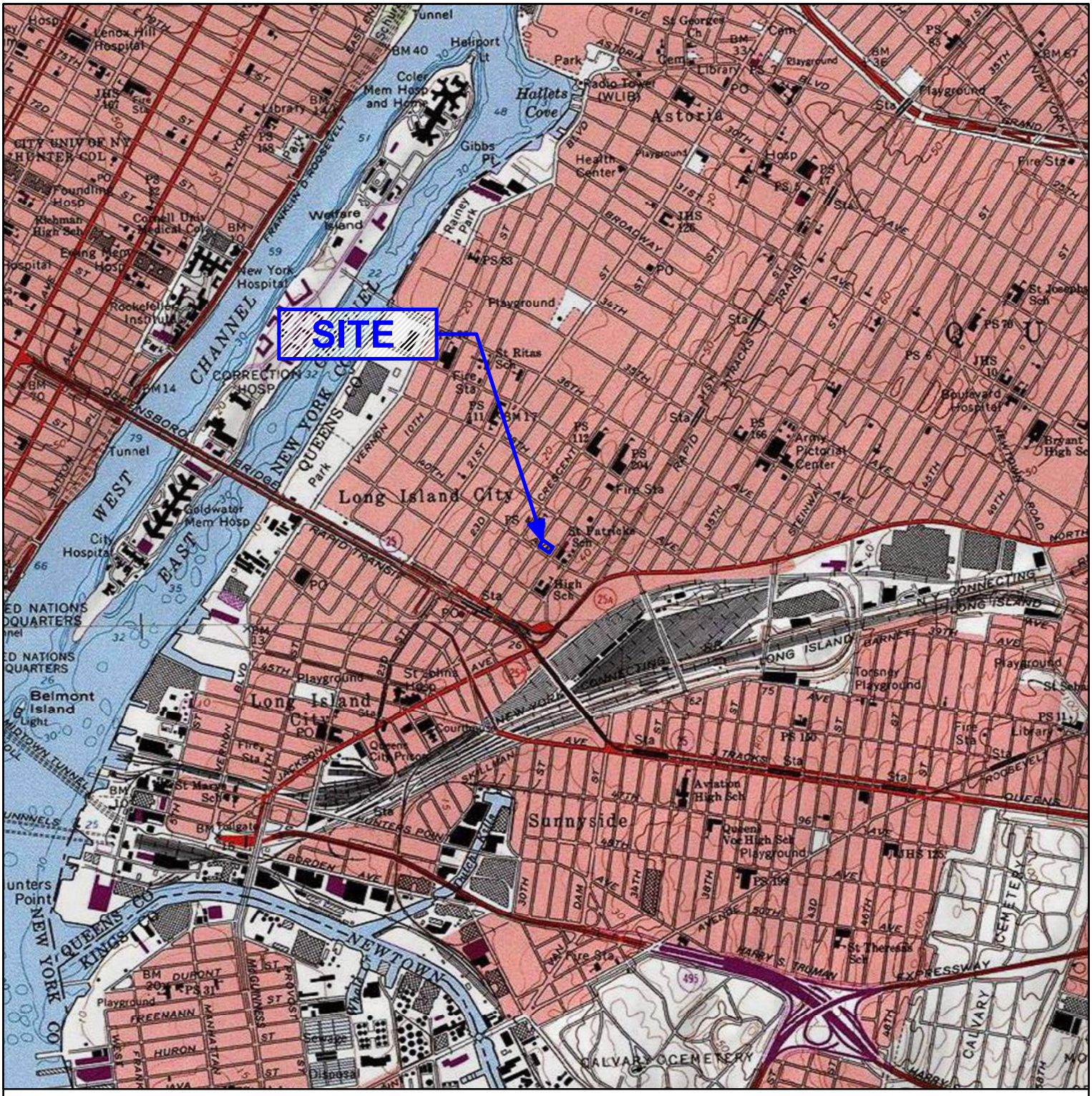
such a manner as to maintain borehole seal and prevent daylighting back up around the rod itself. A 2-foot vertical injection interval spacing per injection boring will be used to install 5,900 pounds of BOS 100 to form the PRB.

Injection points within the grid are completed at alternating vertical intervals (compared to the closest adjacent points) to provide both overlap and separation off-sets, but they are also completed in a staggered sequence of every other point in a row and skipping a row as work progresses. This process is used to minimize hydraulic loading and allow enough time to discharge accumulated subsurface pressure in an area from the previous adjacent hydraulic injection of fluids. Finally, allowing injection point back-pressure to stabilize before tooling removal and proper abandonment of completed injection points following tooling removal prevents daylighting once the "cork is removed from the bottle" and short-circuiting to adjacent injection points during subsequent borehole completion.

4.5 ISCR TREATMENT

The RAWP and Decision Document called for mixing soil with zero valent iron (ZVI) in AOC-2 during hot spot soil remediation. As the endpoint sampling demonstrated that the removal of the impacted soil was successfully completed and because of structural soil reasons, no additional soil excavation was performed in AOC-2. Thus, to meet the requirements of the RAWP and Decision Document, two additional ISCO injection points will be installed with AOC-2 in leu of the two in situ chemical reduction (ISCR) wells. The additional ISCO injection locations, labeled ISCO-109 & ISCO-110, are shown in Figure 3.

FIGURES



SOURCE: USA TOPO MAPS - COPYRIGHT © 2013 NATIONAL GEOGRAPHIC SOCIETY, I-CUBED. CENTRAL PARK (SITE - 1995)) AND BROOKLYN (1995) NEW YORK 7.5-MINUTE QUADRANGLES.

SCALE: 1 " = 2,000 '

0 1,000 2,000 4,000'

N

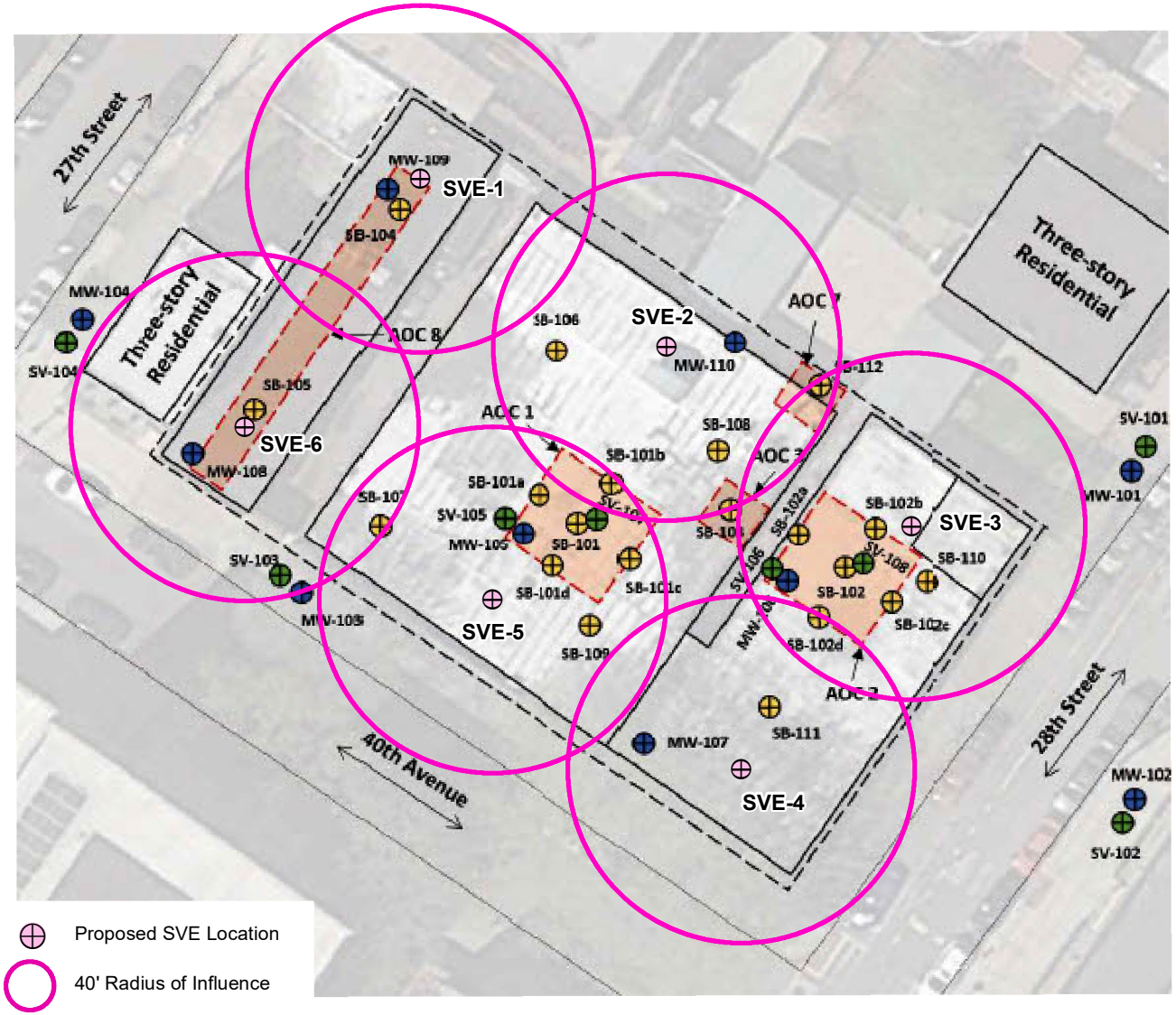
Liberty Environmental, Inc.

600 Third Avenue, Second Floor
New York, NY 10016
Phone: 800-305-6019
www.libertyenviro.com

Figure 1 - Site Location Map

27-09 40th Avenue
Long Island City, Queens, New York

PROJECT NO.: 220192	REV: 0	PREPARED BY: JRY
DATE: SEPTEMBER 6, 2022	SCALE: 1" = 2,000'	APPROVED BY: CNH



KEY

- Soil sample location
- Groundwater sample location
- Soil vapor sample location
- Area of concern
- Site boundary
- Proposed SVE Location
- 40' Radius of Influence

NOTE: THIS DRAWING INTENDED FOR ILLUSTRATIVE PURPOSES ONLY, AS PART OF A SITE CHARACTERIZATION.
NOT TO BE USED AS A BASIS FOR ENGINEERING OR DESIGN
IMAGE SOURCE: CHAZEN COMPANIES, FIGURE 14 - CONCENPTUAL SOIL VAPOR EXTRACTION SYSTEM LAYOUT. SUBMITTED WITH REMEDIAL ACTION WORK PLAN DATED JANUARY 2021.

N

SCALE: 1 " = 40 '

0 20 40 80'

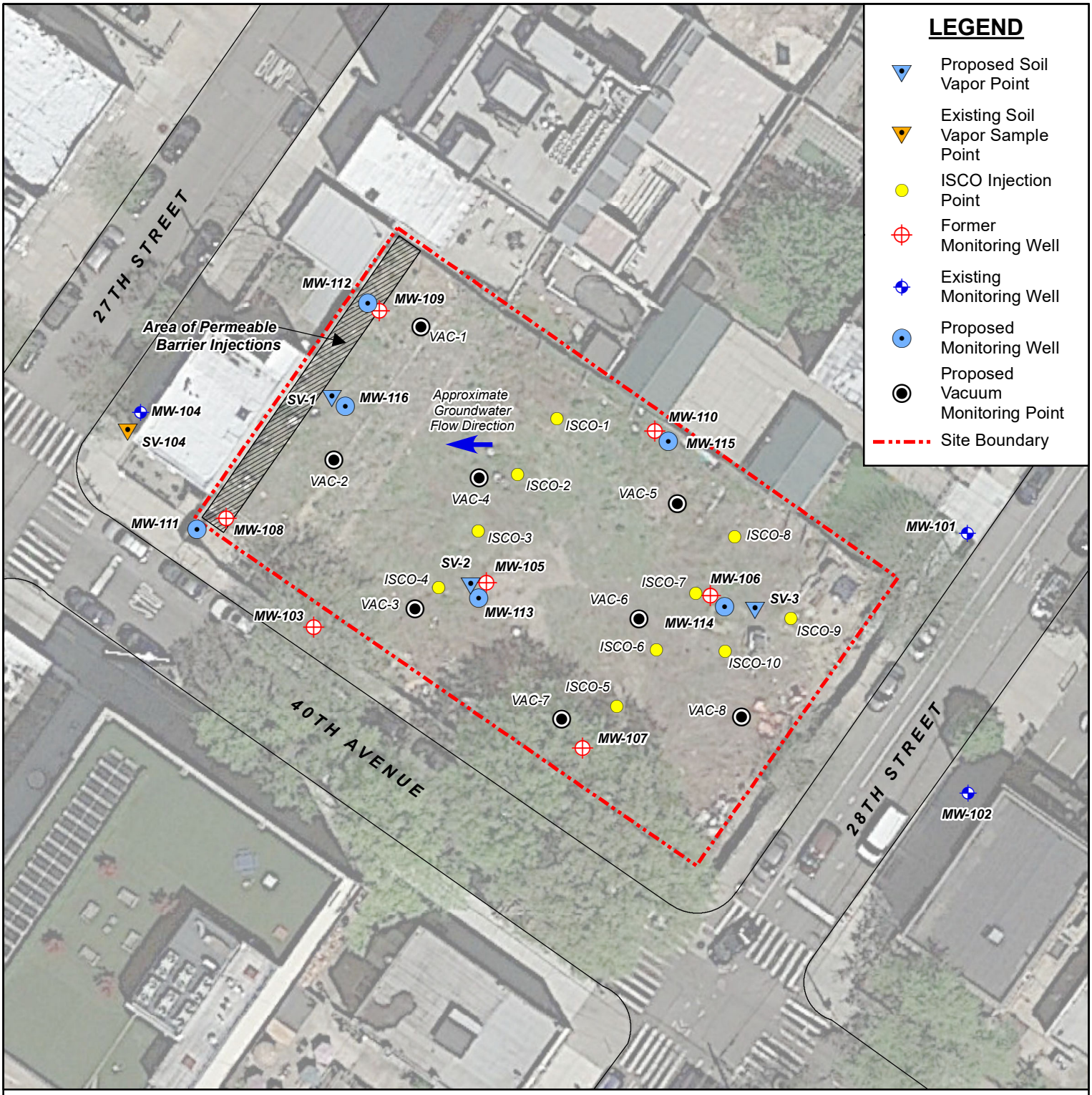
Liberty Environmental, Inc.

600 Third Avenue, Second Floor
New York, NY 10016
Phone: 212-255-0374
www.libertyenviro.com

Figure 2 - Proposed SVE Well Locations and Radius of Influence

27-09 40th Avenue
Borough of Queens, City of New York, New York

PROJECT NO.: 220192	REV: 4	PREPARED BY: JRY
DATE: FEBRUARY 22, 2023	SCALE: 1" = 40'	APPROVED BY: JPC



NOTE: THIS DRAWING INTENDED FOR ILLUSTRATIVE PURPOSES ONLY, AS PART OF A SITE CHARACTERIZATION.
NOT TO BE USED AS A BASIS FOR ENGINEERING OR DESIGN
IMAGE SOURCE: GOOGLE EARTH. PHOTO DATE: APRIL 2022.

SCALE: 1 " = 40 '
0 20 40 80'

N

Figure 3 - Remedial Actions

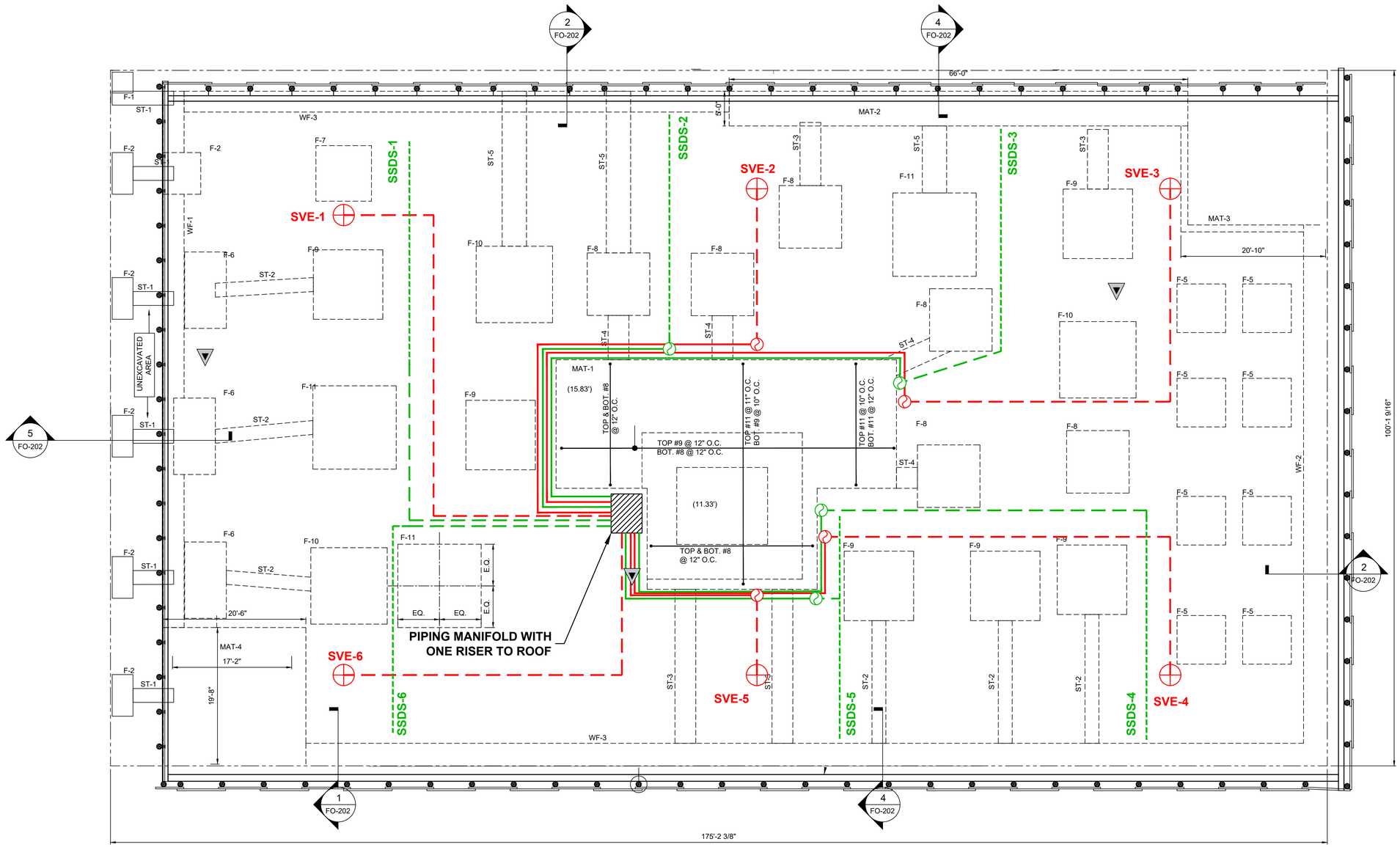
27-09 40th Avenue
Borough of Queens, City of New York, New York

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New York, NY 10016
Phone: 212-255-0374
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PROJECT NO.: 220192	REV: 1	PREPARED BY: JRY
DATE: MAY 24, 2023	SCALE: 1" = 40'	APPROVED BY: CNH

APPENDIX A

DESIGN DRAWINGS



▼ PROPOSED SOIL-VAPOR SAMPLE POINT

CPVC RISER

SOIL VAPOR EXTRACTION WELL

UNDERGROUND 3-INCH SCH. 40 PVC SVE PIPING

ABOVE GROUND 3-INCH SOLID CPVC SVE PIPING

UNDERGROUND 3-INCH SCH. 40 PVC SSDS PIPING

ABOVE GROUND 3-INCH SOLID CPVC SSDS PIPING

3-INCH PERFORATED PVC SSDS PIPING (32-FOOT LONG)

CONCRETE FOOTER FOUNDATION

40TH AVE

SIDEWALK ABOVE

STATE OF NEW YORK
JAMES PAUL GREEN
079794
LICENSED PROFESSIONAL ENGINEER

NO.	DATE	REVISION

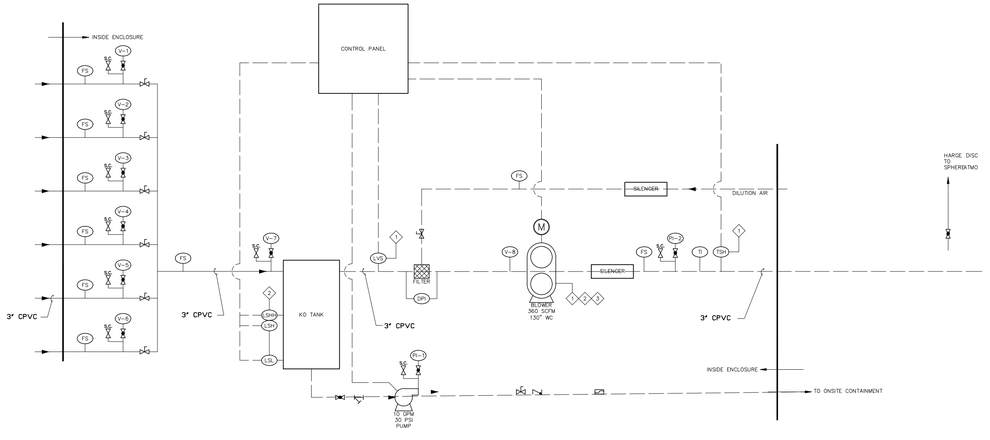
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NEW YORK, NY 10016
www.libertyenviro.com

Liberty Environmental, Inc.

SVE AND SSDS LAYOUT

27-09 40TH AVENUE
BOROUGH OF QUEENS, CITY OF NEW YORK, NEW YORK

P.I.N. No.: 220192			
Field Book: -	Software: AUTOCAD		
Calc. By:	Chk'd. By: JPC	Drawn By: JRY	
Date: 3/3/23	Scale: 1/8" = 1'	Sheet No: 1 OF 2	
Plan No.: XXX		Ref. No. -	
Filename: 40thAveSVEDesign_220192			



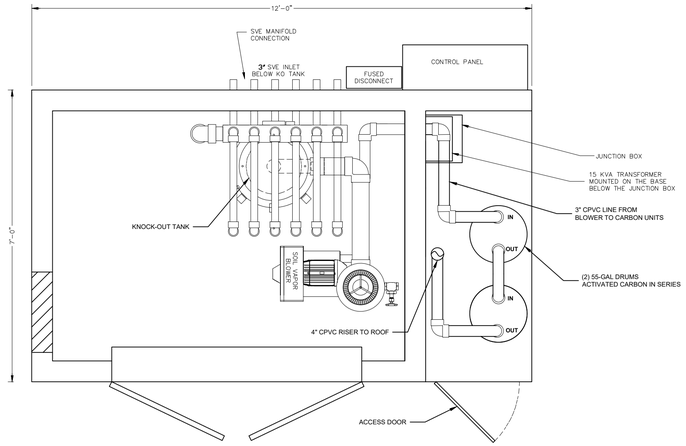
LEGEND

- RELIEF VALVE
- GATE VALVE
- SAMPLE CONNECTION/PORT
- CHECK VALVE
- BALL VALVE
- WYE STRAINER
- TOTALIZING FLOW METER
- PITOT TUBE FLOW SENSOR
- LOW VAC SWITCH
- VAPOR CONTROL SWITCH
- SOLENOID VALVE
- PI-1 PRESSURE INDICATOR 0–30 PSI
- DPI DIFFERENTIAL PRESSURE INDICATOR
- LSHH LEVEL SWITCH HIGH–HIGH LEVEL
- LSH LEVEL SWITCH HIGH LEVEL
- LSL LEVEL SWITCH LOW LEVEL
- TI TEMPERATURE INDICATOR 0–250
- PI-2 PRESSURE INDICATOR 0–30" WC
- VI-1 VACUUM INDICATOR 0–30" HG
- TT TEMPERATURE TRANSMITTER
- FT FLOW TRANSMITTER
- THREE WAY VALVE

INTERLOCK SCHEDULE

1. LOW VACUUM ALARM (30" W.C.) – SHUT DOWN BLOWER SIGNAL ALARM
2. HIGH LEVEL ALARM – SHUT DOWN BLOWER SIGNAL ALARM
3. HIGH TEMPERATURE ALARM (200 F) – SHUT DOWN BLOWER SIGNAL ALARM

SVE SYSTEM SCHEMATIC DIAGRAM

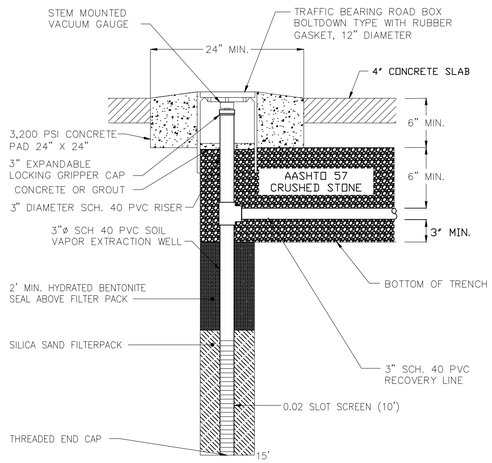


SVE SYSTEM LAYOUT

NOT TO SCALE

NOTE:

1. ACTUAL TREATMENT SYSTEM DIMENSIONS AND LAYOUT WILL BE PROVIDED PRIOR TO IMPLEMENTATION.

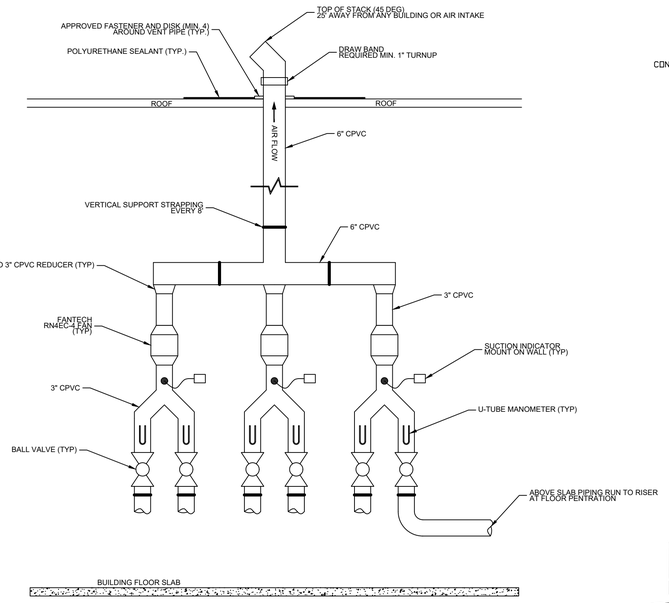


SOIL VAPOR EXTRACTION WELL DETAIL

NOT TO SCALE

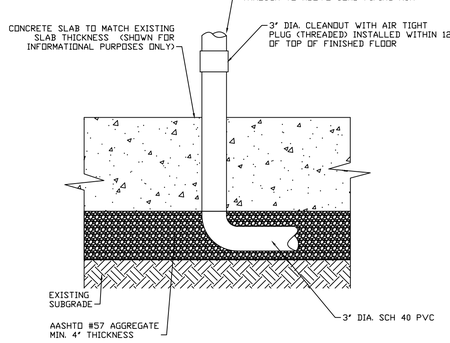
VAPOR BARRIER AND SUB-SLAB DEPRESSURIZATION SYSTEM NOTES

1. FLOOR DRAINS THAT ARE NOT CONNECTED TO SEWER SHALL BE FITTED WITH ONE-WAY FLOW VALVES.
2. SEALING OPENINGS AND PENETRATIONS SHALL BE PERFORMED WITH CAULK (COMPLIANT OF ASTM C920 CLASS 25 OR HIGHER OR EQUIVALENT) OR CLOSED CELL GASKET MATERIALS. A FOAM BACKER ROD SHALL BE INSERTED INTO THE JOINT TO SUPPORT CURING CAULK ON JOINTS OR OPENINGS GREATER THAN ½ INCH (13MM) IN WIDTH. SOIL GAS COLLECTION PLENUMS SHALL BE PROPERLY SEALED AGAINST AIR LEAKS, INCLUDING OPENINGS AROUND PLUMBING, EXHAUST VENT PIPES, MECHANICAL PIPING, STRUCTURAL SUPPORTS, GAPS TO THE INSIDE OF HOLLOW STRUCTURAL POSTS, AND EXPOSED ELECTRICAL CONDUITS.
3. SUMPS OR OTHER PIT OPENINGS IN INTERIOR FLOORS THAT REQUIRE ACCESS FOR MAINTENANCE AND CONNECT TO SOIL AIR SHALL HAVE A PLASTIC, RIGID LID THAT IS DURABLE AND ROT-RESISTANT (SUCH AS POLYCARBONATE). THE LID SHALL BE SEALED WITH GASKET MATERIAL OR SILICONE CAULK AND MECHANICALLY FASTENED. PIPE AND WIRING PENETRATIONS THROUGH THE LID SHALL BE SEALED. CAULK THAT IS COMPLIANT OF THE ASTM C620 CLASS 25 OR HIGHER SHALL BE USED TO SEAL GAPS BETWEEN THE INTERSECTION OF THE SUMP BASIN AND THE FLOOR OR MEMBRANE.
4. FLOOR DRAIN LABEL OR MARKING TITLES SHALL READ: "COMPONENT OF A SOIL GAS VENT SYSTEM. RETURN TO A CLOSED CONDITION IF OPENED, ACCESSED OR DAMAGED." LABELS OR MARKINGS SHALL BE PRESENT ON SUMP LIDS, BLOCK-OUTS, ACCESS OPENINGS, AND OTHER CLOSED SURFACES THAT COULD BECOME COMPONENTS OF A MITIGATION SYSTEM AND WOULD REQUIRE ACCESSIBILITY
5. ALL EXHAUST VENT PIPING SHALL SLOPE DOWNWARD TOWARDS THE SOIL AT NO LESS THAN 1/8 INCHES PER FOOT. SLOPING SECTIONS OF HORIZONTAL PIPE THAT ARE GREATER THAN 15 FEET (5 M) SHALL BE AVOIDED.
6. ALL PIPING ABOVE GROUND SHALL BE SUPPORTED BY THE STRUCTURE OF A BUILDING VIA HANGERS OR STRAPPING THAT ARE SPECIFIC TO PROVIDING PIPING SUPPORT. PLASTIC PIPING SUPPORTS SHALL BE INSTALLED AT INTERVALS THAT ARE NO GREATER THAN 4 FEET (1.2 M), WHILE VERTICAL PIPING SUPPORTS SHALL NOT EXCEED 10 FEET (3M).
7. PRIMER CONFORMING TO ASTM F656 SHALL BE USED TO PREPARE SOLVENT-WELDED JOINT SURFACES FOR PVC PLASTIC PIPES AND FITTINGS. SOLVENT CEMENT CONFORMING TO ASTM D 2564 SHALL BE USED ON SOLVENT-WELDED PVC PLASTIC PIPE JOINTS.
8. ELECTRICAL CONDUCTORS FROM A DEDICATED BREAKER SHALL BE LOCATED WITHIN 6 FEET (1.8 M) OF DEPRESSURIZATION FAN LOCATIONS IN ORDER TO SUPPLY A BOXED OUTLET. BOXED OUTLETS SHALL BE LABELED "SOIL GAS FAN".
9. EXHAUST VENT PIPING LABELS SHALL CLEARLY STATE THAT THE ITEM IS A COMPONENT OF A SOIL GAS VENT SYSTEM.
10. EXHAUST VENT PIPING LABELS SHALL BE AT INTERVALS NO GREATER THAN 20 FEET (6 M) ALONG THE DEVELOPED LENGTH OF EXHAUST PIPING.
11. THE POINT OF EXHAUST SHALL BE NO LESS THAN 18 INCHES (46 CM) ABOVE A FLAT ROOF.
12. THE POINT OF EXHAUST SHALL NOT BE LESS THAN 4 FEET (120 CM) ABOVE OPERABLE OPENINGS IN STRUCTURES.
13. THE POINT OF EXHAUST SHALL NOT BE LESS THAN 30 FEET (3M) HORIZONTALLY TO THE SIDE OF OPERABLE OPENINGS IN STRUCTURES.
14. LETTERING ON SYSTEM LABEL TITLES SHALL BE NO LESS THAN 1/4 INCH (6.35 MM). ADDITIONAL INFORMATION ON THE LABELS SHALL HAVE LETTERING THAT IS NO LESS THAN 1/8 INCH (3.18 MM).
15. THE LABEL TITLES ON FAN MONITORS SHALL READ "SOIL GAS VENT SYSTEM".
16. A MEANS OF ELECTRICAL DISCONNECT SHALL BE PROVIDED FOR DEPRESSURIZATION FANS THAT DO NOT HAVE A CORD AND PLUG CONNECTED.
17. PRESSURE ACTIVATED ELECTRICAL DEPRESSURIZATION SYSTEM MONITORS SHALL RESET AUTOMATICALLY WHEN POWER IS RESTORED AFTER POWER SUPPLY FAILURE AND INCLUDE UNSWITCHED ELECTRICAL CIRCUITS.



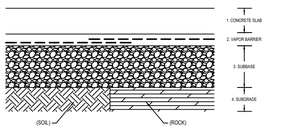
SSDS SYSTEM MANIFOLD AND RISER

NOT TO SCALE



SSDS PIPING RISER PENATRATION THROUGH BUILDING SLAB

NOT TO SCALE

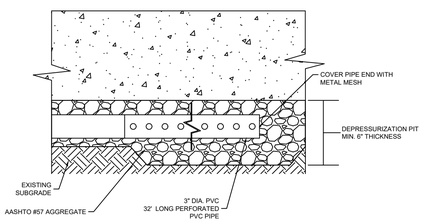


NOTES:

1. SLAB THICKNESS = 4" UNLESS OTHERWISE NOTED ON PLANS.
2. VAPOR BARRIER MINIMUM 15 MIL THICK POLYETHYLENE.
3. SLAB BASE: 4" LAYER OVER SOIL, 0" MIN. OVER ROCK SUBGRADE.
4. SUBGRADE: COMPACTED FILL, BACKFILL OR UNDISTURBED SOIL OR LEVELED ROCK SURFACE.
5. THE VAPOR BARRIER SHALL BE INSTALLED BELOW ALL SLABS, FOOTERS AND PITS, AND SHALL EXTEND UP EXTERIOR FOUNDATION WALL TO THE GROUND SURFACE.
6. THE VAPOR BARRIER SHALL HAVE A 12" MINIMUM OVERLAP AND SEALED WITH MANUFACTURER'S RECOMMENDED TAPE.

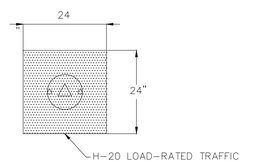
TYPICAL VAPOR BARRIER UNDER SLAB DETAIL

NOT TO SCALE



DEPRESSURIZATION PIT DETAIL

NOT TO SCALE



SOIL VAPOR EXTRACTION WELLHEAD MONUMENT DETAIL

NOT TO SCALE

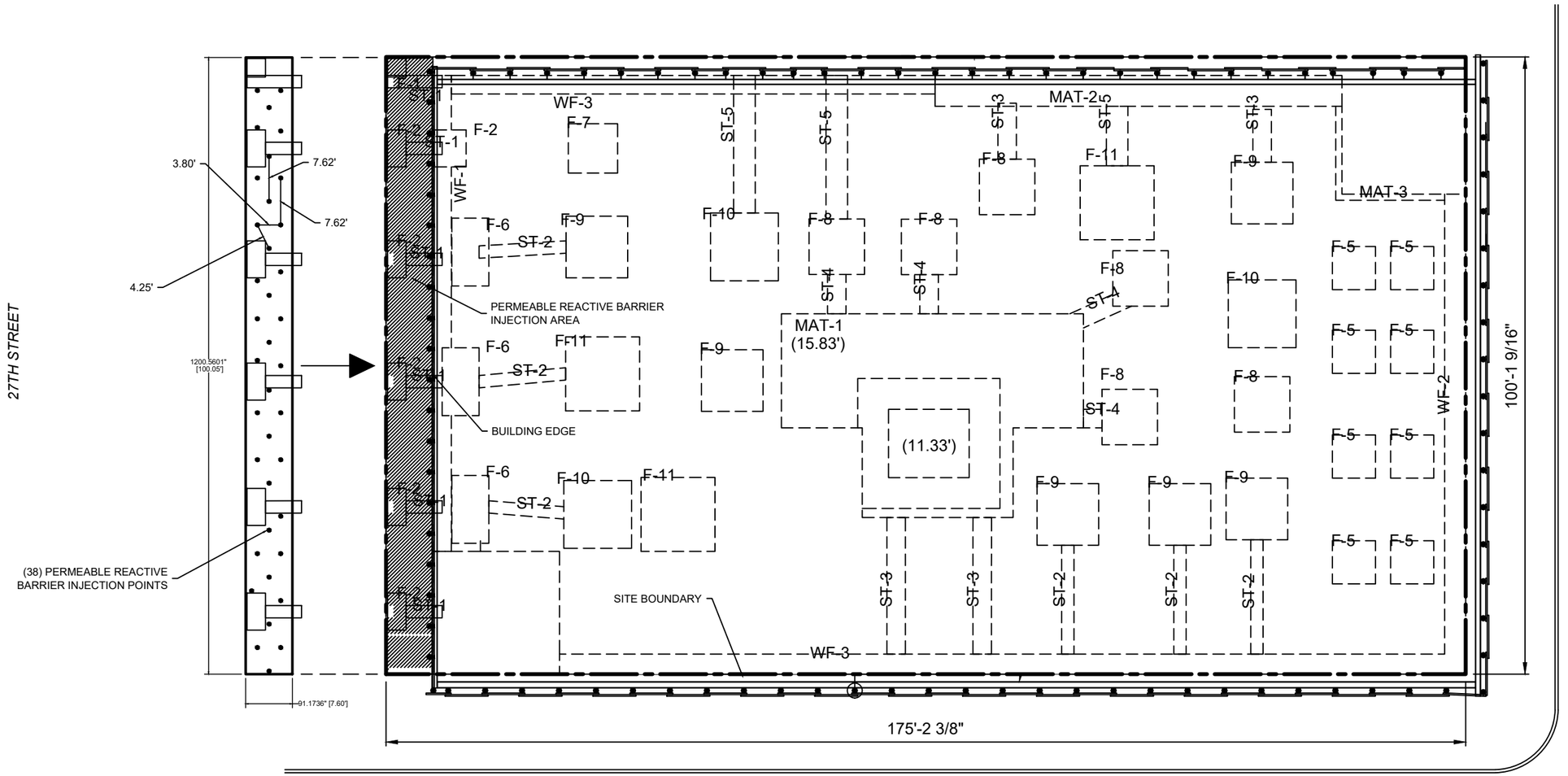
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NO.	DATE	REVISION

SVE AND SSDS DETAIL SHEET

27-09 40TH AVENUE
BOROUGH OF QUEENS, CITY OF NEW YORK, NEW YORK

P.I.N. No.: 220192		
Field Book: –		Software: AUTOCAD
Calc. By:	Chk'd. By: JPC	Drawn By: JRY
Date: 3/3/23	Scale: NS	Sheet No.: 2 OF 2
Plan No.: XXX		Ref. No.: –
Filename: 40thAveSVEDesign_220192		



NOTE: DRAWING INTENDED FOR ILLUSTRATIVE PURPOSED ONLY, AS PART OF A SITE CHARACTERIZATION. NOT TO BE USED AS A BASIS FOR ENGINEERING OR DESIGN.
NOTE: BUILDING FOOTPRINT AND PROPERTY BOUNDARY GATHERED FROM HCN ARCHITECTS.

0 20′ 40′

Liberty Environmental, Inc.
600 Third Avenue, Second Floor
New York, NY 10016
Phone: 212-255-0374
www.libertyenviro.com

Permeable Reactive Barrier Injection Locations

27-09 40th Avenue
Borough of Queens, City of New York, New York

PROJECT NO.: 220192	REV: 0	PREPARED BY: JRY
DATE: MARCH 8, 2023	SCALE: 1" = 20'	APPROVED BY: JPC

APPENDIX B

MANUFACTURER'S LITERATURE

APPENDIX B.1

SSDS – Fantech Literature

Rn 4EC-3 Inline Radon Fan

w/ integrated control system, 3.5" Pipe, 4.75" max SP

Item #: 99922

Variant: 120V 1~ 60Hz

Rn4EC-3 Radon Fan is the most powerful product on the market for active radon mitigation applications where high suction and high flow are required. It is an excellent solution for high radon levels, poor sub-slab communication, multiple suction points and/or large sub slab footprint. Rn4EC-3 replaces models FR200, FR225, and FR250 for radon mitigation.



- Designed specifically for Active Soil Depressurization (ASD) mitigation applications
- High Suction, High Flow
- Dial your suction in with a built-in speed control
- Two soft anti-vibration couplers included
- Set up for a 3" PVC pipe
- For residential and commercial applications
- Air-tight housing - zero leakage
- UV resistant plastic housing
- UL Listed for safety and outdoor use
- HVI certified fan performance
- 5-year factory warranty

Rn4EC-3 can create 4.75" of suction while moving 20 cfm, or moving from 125 to 200 cfm when operating at only 0.5" of suction.

Inherently efficient and operationally stable at full and reduced speeds, Rn 4EC-3 fan arms the radon professional with installation methods not previously practical. Integrated control system allows for "dialing in" the fan speed necessary to achieve either the required sub-slab depressurization or required system air flow rate.

Manufactured from two molded plastic pieces seamlessly joined together. It is inherently and permanently airtight ensuring no Radon gas leakage. A large watertight electrical wiring enclosure ensures electrical installation quick and simple. Fan motor is thermal overload protected with automatic reset and can be installed both indoors or outdoors. Two anti-vibration couplers are included with the fan.

Technical parameters

Nominal data		
Voltage (nominal)	120	V
Frequency	60	Hz
Phases	1~	
Input power	169	W
Input current	2.1	A
Impeller speed	4,084	rpm
Air flow	max 555	cfm

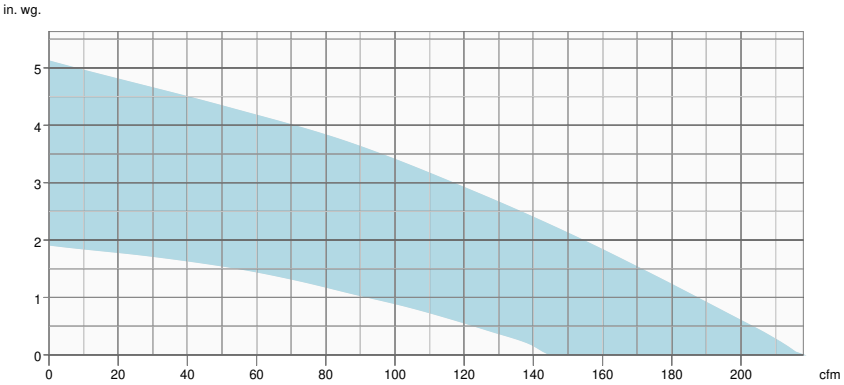
Protection/Classification		
Enclosure class, motor	IP54	
Insulation class	B	
Certificate	HVI, cULus	

Dimensions and weights		
Duct dimension; Circular, inlet	5	in.
Weight	7.8	lb

Optional		
Motor type	EC	

Performance

Performance curve



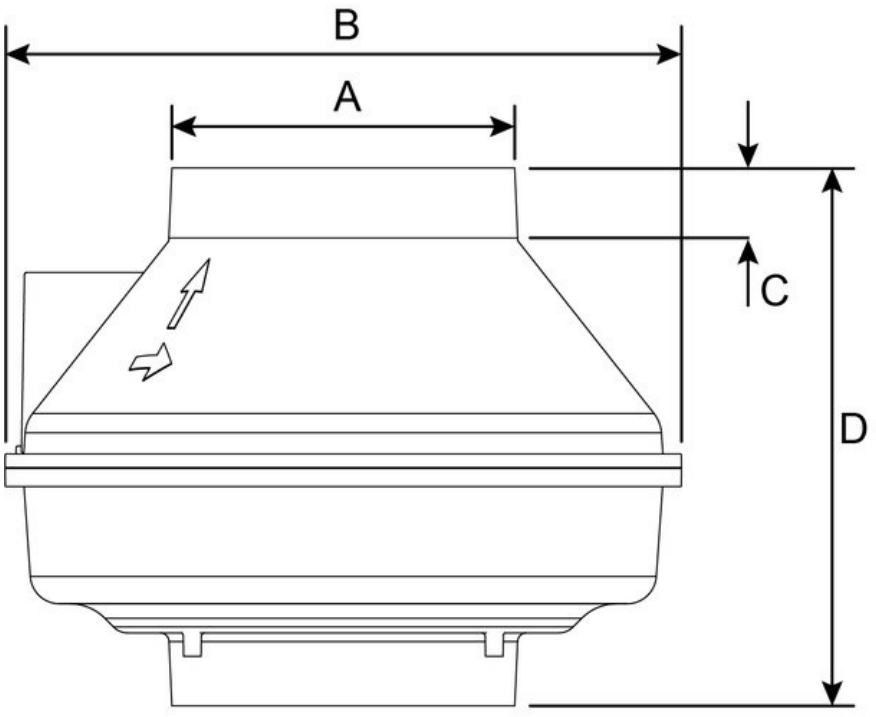
Hydraulic data	
Required air flow	-
Required static pressure	-
Working air flow	-
Working static pressure	-
Air density	0.075 lb/ft³
Power	-
Fan control - RPM	-
Current	-
Airflow efficiency	-
Control voltage	-
Supply voltage	-

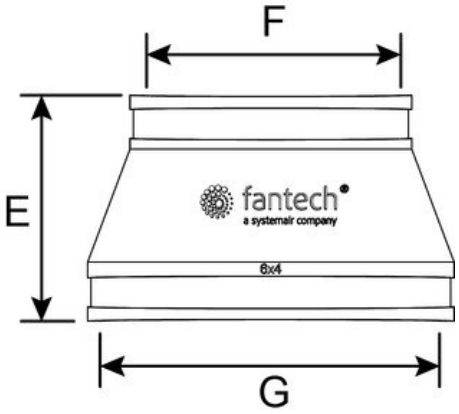
Performances

			HVI Certified Rating(s)					
Model	Speed	Ctrl Voltage	High Static/Low Flow			Low Static/High Flow		
			Inch WC	CFM	W	Inch WC	CFM	W
Rn4EC-3	100%	10V	4.5	36	146	0.2	210	173
	80%	8V	3.19	29	88	0.2	180	126
	60%	6V	1.75	20	40	0.2	130	57

NOTE: Performance is based on 3 inch diameter ducting.

Dimensions

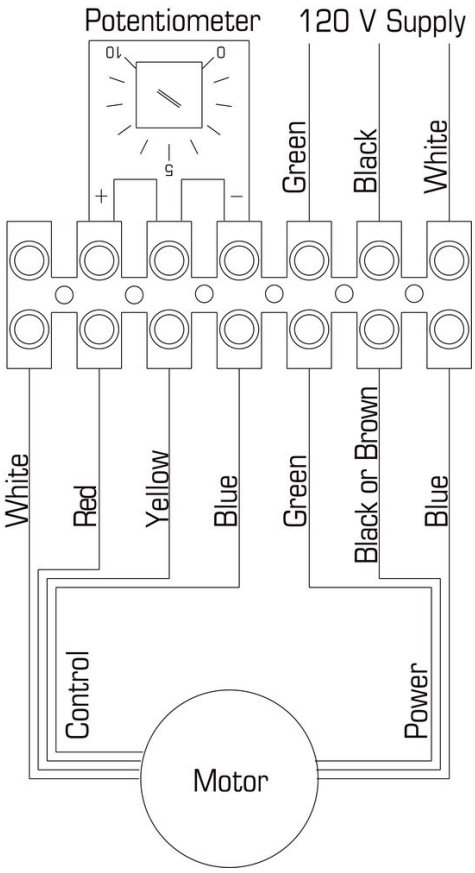




Model	A	B	C	D	E	F	G
Rn2EC	4 15/32 (114)	10 (254)	1 1/4 (32)	9 1/4 (235)	-	-	-
Rn4EC-3	5 7/8 (149)	11 1/2 (292)	1 1/4 (32)	9 1/4 (235)	4 (102)	3 1/2 (89)	6 (152)
Rn4EC-4	5 7/8 (149)	11 1/2 (292)	1 1/4 (32)	9 1/4 (235)	4 (102)	4 1/2 (114)	6 (152)

Dimensions in inches (mm).

Wiring


Potentiometer
120 V Supply
10
0
5
+
–
Green
Black
White
White
Red
Yellow
Blue
Green
Black or Brown
Blue
Control
Power
Motor

Accessories

- Radon Alarm (498290)

Documents

- 142001 Rn2EC-Rn4-EC OIPM EN FR.PDF







RadonAway® Easy Read Manometer - RED

SKU: 50018

Be the first to review this product

The RadonAway® Easy Read U-tube Manometer, installed in nearly a half million homes to date, lets the homeowner know at a glance whether the radon system is operating. Quantity Price Discounts apply at 50+. Pricing will update when added to Shopping Cart.

NOTICE

Log In to Purchase

RadonAway is a B2B business only. You must be an approved RadonAway customer to purchase products through this website. If you are an existing RadonAway customer and need a website login, click here. If you are a professional and would like to become a RadonAway customer, click here.

Add to Wishlist

Add to Compare Share

Product Categories

- Radon Fans +
- HRVs / ERVs +
- Radon System Components +
- Mitigation Tools & Diagnostic Aids +
- Sealing Products +
- Crawlspace Moisture and Radon Control +
- Sump Pumps & Accessories +
- Pipe Accessories +
- Radon System Accessories –
  - Electrical Cords, Switches & Connectors
  - Outdoor Fan Covers & Accessories
  - Pressure Gauges and Manometers
  - Dynameter / Manometer
  - Radon System Labels
  - System Alarms
  - Radon Gas Detector
  - Fan Speed Control
  - HS Series Accessories
  - Make-Up Air
  - Corentium Digital Radon Monitor

RadonAway® Easy Read U-Tube Manometer

The RadonAway® Easy Read U-tube Manometer, installed in nearly a half million homes to date, lets the homeowner know at a glance whether the radon system is operating.* Our u-tube comes packaged as part of a System Monitoring and Homeowner Information packet containing instructions, system and component labels, and a homeowner information brochure that complies with current standards.

* This device does NOT measure radon levels.

Features

Reads 0-4.5" WC
Non-toxic fluid
Adjustable zero
Molded scale curved to fit system pipe

Packet Includes

Easy Read u-tube manometer (with tubing and 2 self-tap screws)
Installation instructions
System and component labels
System information brochure
Clear plastic bag with twist tie for hanging information on system

NOTE: RadonAway® Easy Read U-tube Manometer is not suitable for use with system pressures above 4.5" WC.

Related





RP145c Radon Fan
Add to Wishlist

Radon in Water Removal Systems +
Radon Testing +
Spruce Inline Ventilation +
Canada Fulfillment +
Air Purifiers
New Products New
Best Sellers

1-2 day shipping in most of US
Read more...

Five year manufacturer's warranty on RadonAway fans

Free technical support for our customers

Contact Us









RadonAway® Easy Read Manometer - BLUE
Add to Wishlist

RadonAway® Manome Replacement Oil
Add to Wishlist



Zoom



Checkpoint IIA Mitigation System Alarm

SKU: 28001-2

Be the first to review this product

Audible alarm; green and red LED lights; factory preset to activate at .25" WC vacuum pressure; low voltage

NOTICE

Log In to Purchase

RadonAway is a B2B business only. You must be an approved RadonAway customer to purchase products through this website. If you are an existing RadonAway customer and need a website login, click here. If you are a professional and would like to become a RadonAway customer, click here.

Add to Wishlist

Add to Compare Share

Details | Additional Info | Reviews | Conditions of Sale

Additional Checkpoint Alarm Information:

Product Categories

- Radon Fans +
- HRVs / ERVs +
- Radon System Components +
- Mitigation Tools & Diagnostic Aids +
- Sealing Products +
- Crawlspace Moisture and Radon Control +
- Sump Pumps & Accessories +
- Pipe Accessories +
- Radon System Accessories –
  - Electrical Cords, Switches & Connectors
  - Outdoor Fan Covers & Accessories
  - Pressure Gauges and Manometers
  - Dynameter / Manometer
  - Radon System Labels
  - System Alarms
  - Radon Gas Detector
  - Fan Speed Control
  - HS Series Accessories
  - Make-Up Air
  - Corentium Digital Radon Monitor

Downloadable Checkpoint Alarm Installation Instructions (PDF format)

Related



RP145c Radon Fan
Add to Wishlist



Pressure Switch
Add to Wishlist



Pro Series 3 Radon Ga Detector
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Radon in Water Removal Systems +
Radon Testing +
Spruce Inline Ventilation +
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Read more...

Five year manufacturer's warranty on RadonAway fans

Free technical support for our customers

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APPENDIX B.2

SSDS – Vapor Pin® Literature

Standard Operating Procedure Use of the VAPOR PIN® Sampling Device Drilling Guide and Secure Cover

Updated January 28, 2021

Scope:

This standard operating procedure (SOP) describes the methodology to use the VAPOR PIN® sampling device Drilling Guide and Secure Cover to install and secure a VAPOR PIN® sampling device in a flush mount configuration.

Purpose:

The purpose of this SOP is to detail the methodology for installing a VAPOR PIN® sampling device and Secure Cover in a flush mount configuration. The flush mount configuration reduces the risk of damage to the VAPOR PIN® sampling device by foot and vehicular traffic, keeps dust and debris from falling into the flush mount hole, and reduces the opportunity for tampering. This SOP is an optional process performed in conjunction with the SOP entitled "Installation and Extraction of the VAPOR PIN®". However, portions of this SOP should be performed prior to installing the VAPOR PIN®.

Equipment Needed:

- VAPOR PIN® sampling device Secure Cover (Figure 1);
- VAPOR PIN® sampling device Drilling Guide (Figure 2);
- Hammer drill;
- 1½-inch diameter hammer bit (Hilti™ TE-YX 1½" x 23" #00293032 or equivalent);
- 5/8-inch diameter hammer bit (Hilti™ TE-YX 5/8" x 22" #00226514 or equivalent);
- assembled VAPOR PIN® sampling device;
- #14 spanner wrench;
- Wet/Dry vacuum with HEPA filter (optional); and
- personal protective equipment (PPE).

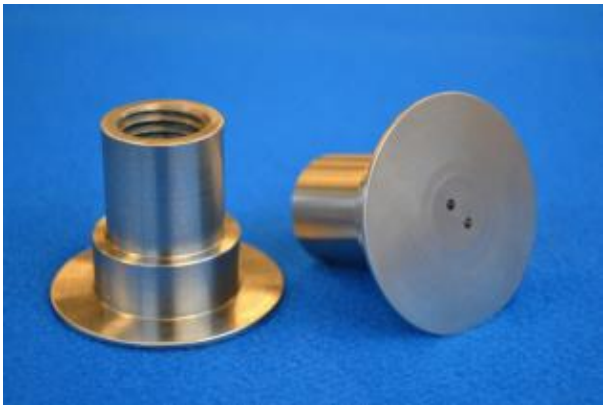


Figure 1. VAPOR PIN® Sampling Device Secure Cover

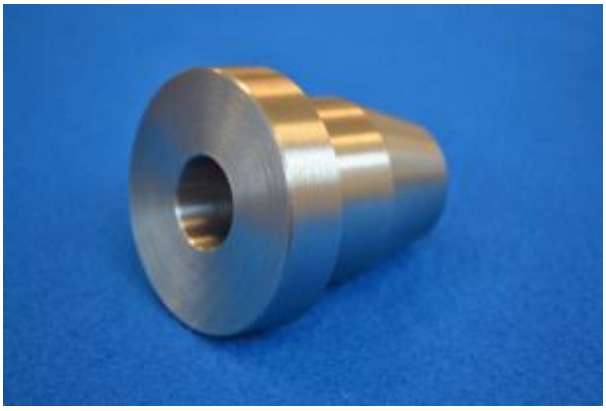


Figure 2. VAPOR PIN® Sampling Device Drilling Guide

Installation Procedure:

1) Check for buried obstacles (pipes, electrical lines, etc.) prior to proceeding.

VAPOR PIN® sampling device protected under US Patent # 8,220,347 B2 and other US and International Patents

2) Set up wet/dry vacuum to collect drill cuttings.

3) While wearing PPE, drill a 1½-inch diameter hole into the concrete slab to a depth of approximately 1 3/4 inches. Pre-marking the desired depth on the drill bit with tape will assist in this process.

4) Remove cuttings from the hole and place the Drilling Guide in the hole with the conical end down (Figure 3). The hole is sufficiently deep if the flange of the Drilling Guide lies flush with the surface of the slab. Deepen the hole as necessary, but avoid drilling more than 2 inches into the slab, as the threads on the Secure Cover may not engage properly with the threads on the VAPOR PIN® sampling device.



Figure 3. Testing Depth with the Drilling Guide

5) When the 1½-inch diameter hole is drilled to the proper depth, replace the drill bit with a 5/8-inch diameter bit, insert the bit through the Drilling Guide (Figure 4), and drill through the slab. The Drilling Guide will help to center the hole for the VAPOR PIN® sampling device, and keep the hole perpendicular to the slab.

6) Remove the bit and drilling guide, clean the hole, and install the VAPOR PIN® sampling device in accordance with the SOP "Installation and Extraction of the VAPOR PIN® sampling device.



Figure 4. Using the Drilling Guide

7) Screw the Secure Cover onto the VAPOR PIN® sampling device and tighten using a #14 spanner wrench by rotating it clockwise (Figure 5). Rotate the cover counter clockwise to remove it for subsequent access.



Figure 5. Tightening the Secured Cover

Limitations:

On slabs less than 3 inches thick, it may be difficult to obtain a good seal in a flush mount configuration with the VAPOR PIN® sampling device.

Vapor Pin® sampling device protected under US Patent # 8,220,347 B2

APPENDIX C

SAFETY DATA SHEETS

APPENDIX C.1

SDS – Evoniks Sodium Persulfate and Sodium Hydroxide

SAFETY DATA SHEET

Classified in accordance 29 CFR 1910.1200

1. Identification

Product identifier: KLOZUR® CAUSTIC

Other means of identification
None.

Recommended restrictions

Recommended use: Remediation of contaminated soil and groundwater.
Restrictions on use: Not known.

Manufacturer/Importer/Distributor Information

Company Name	:	Evonik Corporation 2 Turner Place Piscataway, NJ 08854 USA
Telephone	:	+1 973 929 8000
Fax	:	+1 973 929 8040
E-mail	:	product-regulatory-services@evonik.com

Emergency telephone number:

24-Hour Health Emergency	:	+1 800 424 9300 (CHEMTREC - US & CANADA) 800 681 9531 (CHEMTREC MEXICO) +1 703 527 3887 (CHEMTREC WORLD)

2. Hazard(s) identification

Hazard Classification

Physical Hazards

Corrosive to metal	Category 1

Health Hazards

Skin Corrosion/Irritation	Category 1A
Serious Eye Damage/Eye Irritation	Category 1

Label Elements

Hazard Symbol:



Signal Word: Danger

Hazard Statement:

May be corrosive to metals.
Causes severe skin burns and eye damage.

Precautionary Statements

Prevention: Keep only in original packaging. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

Response: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. Wash contaminated clothing before reuse. Specific treatment (see supplemental first aid instructions on this label). IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Absorb spillage to prevent material damage.

Storage: Store locked up. Store in corrosive resistant stainless steel container with a resistant inner liner.

Disposal: Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.

Hazard(s) not otherwise classified (HNOC): None.

3. Composition/information on ingredients

Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
sodium hydroxide		1310-73-2	25%

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

The exact concentration has been withheld as a trade secret.

4. First-aid measures

Description of necessary first-aid measures

General information: Pay attention to self-protection. Remove victims from hazardous area. Immediately remove soiled or soaked clothing and remove it to a safe distance. Keep victim warm, in a stabilized position and covered. Do not leave the victim unattended. Place patients who are unconscious but breathing in the stabilized lateral position.

Inhalation:	Potential for exposure by inhalation if aerosols or mists are generated. After inhalation move subject to fresh air. With labored breathing: Provide with oxygen. Consult a doctor immediately. If the casualty is not breathing: Perform mouth-to-mouth resuscitation, notify emergency physician immediately.
Skin Contact:	Wash off affected area immediately with plenty of water for at least 15 minutes. Get medical attention if any discomfort continues.
Eye contact:	With eye held open, thoroughly rinse immediately with plenty of water for at least 10 minutes. Notify emergency physician immediately (key words: burns in eye).
Ingestion:	Rinse mouth. Immediately give large quantities of water to drink. Notify the emergency physician immediately.
Personal Protection for First-aid Responders:	No data available.

Most important symptoms and effects, both acute and delayed

Symptoms:	Corrosive
Hazards:	Strongly irritating to corrosive.

Indication of immediate medical attention and special treatment needed

Treatment:	The initial focus is only on the local action, characterized by quickly progressing deep tissue damage. Coughing is a symptom of a respiratory tract irritation after inhalation of aerosols or mists from caustic liquids. In the eye, caustic liquids cause, depending on the intensity of exposure, severe irritation, destruction, and ablation of the epithelium of the conjunctiva and cornea, corneal clouding, edema and ulcerations. Danger! Possible loss of eyesight! Superficial irritations and damage up to ulcerations and scarring develop on the skin.

5. Fire-fighting measures

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media:	The product is non-combustible. In case of fire in the surroundings: Water spray, foam, CO2, dry powder.
Unsuitable extinguishing media:	High volume water jet.
Special hazards arising from the substance or mixture:	In case of fire-fighting with water or foam be aware of dangers of corrosion and of slipping.

Special protective equipment and precautions for fire-fighters

Special fire-fighting procedures:	Cool containers/tanks with water spray.
Special protective equipment for fire-fighters:	In case of fire use self-contained breathing apparatus if necessary.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:	For personal protection see section 8.
Accidental release measures:	No data available.
Methods and material for containment and cleaning up:	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). After cleaning, flush away traces with water. Fill into marked, sealable containers. To be disposed of in compliance with existing regulations.
Environmental Precautions:	Prevent product from entering drains. Do not allow to reach the sewage system, the ground or natural water bodies.

7. Handling and storage

Handling

Technical measures (e.g. Local and general ventilation):	Provide natural or explosion-proof ventilation adequate to ensure concentrations are kept below exposure limits.Provide readily accessible eye wash stations and safety showers.
Safe handling advice:	Avoid residues of the product on the containers. For personal protection see section 8.Handle in accordance with good industrial hygiene and safety practice.
Contact avoidance measures:	No data available.

Storage

Safe storage conditions:	In order to ensure due transportation, make certain that stacks are of the correct height, containers are securely fastened so as not to fall off, and labelled according to the regulations.Store in the original receptable, keeping this tightly sealed, under cool and dry conditions. Minimum storage temperature: 15 °C. Suitable materials are: Stainless steel. rubber-lined steel polyolefins Inadequate materials are: aluminium zinc enamel
Safe packaging materials:	No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
sodium hydroxide	Ceiling	2 mg/m3	US. ACGIH Threshold Limit Values, as amended (03 2016)
	Ceil_Time	2 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)
	PEL	2 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (03 2016)

Please refer to the latest edition of the appropriate source text and consult an industrial hygienist or similar professional, or local agencies, for further information.

Biological Limit Values
No biological exposure limits noted for the ingredient(s).

Appropriate Engineering Controls Provide natural or explosion-proof ventilation adequate to ensure concentrations are kept below exposure limits. Provide readily accessible eye wash stations and safety showers.

Individual protection measures, such as personal protective equipment

Eye/face protection: close-fitting protective goggles (e.g. closed goggles)

Skin Protection

Hand Protection: Material: Kächele-Cama Latex GmbH (KCL), Germany
Guideline: DIN EN 374
Additional Information: Applies to handling for longer periods or of large amountsMaterial: Kächele-Cama Latex GmbH (KCL), Germany
Guideline: DIN EN 374
Additional Information: Applies to handling for brief periods or of small amounts

Skin and Body Protection: Anti-static suit. acid-resistant protective clothing Alkali-resistant protective clothing

Respiratory Protection: in case vapors or aerosols appear use respiratory equipment with suitable filter or wear a self contained respiratory apparatus Suitable filter: A, code colour brown Note time limit for wearing respiratory protective equipment.

Hygiene measures: Avoid contact with skin and eyes. Wash contact areas after handling. Do not eat, drink, smoke, or sniff while at work. Wash your hands and/or face before breaks and before termination of work. Take off clothing and shoes contaminated with product. Clean before reuse.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Physical state:	liquid
Form:	liquid
Color:	colorless
Odor:	Odorless
Odor Threshold:	No data available.
Freezing point:	3 °F/-16 °C
Boiling Point:	241 °F/116 °C
Flammability:	No data available.

Upper/lower limit on flammability or explosive limits

Explosive limit - upper:	Not applicable
Explosive limit - lower:	Not applicable
Flash Point:	Not applicable
Self Ignition Temperature:	Not expected during handling from practical experience.
Decomposition Temperature:	Not expected during handling from practical experience.
pH:	14 (20 °C)
Viscosity	
Dynamic viscosity:	6.4 mPa.s (77 °F/25 °C)
Kinematic viscosity:	5.20 mm2/s (86 °F/30 °C)
Flow Time:	No data available.
Solubility(ies)	
Solubility in Water:	> 10 g/l Soluble
Solubility (other):	Soluble
Partition coefficient (n-octanol/water):	No data available.
Vapor pressure:	10 - 18 hPa (86 °F/30 °C)
Relative density:	No data available.
Density:	1.273 g/cm3 (68 °F/20 °C)
Bulk density:	No data available.
Relative vapor density:	No data available.

Other information

Explosive properties:	Not expected during handling from practical experience.
Oxidizing properties:	Not expected during handling from practical experience.
Minimum ignition temperature:	Not applicable
Formation of Flammable Gases:	Not expected during handling from practical experience.
Peroxides:	Not expected during handling from practical experience.
Metal Corrosion:	Corrosive to metal
Evaporation Rate:	No data available.
Molecular weight:	40 g/mol

10. Stability and reactivity

Reactivity:	No data available.
Chemical Stability:	No data available.
Possibility of hazardous reactions:	Evolution of hydrogen with: various metals e.g.: aluminium, magnesium, zinc (Formation of detonating gas with atmospheric oxygen). Exothermic reaction with: acids
Conditions to avoid:	No further information available
Incompatible Materials:	aluminium Magnesium zinc acids
Hazardous Decomposition Products:	No hazardous decomposition products are known.

11. Toxicological information

Information on toxicological effects

Information on likely routes of exposure

Inhalation:	No data available.
Skin Contact:	Relevant route of exposure. Information on effects are given below.
Eye contact:	Relevant route of exposure. Information on effects are given below.
Ingestion:	If handled correctly, not a relevant route of exposure. Information on effects are given below.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation:	No data available.
Skin Contact:	Relevant route of exposure. Information on effects are given below.
Eye contact:	Relevant route of exposure. Information on effects are given below.
Ingestion:	If handled correctly, not a relevant route of exposure. Information on effects are given below.

Acute toxicity (list all possible routes of exposure)

Oral
Product: Not classified for acute toxicity based on available data.

Dermal
Product: Not classified for acute toxicity based on available data.

Inhalation
Product: No data available.
Not classified for acute toxicity based on available data.

Repeated dose toxicity
Product: No data available.

Skin Corrosion/Irritation
Product: Corrosive. (Rabbit): Corrosive.; Literature

Serious Eye Damage/Eye Irritation
Product: No data available.
Components:
sodium hydroxide — Risk of serious damage to eyes. OECD 405 Rabbit:

Respiratory or Skin Sensitization
Product: No data available.
Components:
sodium hydroxide — Sensitization test (man): Not a skin sensitizer.

Carcinogenicity
Product: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:
No carcinogens present or none present in regulated quantities

ACGIH: US.ACGIH Threshold Limit Values:
No carcinogens present or none present in regulated quantities

US. National Toxicology Program (NTP) Report on Carcinogens:
No carcinogens present or none present in regulated quantities

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:
No carcinogens present or none present in regulated quantities

Germ Cell Mutagenicity

In vitro

Product:	No data available.
Components:	
sodium hydroxide	Ames test (OECD 471): negative gene mutation test (analogous OECD method): positive

In vivo

Product:	No data available.
Components:	
sodium hydroxide	Micronucleus test (analogous OECD method) Intraperitoneal (Mouse, Female, Male): negative

Reproductive toxicity
Product: No data available.

Specific Target Organ Toxicity - Single Exposure
Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure
Product: No data available.

Aspiration Hazard

Product:	No data available.
Components:	
sodium hydroxide	Not applicable

Information on health hazards

Other hazards
Product: No data available.

12. Ecological information

Ecotoxicity:
Acute hazards to the aquatic environment:

Fish
Product: No data available.

Aquatic Invertebrates

Product:	No data available.
Components:	
sodium hydroxide	EC 50 (Ceriodaphnia, 48 h): 40.4 mg/l Literature

Toxicity to Aquatic Plants
Product: No data available.

Toxicity to microorganisms
Product: No data available.

Chronic hazards to the aquatic environment:

Fish
Product: No data available.

Aquatic Invertebrates
Product: No data available.

Toxicity to Aquatic Plants
Product: No data available.

Toxicity to microorganisms
Product: No data available.

Persistence and Degradability

Biodegradation
Product: No data available.

BOD/COD Ratio
Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)
Product: No data available.

Partition Coefficient n-octanol / water (log Kow)
Product: Log Kow: No data available.

Mobility in soil:

Product No data available.

Results of PBT and vPvB assessment:

Product Not a PBT, vPvB substance as per the criteria of the REACH Regulation.

Other adverse effects:

Other hazards
Product: No further information available

Additional Information: no ecotoxicological studies with the product available.

13. Disposal considerations

Disposal methods: Discharge, treatment, or disposal may be subject to national, state, or local laws.

Contaminated Packaging: Dispose of container and unused contents in accordance with federal, state, and local requirements.

14. Transport information

Domestic regulation

49 CFR
UN/ID/NA number : UN 1824
Proper shipping name : Sodium hydroxide solution

Class	:	8
Packing group	:	II
Labels	:	8
ERG Code	:	154
Marine pollutant	:	no
Remarks	:	FOR USA ONLY: When shipping in, by or via USA note of the Reportable Quantity-Regulation!

International Regulations

IATA-DGR

UN/ID No.	:	UN 1824
Proper shipping name	:	Sodium hydroxide solution
Class	:	8
Packing group	:	II
Labels	:	8
Packing instruction (cargo aircraft)	:	855
Packing instruction (passenger aircraft)	:	851
Remarks	:	FOR USA ONLY: When shipping in, by or via USA note of the Reportable Quantity-Regulation!

IMDG-Code

UN number or ID number	:	UN 1824
Proper shipping name	:	SODIUM HYDROXIDE SOLUTION
Class	:	8
Packing group	:	II
Labels	:	8
EmS Code	:	F-A, S-B
Marine pollutant	:	no
Remarks	:	Keep separate from acids., FOR USA ONLY: When shipping in, by or via USA note of the Reportable Quantity-Regulation!

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
None present or none present in regulated quantities.

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)
None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended
None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity
SODIUM HYDROXIDE

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Corrosive to metal, Skin Corrosion or Irritation, Serious eye damage or eye irritation

US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

None present or none present in regulated quantities.

US. EPCRA (SARA Title III Section 313 Toxic Chemical Release Inventory (TRI) Reporting

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):
None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

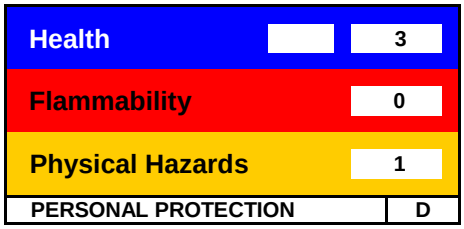
Chemical Identity
SODIUM HYDROXIDE

US State Regulations

US. California Proposition 65
No ingredient requiring a warning under CA Prop 65.

16.Other information, including date of preparation or last revision

HMIS Hazard ID



D - Face Shield, Gloves & Apron

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; *Chronic health effect

Issue Date:	09/08/2022
Version #:	1.0
Further Information:	No data available.
Revision Information	Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Disclaimer:

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SAFETY DATA SHEET

Classified in accordance with 29 CFR 1910.1200

1. Identification

Product identifier: KLOZUR® SP

Other means of identification
None.

Recommended restrictions

Recommended use: Remediation of contaminated soil and groundwater.
Restrictions on use: Not known.

Manufacturer/Importer/Distributor Information

Company Name	:	Evonik Corporation 2 Turner Place Piscataway, NJ 08854 USA
Telephone	:	+1 973 929 8000
Fax	:	+1 973 929 8040
E-mail	:	product-regulatory-services@evonik.com

Emergency telephone number:

24-Hour Health Emergency	:	+1 800 424 9300 (CHEMTREC - US & CANADA) 800 681 9531 (CHEMTREC MEXICO) +1 703 527 3887 (CHEMTREC WORLD)

2. Hazard(s) identification

Hazard Classification

Physical Hazards

Oxidizing solids	Category 3

Health Hazards

Acute toxicity (Oral)	Category 4
Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2A
Respiratory sensitizer	Category 1
Skin sensitizer	Category 1
Specific Target Organ Toxicity - Single Exposure	Category 3 (Respiratory tract irritation.)

Label Elements

Hazard Symbol:



Signal Word: Danger

Hazard Statement:

May intensify fire; oxidizer.
Harmful if swallowed.
Causes skin irritation.
Causes serious eye irritation.
May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May cause an allergic skin reaction.
May cause respiratory irritation.

Precautionary Statements

Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from clothing, strong acids, bases, heavy metal salts and other reducing substances, and combustible materials. Take any precaution to avoid mixing with combustibles. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. [In case of inadequate ventilation] wear respiratory protection.

Response: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. IF ON SKIN: Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention. Take off contaminated clothing. Specific treatment (see supplemental first aid instructions on this label). IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage: Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal: Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.

Hazard(s) not otherwise classified (HNOC): None.

3. Composition/information on ingredients

Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
Disodium peroxodisulphate		7775-27-1	>99%
Sodium Sulfate		7757-82-6	<1%

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

The exact concentration has been withheld as a trade secret.

4. First-aid measures

Description of necessary first-aid measures

General information: Remove from exposure, lie down. Show this safety data sheet to the doctor in attendance.

Inhalation: Remove from contaminated area. Apply artificial respiration if not breathing. Get medical attention immediately.

Skin Contact: Wash skin thoroughly with soap and water.

Eye contact: If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor. Get medical attention.

Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth thoroughly with water. Seek medical attention.

Personal Protection for First-aid Responders: No data available.

Most important symptoms and effects, both acute and delayed

Symptoms: No data available.

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: No data available.

5. Fire-fighting measures

General Fire Hazards: Release of oxygen may support combustion. Release of oxygen may support combustion.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Dry powder. Dry sand. Water.

Unsuitable extinguishing media: Carbon dioxide High pressure inert gas, e.g. carbon dioxide jet.

Special hazards arising from the substance or mixture: No data available.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: No data available.

Special protective equipment for fire-fighters: Self-contained breathing apparatus.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Avoid contact with eyes, skin, and clothing. Avoid breathing dust. Use personal protective equipment.

Accidental release measures: Avoid spreading dust or contaminated materials. Prevent runoff from entering drains, sewers, or streams.

Methods and material for containment and cleaning up: Pick up with vacuum or absorbent solid, store in closed container for disposal. Avoid dust formation.

Environmental Precautions: No data available.

7. Handling and storage

Handling

Technical measures (e.g. Local and general ventilation): Use only in well-ventilated areas. Minimize dust generation and accumulation.

Safe handling advice: Wear appropriate personal protective equipment. Avoid breathing dust. Avoid contact with eyes, skin, and clothing. Provide adequate ventilation if fumes or vapors are generated. Handle under inert gas atmosphere in dry equipment.

Contact avoidance measures: No data available.

Storage

Safe storage conditions: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flame. Do not store near combustible materials. Avoid contamination. Keep away from food and drink. Avoid dust formation.

Safe packaging materials: No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
Disodium peroxodisulphate - as persulfate	TWA	0.1 mg/m3	US. ACGIH Threshold Limit Values, as amended (03 2016)

Please refer to the latest edition of the appropriate source text and consult an industrial hygienist or similar professional, or local agencies, for further information.

Biological Limit Values
No biological exposure limits noted for the ingredient(s).

Appropriate Engineering Controls Use only in well-ventilated areas. Minimize dust generation and accumulation.

Individual protection measures, such as personal protective equipment

Eye/face protection: Safety goggles

Skin Protection
Hand Protection: Material: Rubber (natural, latex).Material: Neoprene.Material: Polyvinyl chloride (PVC).

Skin and Body Protection: Long sleeved clothing

Respiratory Protection: Respirator must be worn if exposed to dust. Wear suitable respiratory protection.

Hygiene measures: Wash promptly if skin becomes contaminated. Provide eyewash station and safety shower.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance	
Physical state:	solid
Form:	Crystalline solid
Color:	White
Odor:	Odorless
Odor Threshold:	No data available.
Melting Point:	356 °F/180 °C
Boiling Point:	No data available.
Flammability:	No data available.
Upper/lower limit on flammability or explosive limits	
Explosive limit - upper:	No data available.
Explosive limit - lower:	No data available.
Flash Point:	No data available.
Autoignition Temperature:	No data available.
Decomposition Temperature:	No data available.
pH:	6 (1 g/l,)
Viscosity	
Dynamic viscosity:	No data available.
Kinematic viscosity:	No data available.
Flow Time:	No data available.
Solubility(ies)	
Solubility in Water:	580 g/l (77 °F/25 °C)
Solubility (other):	No data available.
Partition coefficient (n-	No data available.

octanol/water):	
Vapor pressure:	No data available.
Relative density:	No data available.
Density:	2.59 g/cm3
Bulk density:	No data available.
Vapor density (air=1):	No data available.
Particle characteristics	
Particle Size:	< 420 mm
Particle Size Distribution:	No data available.
Specific surface area:	No data available.
Surface charge/Zeta potential:	No data available.
Shape:	No data available.
Crystallinity:	No data available.
Surface treatment:	No data available.

Other information

Oxidizing properties:	The substance or mixture is classified as oxidizing with the category 3.

10. Stability and reactivity

Reactivity:	No data available.
Chemical Stability:	Stable under usual application conditions.
Possibility of hazardous reactions:	Breaks down and releases toxic and spontaneously combustible gases when wet
Conditions to avoid:	Heat. Moisture.
Incompatible Materials:	Bases. Halogens and halogenated compounds. Oxidizing agents. Strong reducing agents. Combustible material
Hazardous Decomposition Products:	No data available.

11. Toxicological information

Information on toxicological effects

Information on likely routes of exposure

Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Ingestion:	No data available.

Acute toxicity (list all possible routes of exposure)

Oral

Product:	ATEmix: 929.29 mg/kg

Dermal

Product: Not classified for acute toxicity based on available data.

Inhalation
Product: Not classified for acute toxicity based on available data.

Repeated dose toxicity
Product: No data available.
Components:
Disodium peroxodisulphate: NOAEL (Rat(Female, Male), Oral, 90 day): 91 mg/kg LOAEL (Rat(Female, Male), Oral, 90 day): 200 mg/kg

Skin Corrosion/Irritation
Product: No data available.
Components:
Disodium peroxodisulphate: OECD 404 (Rabbit): Irritating.
Sodium Sulfate: OECD 404 (Rabbit): Not irritating

Serious Eye Damage/Eye Irritation
Product: No data available.
Components:
Disodium peroxodisulphate: Irritating.
Sodium Sulfate: Not irritating OECD 405 Rabbit:

Respiratory or Skin Sensitization
Product: No data available.
Components:
Disodium peroxodisulphate: Skin sensitizer, OECD 406 (Guinea Pig): May cause sensitization by skin contact.
May cause sensitization by inhalation.
Sodium Sulfate: Maximization Test, OECD 406 (Guinea Pig): Not a skin sensitizer.

Carcinogenicity
Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:
No carcinogens present or none present in regulated quantities

ACGIH: US.ACGIH Threshold Limit Values:
No carcinogens present or none present in regulated quantities

US. National Toxicology Program (NTP) Report on Carcinogens:
No carcinogens present or none present in regulated quantities

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:
No carcinogens present or none present in regulated quantities

Germ Cell Mutagenicity

In vitro
Product: No data available.
Components:
Disodium peroxodisulphate: gene mutation test (OECD 471): negative
Sodium Sulfate: Ames test (OECD 471): negative
gene mutation test (OECD 476): negative
Chromosomal aberration (OECD 473): negative

In vivo

Product:	No data available.
Components:	
Disodium peroxodisulphate	Micronucleus test (OECD 474) Intraperitoneal (Mouse, Female, Male): negative
Sodium Sulfate	Chromosomal aberration Intraperitoneal (Mouse, Female, Male): negative

Reproductive toxicity

Product:	No data available.

Specific Target Organ Toxicity - Single Exposure

Product:	No data available.
Components:	
Disodium peroxodisulphate	Category 3 with respiratory tract irritation.

Specific Target Organ Toxicity - Repeated Exposure

Product:	No data available.

Aspiration Hazard

Product:	No data available.
Components:	
Sodium Sulfate	Not applicable

Information on health hazards

Other hazards

Product:	No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product:	No data available.
Components:	
Disodium peroxodisulphate	LC 50 (Scophthalmus maximus, 96 h): 107.6 mg/l
Sodium Sulfate	LC 50 (Pimephales promelas, 96 h): 7,960 mg/l

Aquatic Invertebrates

Product:	No data available.
Components:	
Disodium peroxodisulphate	EC 50 (Daphnia magna, 48 h): 120 mg/l (analogy)
Sodium Sulfate	EC 50 (Daphnia magna, 48 h): 1,776 mg/l

Toxicity to Aquatic Plants

Product:	No data available.
Components:	
Disodium peroxodisulphate	EC 50 (Phaeodactylum tricornutum, 72 h): 320 mg/l (OECD 201) (analogy)
Sodium Sulfate	EC 50 (Nitscheria linearis, 120 h): 1,900 mg/l (US-EPA-method)

Toxicity to microorganisms

Product:	No data available.

Chronic hazards to the aquatic environment:

Fish
Product: No data available.

Aquatic Invertebrates
Product: No data available.
Components:
Sodium Sulfate — Lowest Observed Effect Concentration (Ceriodaphnia dubia, 7 d): 1,329 mg/l
EC 50 (Ceriodaphnia dubia, 7 d): 1,698 mg/l

Toxicity to Aquatic Plants
Product: No data available.

Toxicity to microorganisms
Product: No data available.

Persistence and Degradability

Biodegradation
Product: No data available.

BOD/COD Ratio
Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)
Product: No data available.

Partition Coefficient n-octanol / water (log Kow)
Product: No data available.
Components:
Sodium Sulfate — Log Kow: 3.0

Mobility in soil:

Product No data available.

Results of PBT and vPvB assessment:

Product No data available.

Other adverse effects:

Other hazards
Product: No data available.

13. Disposal considerations

Disposal methods: Waste must be disposed of in accordance with federal, state, provincial and local regulations.

Contaminated Packaging: No data available.

14. Transport information

Domestic regulation

49 CFR
UN/ID/NA number : UN 1505

Proper shipping name	:	Sodium persulfate
Class	:	5.1
Packing group	:	III
Labels	:	5.1
ERG Code	:	140
Marine pollutant	:	no

International Regulations

IATA-DGR

UN/ID No.	:	UN 1505
Proper shipping name	:	Sodium persulphate
Class	:	5.1
Packing group	:	III
Labels	:	5.1
Packing instruction (cargo aircraft)	:	563
Packing instruction (passenger aircraft)	:	559

IMDG-Code

UN number or ID number	:	UN 1505
Proper shipping name	:	SODIUM PERSULPHATE
Class	:	5.1
Packing group	:	III
Labels	:	5.1
EmS Code	:	F-A, S-Q
Marine pollutant	:	no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
None present or none present in regulated quantities.

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)
None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended
None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):
None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Oxidizer (liquid, solid or gas), Acute toxicity (any route of exposure), Skin Corrosion or Irritation, Serious eye damage or eye irritation, Respiratory or Skin Sensitization, Specific target organ toxicity (single or repeated exposure)

US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

None present or none present in regulated quantities.

US. EPCRA (SARA Title III Section 313 Toxic Chemical Release Inventory (TRI) Reporting

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):
None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)
None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65
No ingredient requiring a warning under CA Prop 65.

Inventory Status:

Canada DSL Inventory List:	On or in compliance with the inventory	
US TSCA Inventory:	On or in compliance with the inventory	Commercial Status: Active

16.Other information, including date of preparation or last revision

Issue Date: 09/06/2022

Version #: 1.1

Further Information: No data available.

Revision Information Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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KLOZUR® SP

EVONIK
Leading Beyond Chemistry

19-May-2023

Customer:	**Liberty Environmental**	**Prepared by:**	
Contact:	**Jim Cinelli & Craig Herr**	**Derek Macaulay**	
Site Location:	**Queens, New York**	**1-267-908-0668**	
Proposal Number:	**24529**	**Derek.Macaulay@evonik.com**	

Klozur® SP Demand Calculations and Cost Estimate

Item	Packaging Type	Quantity (lbs)	Unit Rate ($USD / lb)	Cost in $USD (FOB Origin)
Klozur® SP	55.1 lb bags	15,428		
	55.1 lb bags (partial pallet)	937		
	Total	**16,364.7**		
Klozur® Activator(s)				
25% NaOH	Totes	32,500		

	Number of Deliveries	Estimated Cost Per Delivery[4]	
Shipping	N/A	N/A	Not Included
Taxes[3]			Not Included
		Total:	

1) Number of packages needed is rounded up to nearest whole unit.

2) Price valid for 30 days from date at top of document. Terms: net 30 days. Prices are FOB Origin.

3) Any applicable taxes not included. Please provide a copy of your tax exempt certificate or resale tax number when placing your order. In accordance with the law, applicable state and local taxes will be applied at the time of invoicing if Evonik has not been presented with your fully executed tax exemption documentation.

4) If shipping not included, estimated freight rates available upon request. Freight rates provided are estimates only. Standard delivery time can vary from 1-3 weeks from time of order, depending upon volume. Expedited transport can be arranged at extra cost.

5) Return Policy: Within 90 days of sale and following written approval by Evonik, products in their unopened containers, which by analysis meet the original specifications and are in the same condition as they were shipped, will be accepted for return at invoiced price, less a 25% handling charge and return freight paid by buyer. Products that are made to order or custom blended are non-returnable. Returned products that are not received back by Evonik in the same condition as they were shipped or that have been stored outside, may be subject to a higher restocking fees or no refund at all.

6) All sales are per Evonik's Terms and Conditions.

7) All disclaimers within the standard proposal/demand calculator attachments apply to any and all estimates.

PROPOSAL ATTACHMENTS

PRODUCT OVERVIEW

Klozur® SP is an environmental grade sodium persulfate which has been delivered safely and cost effectively to treat a wide variety of common contaminants of concern with an unmatched combination of power and control. With proper activation, Klozur SP can generate both oxidative and reductive pathways delivering the power to destroy the most recalcitrant of contaminants.

For more information on activated Klozur® SP, please contact your Evonik technical representative or www.klozur.com.

SITE INFORMATION

	Value	Unit	Note
Target Area Width (perpendicular to GW flow direction)	0	ft	customer supplied
Target Area Length (Parallel to GW flow direction)	0	ft	customer supplied
Area of Treatment	3,140	ft2	customer supplied
Top of Treatment Zone	35	ft bgs	customer supplied
Base of Treatment Zone	45	ft bgs	customer supplied
Treatment Zone Thickness	10	ft	customer supplied
Treatment Volume	31,400	ft3	calculated value
Porosity	30	%	default value
Ground Water Volume	70,457	USG	calculated value
Soil Density	100	lbs/ft3	default value
Soil Mass	3,140,000	lb	calculated value
Fraction Soil Mass Contacted*	100	%	default value
Base Buffering Capacity (Alkaline Activation only)	3	g 25 percent NaOH / kg soil	estimated value, it is recommend that this be analytically determined
Soil Oxidant Demand	2	g Klozur / kg soil	estimated value, it is recommend that this be analytically determined

* Fraction soil mass contacted may be less for sites with contact limitations such as fractured bedrock or those with low permeable materials.

Disclaimer:

The estimated dosage and recommended application methodology described in this document are based on the site information provided to Evonik, but are not meant to constitute a guaranty of performance or a predictor of the speed at which a given site is remediated. Klozur® persulfate and activator demand calculations do not take into account the kinetics, speed of the reaction, or ability to establish contact between the reagents and contamination in the subsurface. These calculations represent the minimum anticipated amount needed to treat the contaminants of concern (COCs). As a result, these calculations should be used as a general approximation for purposes of an initial economic assessment. Evonik recommends that oxidant demand and treatability testing be performed to verify the quantities of oxidant needed.

CONTAMINANTS OF CONCERN* (COCs)

Concentrations:

The following are estimates of the contaminant concentration in soil and groundwater within the target area. The total COC mass was calculated including estimated COC mass in groundwater, soil and NAPL, if present, within the targeted area.

Contaminant	GW (mg/L)	Soil (mg/kg)	NAPL (lbs)	Total COC Mass** (lb)
PCE	0.3	30.0	0.0	94.4

Remedial Goals and Target Mass Reductions:

The target demand is determined by also accounting for remedial goals for each contaminant and represents the estimated mass reductions targeted for each contaminant.

Contaminant	GW (mg/L)	Soil (mg/kg)	NAPL (lbs)	Total COC Mass Targeted*** (lbs)
PCE	0	0	0	94.4

*Unless provided, sorbed concentrations were roughly estimated based on expected groundwater concentrations, foc and Koc values. For a more refined estimate, it is recommended that actual values be verified via direct sampling of the targeted treatment interval.

** Includes estimated contaminant mass in soil, groundwater, and NAPL (if provided) at the site.

*** Includes estimated contaminant mass in soil, groundwater, and NAPL (if provided) at the site with the remedial goals subtracted from the total mass onsite.

KLOZUR® PERSULFATE DEMAND

The estimated mass of Klozur® SP accounts for target demand with the COCs, non-target demand associated with the soils (SOD) and a safety factor applied to each. The safety factor is intended to account for potential variability in the COC and SOD estimates and any other uncertainties associated with the application or site.

The demand from COCs was estimated using: **Degradation Ratio** The degradation ratio should be determined/verified in a bench or field test

	Klozur SP Demand	Safety Factor	Klozur SP Demand with Factor	
Demand from COCs	1,888	2.0	3,775	lb
Demand from SOD	6,280	2.0	12,560	lb

Total Klozur® SP Demand: **16,335** **lb** **To be applied in** **1** **application**

KLOZUR® SP PACKAGING OPTIONS AND PRICING

Klozur® SP can be delivered to your site in a variety of packages including in bags, or two sizes of super sacks for your handling convenience. Pricing below is exclusive of shipping and any applicable taxes.

Estimate for : **Total Project Demand**

Packaging Type	# of packages / pallet	lb Klozur® SP / pallet	# of packages needed
55.1 lb bags	40	2,204	280
55.1 lb bags (partial pallet)		937	17

Packaging Type	Unit Rate ($USD / lb)	Quantity (lbs)	Cost in $USD (FOB Origin)
55.1 lb bags		15,428	
55.1 lb bags (partial pallet)		937	_____

KLOZUR® ACTIVATION CHEMISTRIES

Klozur® activation chemistries are used to convert Klozur® SP into the highly reactive radicals. Choosing the right activator chemistry for your contaminants of concern is important in obtaining a successful site remediation. The choice of activator will be dependent upon the target contaminants, site lithology and hydrogeology, and other site conditions. While activator demand quantities for all methods are given, not all activation methods are recommended for your given contaminant or site conditions. Please consult with an Evonik technical representative for proper selection of activation chemistry.

Note: Only one type of activator is typically needed.

***Evonik Industries AG is the owner or licensee under various patent applications relating to the use of activation chemistries**

Alkaline (High pH) Activation

Alkaline activated persulfate is the most commonly used activation method. Alkaline demand is a funcation of the alkalinity needed to neutralize generate HSO_4^- from persulfate decomposition plus the amount needed to raise ground water / soil to a pH > 10. Common alkaline sources include 25% NaOH, hydrated lime, and Portland cement.

Calculation for NaOH (high pH) demand:

Sodium hydroxide is a highly soluble form of alkalinity that is commonly used for injection events with Klozur® SP. Evonik recommends using 25% NaOH solutions as it has higher solubilities and minimal heat of dissolution issues.

				Units
NaOH Solution Concentration			25	% w/w
NaOH demand for HSO4 neutralization			21,994	lb Solution
Soil buffering amount			9,420	lb Solution
Package Type	Totes	Package Mass	2,500	lb Solution
Number of Packages			13	
Total NaOH demand			32,500	lb Solution

** note: the addition of highly concentrated or crystalline NaOH to water is very exothermic. Add NaOH slowly to water, and allow for excess heat to dissipate.

INSTALLATION VIA INJECTION

Klozur® SP will be delivered as a dry powder, packaged in 55.1-lb (25 Kg) bags, and 2,204 lb (1,000 Kg) supersacks (1,102 lbs, or 500 Kg, supersacks are available as special order items). Klozur® SP is highly soluble in water and can be injected via fixed wells, open boreholes or using direct push technology (DPT). Klozur® SP is typically batched at a concentration of between 50 to 450 g/L (5 to 35%) and Evonik recommends injecting at a concentration between 50 and 250 g/L, depending upon site design and conditions.
Effective treatment requires establishing contact between a sufficient amount of activated persulfate and the contaminant in the subsurface. A key element of establishing this contact in a source zone is the injection volume used to inject the activated persulfate reagents. Depending on the application method employed and site conditions, between 20% and 100% (with >50% typical) of the effective porosity is normally targeted during Klozur® SP injection, with a higher percent pore fill normally targeted for sites with slow groundwater velocities.
Below is an example injection scenario for the proposed mass Klozur® SP for this site. The suggested injection volumes may be altered based on the site specific conditions.

Number of Applications 1

Klozur SP Dosage	**Project Totals**	
Mass of Klozur® SP	16,365	lb
Concentration in Total Pore Volume	28	g/L
	2.7	% w/w
Application rate by soil mass (dry weight)	5.2	g/kg
Injection Locations		
Number of Injection Locations	10	locations
Radius of Influence		
Design[1]	10.0	ft
Injection[2]	7.3	ft
Overlapping Design ROI[3]	0	%
Approximate Spacing between locations[4]	17.7	ft

Injection Details	**Project Totals**	
Total Injection Volume	24,700	gal
Percentage of Effective Pore Volume	53	%
Volume per Injection Location	2,470	gal
Klozur® SP Injection Concentration	79	g/L
	7.5	% w/w
Mass per Injection Location		
Klozur® SP	1,636	lb
25% NaOH	3,250	Lbs Solution

Design parameters should be considered approximations and suggestions. Site design engineers and contractors are ultimately responsible for the field application and design.

Values are based upon client supplied data and other assumed values. Changes in any of the input values will affect and alter other values.

Notes:
1. Design radius of influence corresponds to the desired treatment radius from each injection location.
2. Injection radius of influence corresponds to the distance from each injection point the injection volume would distribute assuming uniform (cylindrical) distribution in the effective pore volume.
3. Approximate percentage of overlap between the Design ROI from the various injection locations. Actually percent overlap will depend upon injection location layout.
4. Approximate distance between injection locations. Actual distance will depend upon site layout.

APPENDIX C.2

SDS – BOS 100

TRAP & TREAT® BOS 100®

Safety Data Sheet

Issued: 07/24/2020
Supersedes: 05/22/2017
Version: 4.0

SECTION 1: Identification of the Substance/Mixture and of the Company/Undertaking

1.1. Product identifier

Product name	:	TRAP & TREAT® BOS 100®
Product form	:	Mixture
Product code	:	11271
Synonyms	:	Activated carbon; Steam activated carbon

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture	:	Adsorbent

1.3. Details of the supplier of the safety data sheet

Calgon Carbon Corporation
P.O. Box 717
Pittsburgh, PA 15230
412-787-6700

1.4. Emergency telephone number

Emergency number	:	CHEMTREC (24 HRS): 1-800-424-9300

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture

GHS-US classification

Combustible Dust
Self-heating 1 H251

Not classified as a simple asphyxiant. Product does not displace oxygen in the ambient atmosphere, but slowly adsorbs oxygen from a confined space when wet. Under conditions of anticipated and recommended use, product does not pose an asphyxiation hazard.

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US) :



GHS02

Signal word (GHS-US) : **Danger**

Hazard statements (GHS-US) :
- May form combustible dust concentrations in air
- H251 - Self-heating: may catch fire

Precautionary statements (GHS-US) :
- P235+P410 - Keep cool. Protect from sunlight
- P280 - Wear eye protection, protective gloves
- P407 - Maintain air gap between stacks/pallets
- P413 - Store at temperatures not exceeding 140°C/284°F
- P420 - Store away from other materials

2.3. Other hazards

Other hazards not contributing to the classification	:	Wet activated carbon can deplete oxygen from air in enclosed spaces. If use in an enclosed space is required, procedures for work in an oxygen deficient environment should be followed.

2.4. Unknown acute toxicity (GHS US)

No data available

SECTION 3: Composition/Information on Ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%
Activated carbon	(CAS No) 7440-44-0	≥ 68
Zero valent iron	(CAS No) 7439-89-6	≤ 32

SECTION 4: First Aid Measures

4.1. Description of first aid measures

First-aid measures general : If exposed or concerned, get medical attention/advice. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.

First-aid measures after inhalation : IF INHALED: Remove to fresh air and keep at rest in a comfortable position for breathing.

First-aid measures after skin contact : IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at least 15 minutes.

First-aid measures after eye contact : IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Continue rinsing.

First-aid measures after ingestion : IF SWALLOWED: Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center or medical professional. Get medical attention if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries after inhalation : Not expected to present a significant hazard under anticipated conditions of normal use. Dust may cause irritation respiratory system.

Symptoms/injuries after skin contact : Dust may cause irritation.

Symptoms/injuries after eye contact : Dust may cause irritation and redness.

Symptoms/injuries after ingestion : Not expected to present a significant hazard under anticipated conditions of normal use.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available.

SECTION 5: Firefighting Measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Carbon dioxide. Dry chemical. Foam. Sand.

Unsuitable extinguishing media : None known.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Self-heating; may catch fire. Dust may be combustible under specific conditions. May be ignited by heat, sparks or flames.

Explosion hazard : Dust may form explosive mixture in air.

Reactivity : Zero valent iron must be kept inert or it may react exothermically.

5.3. Advice for firefighters

Firefighting instructions : Wear NIOSH-approved self-contained breathing apparatus suitable for the surrounding fire. Use water spray or fog for cooling exposed containers. Evacuate area.

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Evacuate area. Keep upwind. Ventilate area. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8).

6.1.1. For non-emergency personnel

No additional information available.

6.1.2. For emergency responders

No additional information available.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Avoid release to the environment. Product is not soluble, but can cause particulate emission if discharged into waterways. Dike all entrances to sewers and drains to avoid introducing material to waterways. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment : Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust.

Methods for cleaning up : Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust. Dispose of material in compliance with local, state, and federal regulations.

6.4. Reference to other sections

No additional information available.

SECTION 7: Handling and Storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid dust formation. Avoid contact with skin, eyes and clothing. Do not handle until all safety precautions have been read and understood. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Keep away from sources of ignition - No smoking. Zero valent iron is highly reactive and must be kept inert or it may react exothermically.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep under inert atmosphere. Keep away from ignition sources. Store in a dry, cool and well-ventilated place. Store at temperatures not exceeding 140 °C/284 °F.

SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

Activated carbon (7440-44-0)*	
OSHA PEL (TWA) (mg/m³)	≤ 5 (Respirable Fraction) ≤ 15 (Total Dust)

Zero valent iron (7439-89-6)	
Remark (ACGIH)	OELs not established
Remark (OSHA)	OELs not established

*Exposure limits are for inert or nuisance dust. No specific exposure limits have been established for this activated carbon product by OSHA or ACGIH.

8.2. Exposure controls

Appropriate engineering controls : Zero valent iron must be kept inert or it may react exothermically. Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas. Wet activated carbon can deplete oxygen from air in enclosed spaces. If use in an enclosed space is required, procedures for work in an oxygen deficient environment should be followed.

Personal protective equipment : Gloves. Safety glasses. Protective clothing. Under insufficient ventilation wear respiratory protection.



Hand protection : Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. Suitable gloves for this specific application can be recommended by the glove supplier.

Eye protection : Use eye protection suitable to the environment. Avoid direct contact with eyes.

Skin and body protection : Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure.

Respiratory protection : Use NIOSH-approved dust/particulate respirator. Where vapor, mist, or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Granular, powder, or pelletized substance

Color : Black

Odor : Odorless

Odor threshold : No data available

pH : No data available

Relative evaporation rate (butylacetate=1) : Not applicable

Melting point : Not applicable

Freezing point : Not applicable

Boiling point : Not applicable

Flash point : No data available

Auto-ignition temperature : <140°C

Decomposition temperature : No data available

Flammability (solid, gas)	: <140 °C
Vapor pressure	: Not applicable
Relative vapor density at 20 °C	: Not applicable
Apparent density	: 0.4 - 0.7 g/cc
Solubility	: Insoluble
Log Pow	: Not applicable
Log Kow	: Not applicable
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: Not applicable
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available.

SECTION 10: Stability and Reactivity

10.1. Reactivity

Self-heating; may catch fire. Zero valent iron must be kept inert or it may react exothermically.

10.2. Chemical stability

Stable under use and storage conditions as recommended in section 7.

10.3. Possibility of hazardous reactions

No additional information available.

10.4. Conditions to avoid

Do not allow contact with air. Avoid dust formation. Heat. Ignition sources. Exposure to high concentrations of organic compounds may cause bed temperature to rise.

10.5. Incompatible materials

Air. Alkali metals. Strong oxidizing agents.

10.6. Hazardous decomposition products

Carbon monoxide (CO), carbon dioxide (CO_2).

SECTION 11: Toxicological Information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Activated carbon (7440-44-0)	
LD50 oral rat	> 2000 mg/kg

Zero valent iron (7439-89-6)	
LD50 oral rat	984 mg/kg

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified

Silica: crystalline, quartz (14808-60-7)	
IARC group	1 - Carcinogenic to humans
The International Agency for Research on Cancer (IARC) has classified "silica dust, crystalline, in the form of quartz or cristobalite" as carcinogenic to humans (group 1). However these warnings refer to crystalline silica dusts and do not apply to solid activated carbon containing crystalline silica as a naturally occuring, bound impurity. As such, we have not classified this product as a carcinogen in accordance with the US OSHA Hazard Communication Standard (29 CFR §1910.1200) but recommend that users avoid inhalation of product in a dust form.	

Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: Not expected to present a significant hazard under anticipated conditions of normal use. Dust may cause irritation respiratory system.
Symptoms/injuries after skin contact	: Dust may cause irritation.

Symptoms/injuries after eye contact	:	Dust may cause irritation and redness.
Symptoms/injuries after ingestion	:	Not expected to present a significant hazard under anticipated conditions of normal use.

SECTION 12: Ecological Information

12.1. Toxicity

No additional information available.

12.2. Persistence and degradability

No additional information available.

12.3. Bioaccumulative potential

No additional information available.

12.4. Mobility in soil

No additional information available.

12.5. Other adverse effects

No additional information available.

SECTION 13: Disposal Considerations

13.1. Waste treatment methods

Waste treatment and disposal methods	:	Vacuum or shovel material into a closed container. Dispose in a safe manner in accordance with local/national regulations. Do not allow the product to be released into the environment.
Additional information	:	Activated carbon is an adsorbent media; hazard classification is generally determined by the adsorbate. Consult U.S. EPA guidelines listed in 40 CFR 261.3 for more information on hazardous waste disposal.

SECTION 14: Transport Information

14.1. In accordance with DOT

Transport document description	:	UN3190 Self-heating solid, inorganic, n.o.s., 4.2, II
UN-No.(DOT)	:	3190
DOT NA no.	:	UN3190
Proper Shipping Name (DOT)	:	Self-heating solid, inorganic, n.o.s. (Contains: Zero Valent Iron)
Department of Transportation (DOT) Hazard Classes	:	4.2 - Class 4.2 - Spontaneously combustible material 49 CFR 173.124
Hazard labels (DOT)	:	4.2 - Spontaneously combustible



Packing group (DOT)	:	II -

14.2. Transport by sea

IMO / IMDG

UN/NA Identification Number	: UN3190
UN- Proper Shipping Name	: Self-heating solid, inorganic, n.o.s. (Contains: Zero Valent Iron)
Transport Hazard Class	: Class 4.2
Packing Group	:II

14.3. Air transport

ICAO / IATA

UN/NA No	: UN3190
UN- Proper Shipping Name	: Self-heating solid, inorganic, n.o.s. (Contains: Zero Valent Iron).
Transport Hazard Class	: Class 4.2
Packing Group	: II

14.4 Other Information

Not recommended for air transport due to material self-heating when exposed to air.

SECTION 15: Regulatory Information

15.1. US Federal regulations

TRAP & TREAT® BOS 100®	
All chemical substances in this product are listed as "Active" in the EPA (Environmental Protection Agency) "TSCA Inventory Notification (Active-Inactive) Requirements Rule" ("the Final Rule"). as of February 2019 or are otherwise exempt.	
SARA Section 311/312 Hazard Classes	Fire hazard

Cobalt (7440-48-4)*	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Listed on United States SARA Section 313	
SARA Section 313 - Emission Reporting	0.1 %

*Present below de minimis levels

15.2. International regulations

No additional information available.

15.3. US State regulations

California Proposition 65

⚠ **WARNING:** This product can expose you to Silica: Crystalline, quartz, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Component	Carcinogenicity	Developmental toxicity	Reproductive toxicity male	Reproductive toxicity female	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Silica: crystalline, quartz(14808-60-7)	X				Not available	
Cobalt(7440-48-4)	X				Not available	
Titanium dioxide(13463-67-7)	X				Not available	

Component	State or local regulations
Aluminum oxide (1344-28-1)	U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Massachusetts - Right To Know List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
Calcium sulfate (7778-18-9)	U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Massachusetts - Right To Know List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
Silica: Crystalline, quartz (14808-60-7)	U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Massachusetts - Right To Know List
Titanium dioxide (13463-67-7)	U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Massachusetts - Right To Know List
Cobalt (7440-48-4)	U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List U.S. - Massachusetts - Right To Know List

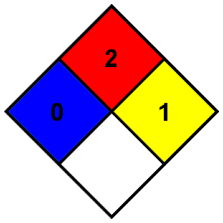
SECTION 16: Other Information

Indication of changes	:	Revision 4.0
Revision Date	:	07/24/2020
Other information	:	Author: ADK/RAK
For internal use only	:	PR #43

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

NFPA health hazard : 0 - Exposure under fire conditions would offer no hazard beyond that of ordinary combustible materials.

NFPA fire hazard	:	2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.
NFPA reactivity	:	1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.



HMIS III Rating

Health	:	0
Flammability	:	2
Physical	:	1

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. The information is this document applies to this specific material as supplied. It may not be valid if product is used in combination with other materials. It is the user's responsibility to determine the suitability and completeness of this information for their particular use. While the information and recommendations set forth herein are believed to be accurate as of the date hereof, Calgon Carbon Corporation makes no warranty with respect to the same, and disclaims all liability for reliance thereon.

APPENDIX D

PILOT TEST REPORT

ISCO AND SVE PILOT TEST REPORT

27-09 40th Avenue
Long Island City, Queens, New York

Prepared for:

40th Ave Dutch Kills Realty, LLC
38-08 30th Avenue
Astoria, NY 11103

Prepared by:

Liberty Environmental
600 Third Avenue, Second Floor
New York, NY 10016

Liberty Project No. 220192

November 21, 2022

Prepared by:
Craig Herr
Project Manager

Reviewed by:
James P Cinelli, PE, PG
Principal

Engineering Certification

I, James P. Cinelli, a licensed Professional Engineer, certify that all of the following statements are true:

- This Hydraulic and SVE Pilot Test Summary Report was prepared in accordance with the applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10); and
- The information presented in this report is accurate and complete.

I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, James P. Cinelli, of Liberty Environmental, am certifying as the Owner's Designated Site Representative.

PE Signature and Seal:



Name: James P. Cinelli Date: 11/21/2022

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Figure 1: Site Location Map

Figure 2: Pilot Test Points

Figure 3: Proposed SSDS Locations and RIO

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Appendix 1: USEPA Inventory of Injection Wells

Appendix 2: Well Construction Logs

Appendix 3: SVE Pilot Test ROI Calculation

1. INTRODUCTION

40th Avenue Dutch Kills Realty, LLC (Dutch Kills) retained Liberty Environmental (Liberty) to perform a soil vapor extraction (SVE) and in-situ chemical oxidation (ISCO) pilot tests at 27-09 40th Avenue, Long Island City, Queens, New York (the Site). The planned cleanup activities are being conducted in accordance with the New York State Department of Environmental Conservation (NYSDEC) Decision Document for Site No C241241 issued in May 2021, approving the selected remedy for the Site.

The Site is 0.40 acre and is being redeveloped into a mixed-use building consisting of commercial and residential spaces. The selected remedy includes the excavation and off-site disposal of approximately 4,500 cubic yards of contaminated soil, backfilling of the site with clean fill to establish the design grades, and operation of a soil vapor extraction (SVE) system to remove volatile organic compounds (VOCs) from the subsurface and to prevent vapors migrating off site, install a zero-valent iron vertical permeable reactive barrier (PRB) at the downgradient boundary to remedial groundwater leaving the Site, inject a chemical oxidant to remediate VOCs in groundwater beneath the Site, and install a subslab depressurization system beneath the proposed on-Site building to mitigate the migration of vapors into the building from the subsurface. The selected remedy intends to achieve a Track 1 unrestricted use; thus, no environmental easement or site management plan is anticipated.

The SVE pilot test has demonstrated that a radius of influence (ROI) of at least 40 feet is achievable at a vacuum of 20 inches of water column. The hydraulic pilot test has demonstrated that a water level response from the injection well of at least 40 feet. The groundwater quality results will be incorporated into the remedial design report.

1.1 PURPOSE AND SCOPE

The previous investigative work confirmed the presence of elevated dry cleaning solvent tetrachloroethylene (PCE) in soil, groundwater, and soil vapor at the Site. This pilot study consisted of installing two SVE extraction points, four vapor extraction monitoring points, two injection wells, and six injection monitoring points. The SVE and injection points were tested, and a radius of influence was determined. These data will be used to complete the remedial design and implementation of the cleanup remedy.

2. SITE DESCRIPTION AND BACKGROUND

2.1 Site Description

The Site consists of three adjoining lots identified as Block 397 and Lots 33, 35, and 39 on the New York City Tax Map. The Site is approximately 17,500 square feet (0.40 acre) and is bounded by 40th Avenue to the south, 28th Street to the east, a three-story residential building with an automobile garage to the north, and a three-story residential building to the west. See Figure 1 for a Site Location Map.

The Site is currently undeveloped, but past operations have included a dry cleaner, automotive repair and machine shop businesses, a glass factory, woodworking, and a photo-engraving shop. Previously, it was developed with three vacant one-story commercial structures with one structure per lot. The buildings were constructed circa 1947 (39-44 28th Street), 1950 (27-09/11 40th Avenue), and 1970 (27-03 40th Avenue) and are constructed with concrete slabs-on-grade. The building at 39-44 28th Street had a partial basement present at the northern end of the structure. The buildings have been demolished. The owner of the site, 40th Avenue Dutch Kills Realty, LLC, has entered the site in the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Program. NYSDEC approved a Remedial Action Work Plan (RWP) for the site on May 26, 2021.

2.2 Background

The Remedial Investigation indicated the localized presence of PCE source material in at least three areas on the Site, at depths varying from 20 to 27 feet, and the presence of chlorinated aliphatic hydrocarbon related-constituents in soil vapor and groundwater throughout the property. Metals, SVOCs, and pesticides were also identified in the Site's soil. The available information indicates that at least one potentially upgradient source, the Bridge Cleaners Site, may contribute to the presence of PCE in groundwater at and around the Site.

In general, contaminated historic fill material is underlain by fine to medium silty sands and silt layers, which overlie thick, competent, plastic clay at approximately 31 to 36 ft bgs. The high plasticity clay layer dips significantly towards the west and may be about 10 to 15 ft thick. The high plasticity clay acts as a hydraulic boundary layer.

As part of the Supplemental Remedial Investigation (SRI), 55 soil samples were collected and analyzed throughout the Site. In addition, ten groundwater monitoring wells were installed on-Site and off-Site as part of the SRI and sampled and analyzed to address data gaps in groundwater quality and to confirm localized groundwater flow direction. Four off-Site permanent groundwater monitoring wells were installed in sidewalks and driveways adjoining the Site. Eight soil vapor samples (four on-site and four off-site) were collected and analyzed.

3. ISCO PILOT TEST

As part of the ISCO pilot test at the Site, injection and monitoring wells were installed, a soil sample was collected and analyzed to determine a site-specific soil oxidant demand, a pre-injection groundwater sampling event was completed, a hydraulic test and the alkaline-activated persulfate (AAP) injection events were performed.

3.1 Permits

A Class V/Type 5B6, Beneficial Use-Subsurface Environmental Remediation permit-by-rule was obtained from the United States Environmental Protection Agency (USEPA) on October 4, 2022. The Inventory of Injection Wells for the site is included in Appendix A.

3.2 Well Installation

The ISCO pilot test was performed in two locations in proximity to the east and southcentral portion of the site. Injection pilot well IW-1 is located along southcentral portion of the site and injection pilot well IW-2 is located on the eastern portion of the site. The orientation of IW-2 and monitoring associated monitoring points were changed due to construction equipment being located in the proposed locations. Three injection monitoring points were installed at each ISCO injection well. Two monitoring points were installed at 10 and 20 feet from the injection pilot wells, a third monitoring point was installed perpendicular at 10 feet from the injection pilot well, and an existing monitor well was located 20 feet from the injection pilot well. The injection wells and monitoring points were installed on October 31, 2022, through November 3, 2022. See Figure 2 for the layout of the two injection wells, the six injection monitoring points, and the groundwater monitoring wells. The following table provides the well construction information, and well construction logs are included in Appendix B.

Well ID	Diameter	Screened Interval	Sand Interval	Bentonite/Grout Seal Interval	Total Well Depth
IW-1 & IW-2	2” Sch 40	35-45’ 20 slot	33-45’	0-33’	45’
IMP-1A, IMP-1B, IMP-1C, IMP-2A, IMP-2B, IMP-2C	2” Sch 40	35-45’ 20 slot	33-45’	0-33’	45’

During this intrusive activity, the Community Air Monitoring Plan (CAMP) was implemented and daily reports were submitted to the NYSDEC.

3.3 Pre-Injection Soil Oxidant Demand and Groundwater Sampling

On October 25, 2022, a soil boring was advanced on the western side of the site to collect non-contaminated soil for laboratory testing to evaluate the soil oxidant demand (SOD). The soil boring, located 1 foot to the west of EMP-2A was advanced to 30 feet. The SOD sample was collected from 20 to 30 depth and was estimated to be one kilogram of soil. The soil sample was placed into a plastic bag (no preservation was necessary) and was shipped overnight to Evonik’s laboratory in Tonawanda, NY.

Evonik reported that the SOD was similar to the originally projected value of 628 pounds (lb) and that the volumes of sodium persulfate and sodium hydroxide meet the demands of the COC and the non-target demand associated with the soil. A written report from Evonik is forthcoming and will be included in the remedial design report.

On October 25, 2022, baseline groundwater samples were collected by Laurel Environmental from MW-103, MW-105, MW-106, MW-107, MW-108, MW-109, and MW-110. These aqueous samples are being analyzed for VOCs, metals (arsenic, chromium, iron, calcium, magnesium, and manganese), and anions (chloride, sulfate, nitrate). These results will be included in the remedial design report.

3.4 Hydraulic Testing

Following the installation of the two injection wells, a hydraulic test was performed on November 8, 2022 to determine the properties of the wells and surrounding formation receiving the injectate. For this hydraulic test, the injectate was potable water. The goal of the hydraulic test was to determine the rate, pressure and ROI of the injectate into the receiving formation.

The injectate was pumped at a rate and pressure that can be optimized to maintain flow into the receiving formation and where water levels in the nearby observation points and monitoring wells are monitored for a response to the injectate. Water levels in surrounding wells and observation points were monitored with an electric water level meter.

The volume of injectate was 300 gallons at each injection point at 20 psi. The table below shows the measured response in water levels at the monitoring points and wells.

IW-1												
	Pressure	Average Flow Rate	Distance from Injection Point									
			10'		10'		20'		20'			
			IMP-1A		IMP-1B		IMP-1C		MW-105			
8-Nov-22	psi	GPM	ft bgs	change	ft bgs	change	ft bgs	change	ft bgs	change		
10:40AM	20		38.00		36.60		36.40					
11:25AM	20	7	37.90	0.10	35.45	1.15	36.19	0.21	37.85			
IW-2												
	Pressure	Average Flow Rate	Distance from Injection Point									
			10'		10'		20'		20'		40'	
			IMP-2A		IMP-2B		IMP-2C		MW-106		MW-107	
8-Nov-22	psi	GPM	ft bgs	change	ft bgs	change	ft bgs	change	ft bgs	change	ft bgs	change
11:30AM	20		39.40		38.54		34.75		36.48		35.81	
12:30PM	20	5	38.60	0.80	38	0.54	32.3	2.45	33.84	2.64	35.5	0.31

A water level response to the hydraulic test was observed in all monitoring points, and no irregularities (e.g., excessively high or low injection/response rates) were observed during the tests.

3.5 ISCO Injection

The ISCO pilot test evaluated the delivery and distribution of the sodium persulfate using the injection and monitoring well points described in the section above. The following provides a summary of the injection pilot test that was completed on November 10 and 11, 2022.

Sodium persulfate was mixed with water and then with an activator (sodium hydroxide – alkaline activation) in four 300-gallon batches then injected into each injection well, IW-1 and IW-2. Water levels in surrounding wells and observation points were monitored with an electric water level meter.

The sodium persulfate and hydroxide activator were injected at average rates ranging from 4.3 to 11.5 gallons per minute (GPM) and at pressure of 10 psi. The table below shows the measured response in water levels at the monitoring points and wells.

IW-1															
	Batch	Pressure	Average Flow Rate	Distance from Injection Point IW-1											
				10'		10'		20'		20'		50'		65'	
				IMP-1A		IMP-1B		IMP-1C		MW-105		MW-106		MW-107	
10-Nov-22		psi	GPM	ft bgs	change	ft bgs	change	ft bgs	change	ft bgs	change	ft bgs	change	ft bgs	change
9:50AM	1st	10	4.3	38.00		35.62		35.30		- *		35.35		34.95	
11:40AM	2nd	10	10	37.77	0.23	35.15	0.47	35.07	0.23	-		35.22	0.13	34.87	0.08
12:35PM	3rd	10	8.1	37.75	0.02	34.69	0.46	35.02	0.05	-		35.14	0.08	34.84	0.03
1:25PM	4th	10	11	37.51	0.24	34.46	0.23	34.97	0.05	-		34.99	0.15	34.81	0.03
IW-2															
		Pressure	Average Flow Rate	Distance from Injection Point IW-2											
				10'		10'		20'		20'		40'			
				IMP-2A		IMP-2B		IMP-2C		MW-106		MW-107			
10-Nov-22		psi	GPM	ft bgs	change	ft bgs	change	ft bgs	change	ft bgs	change	ft bgs	change		
2:20PM	1st	10	11.5												
11-Nov-22															
8:30AM	2nd	10	10.7	35.27		35.55		32.73		35.07		34.75			
9:15AM	3rd	10	10.7					32.78	-0.05	34.35	0.72	34.66	0.09		
1010AM	4th	10	15					30.20	2.58	32.57	1.78	34.61	0.05		
* Excavator was located over MW-105; no measurements were collected															

A water level response to the ISCO injection was observed in all monitoring points and nearby monitoring wells.

The post-injection groundwater sampling events will be completed on or about November 23rd, and December 9th, 2022. The groundwater results will be included in the remedial design report.

4. SVE PILOT TEST

Liberty performed an SVE pilot test at the Site on November 3 and 8, 2022 to determine the feasibility of SVE as a remedial approach, and to determine the achievable ROI.

4.1 Well Installation

The SVE pilot test was performed in two locations in proximity to the perimeter of the site. Pilot extraction well SVE-1 is located along the northern property boundary and SVE-2 is located on the western property boundary. Three vacuum monitoring points were installed at each SVE extraction well. These monitoring points were installed at 10, 20, and 35 feet from the extraction pilot wells. See Figure 2 for the layout of the two extraction wells and the four extraction monitoring points. The following table provides the well construction information and well construction logs are included in Appendix B.

Well ID	Diameter	Screened Interval	Sand Interval	Bentonite/Grout Seal Interval	Total Well Depth
SVE-1 & SVE-2	2" Sch 40	23-30' 20 slot	23-30'	0-23'	30'
EMP-1A, EMP-1B, EMP-1C, EMP-2A, EMP-2B, EMP-2C	1" Sch 40	23-30' 20 slot	23-30'	0-23'	30'

During this intrusive activity, the Community Air Monitoring Plan (CAMP) was implemented and daily reports were submitted to the NYSDEC.

4.2 SVE Pilot Test

A 7.5 horsepower regenerative blower was utilized at SVE-2 on November 3, 2022, until the motor ceased. A 5-horsepower regenerative blower was utilized at SVE-1 on November 8, 2022. The blowers were capable of creating a vacuum of 20 inches of water (in. w.g.) and airflow rates of 140 cubic feet per minute (cfm). The connection at the wellhead was made with a rubber coupling. Two-inch hard and flexible pipe was utilized to make the connection to the regenerative blower. A knockout (K/O) tank was positioned prior to the blower to remove any liquids from the air stream, and the air stream was treated with two 140-pound granular activated carbon units prior to discharge to the atmosphere. A towable three-phase electric generator was used to power the blower.

A single test was conducted for each of the two extraction wells. The testing durations were 60 minutes for SVE-1 and 70 minutes for SVE-2. The pilot study procedure consisted of the following:

- Prior to system start-up, background vacuum readings were collected from the surrounding vapor monitoring points and select monitoring wells. After system start-up, vacuum readings were collected every ~15 minutes.
- The following readings were collected prior to the blower every ~15 minutes after system startup:
  - Vacuum influent readings (in w.g.)

- Anemometer readings (cfm) on November 8th, flow meter was not operable on November 3rd
- Photoionization detector (PID) readings [part per million (ppm)]
- Temperature readings [degrees Fahrenheit (°F)]

- PID readings were also collected post blower from the post carbon vessel.

Liberty was unable to overcome the vacuum of the blower with the onsite air sampling pump during testing. Subsequent monitoring with a PID was completed before the pretreatment carbon vessel and after the posttreatment carbon vessel. The following table provides the results though a of the SVE pilot tests at SVE-1 and SVE-2.

SVE-1							
	Vacuum at	Flow at extraction point	Distance from Extraction Point			PID Measurements	
			10'	20'	35'	Influent	Effluent
	SVE-1		EMP-1A	EMP-1B	EMP-1C		
8-Nov-22	In H_2O	CFM	In. w.g.	In. w.g.	In. w.g.	ppm	ppm
11:50AM	20	135	4.01	0.084	0.076		
12:05AM	20		4.06	1.18	1.06		
12:30PM	20		4.06	1.24	1.1		
12:50PM	20	140	3.46	0.7	0.46	7.2	0
SVE-2							
	Vacuum at	Flow at extraction point	Distance from Extraction Point			PID Measurements	
			10'	20'	35'	Influent	Effluent
	SVE-2		EMP-2A	EMP-2B	EMP-2C		
3-Nov-22	In H_2O	CFM	In. w.g.	In. w.g.	In. w.g.	ppm	ppm
10:50AM	20	-	0.684	0.344	0.182		
11:05AM	20		0.839	0.89	0.466	83.1	7.6
11:20AM	20		0.899	0.97	0.426		
11:35AM	20		0.854	1.05	0.521		
11:50AM	20		1.01	1.05	0.521	23.6	3.5
12:05PM	40	-	3.22	2.33	1.06		

A vacuum response of at least 0.1 in. w.g. was recorded at all three monitoring points. Therefore, it was determined that additional tests are higher vacuums were not needed.

4.3 SVE Pilot Test Results

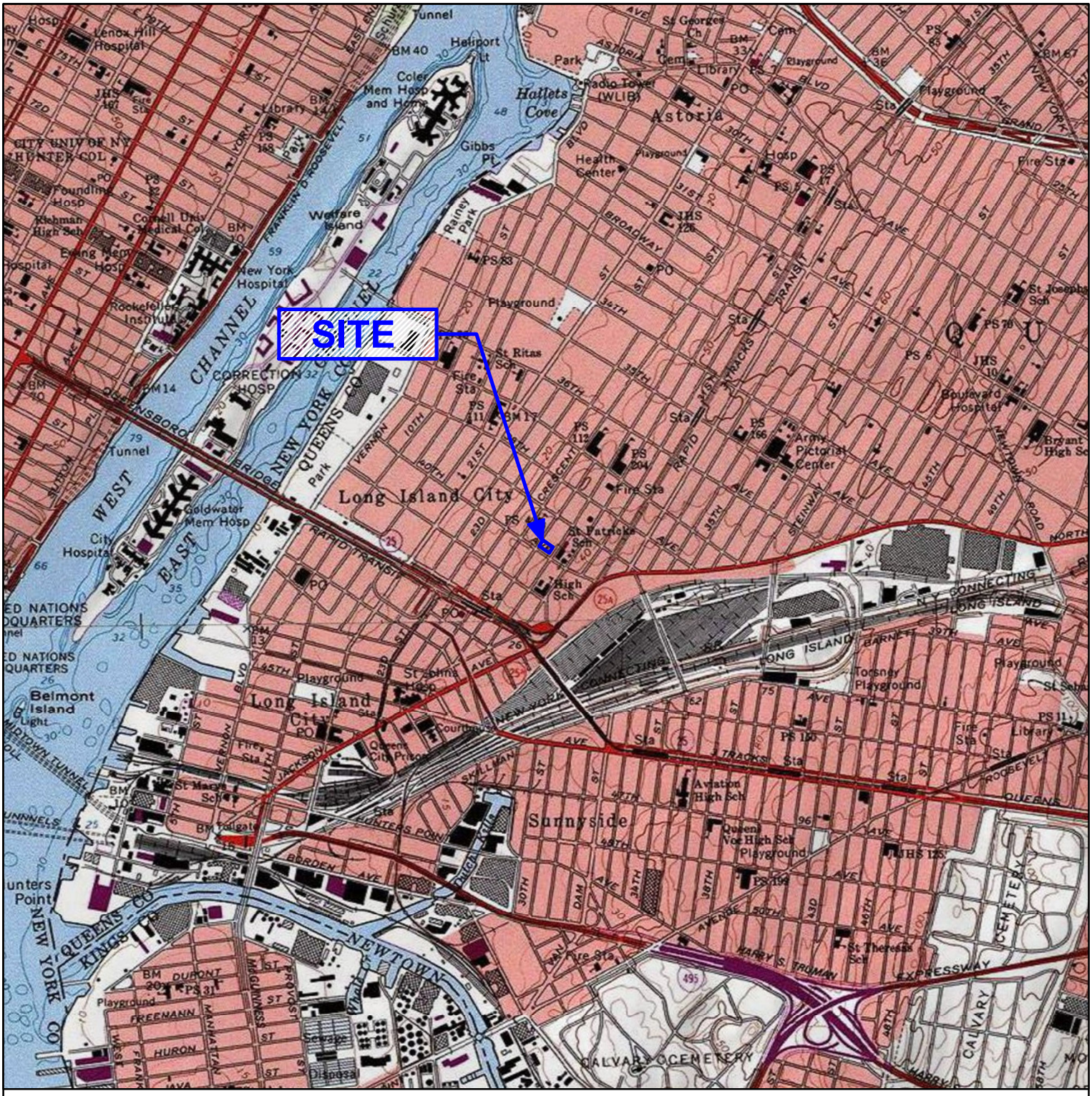
Data from the surrounding vapor monitoring points were plotted and a linear trend line was fit to the data. A rule-of-thumb vacuum ROI indicating the effective limit of air flow, which is often applied in SVE design, is 0.1 in. w.g. The point on the graphs at which the trendline intercepts the design criteria line is considered to be the effective ROI observed during the test.

An ROI of 43 feet is calculated for SVE-1 and 47 feet for SVE-2. The calculations and corresponding plots are presented in Appendix 3.

Based on the results of the pilot study, SVE has been demonstrated as a viable option for mitigating the migration of vapors from beneath the site. A conservative soil vapor extraction well spacing for system design based on the observed ROI during testing would be approximately 40 feet. Figure 3 shows a conceptual sub slab depressurization system extraction location and the 40-foot ROI.

5. RAWP ADDENDUM

A Remedial Action Work Plan (RAWP) Addendum will be prepared for submission to DEC after completing the pilot tests. The report will provide descriptions of the pilot test methods, an evaluation of the test results, and plans for full-scale implementation of remedial technologies at the Site.



SOURCE: USA TOPO MAPS - COPYRIGHT © 2013 NATIONAL GEOGRAPHIC SOCIETY, I-CUBED. CENTRAL PARK (SITE - 1995)) AND BROOKLYN (1995) NEW YORK 7.5-MINUTE QUADRANGLES.

SCALE: 1 " = 2,000 '

0 1,000 2,000 4,000'

N

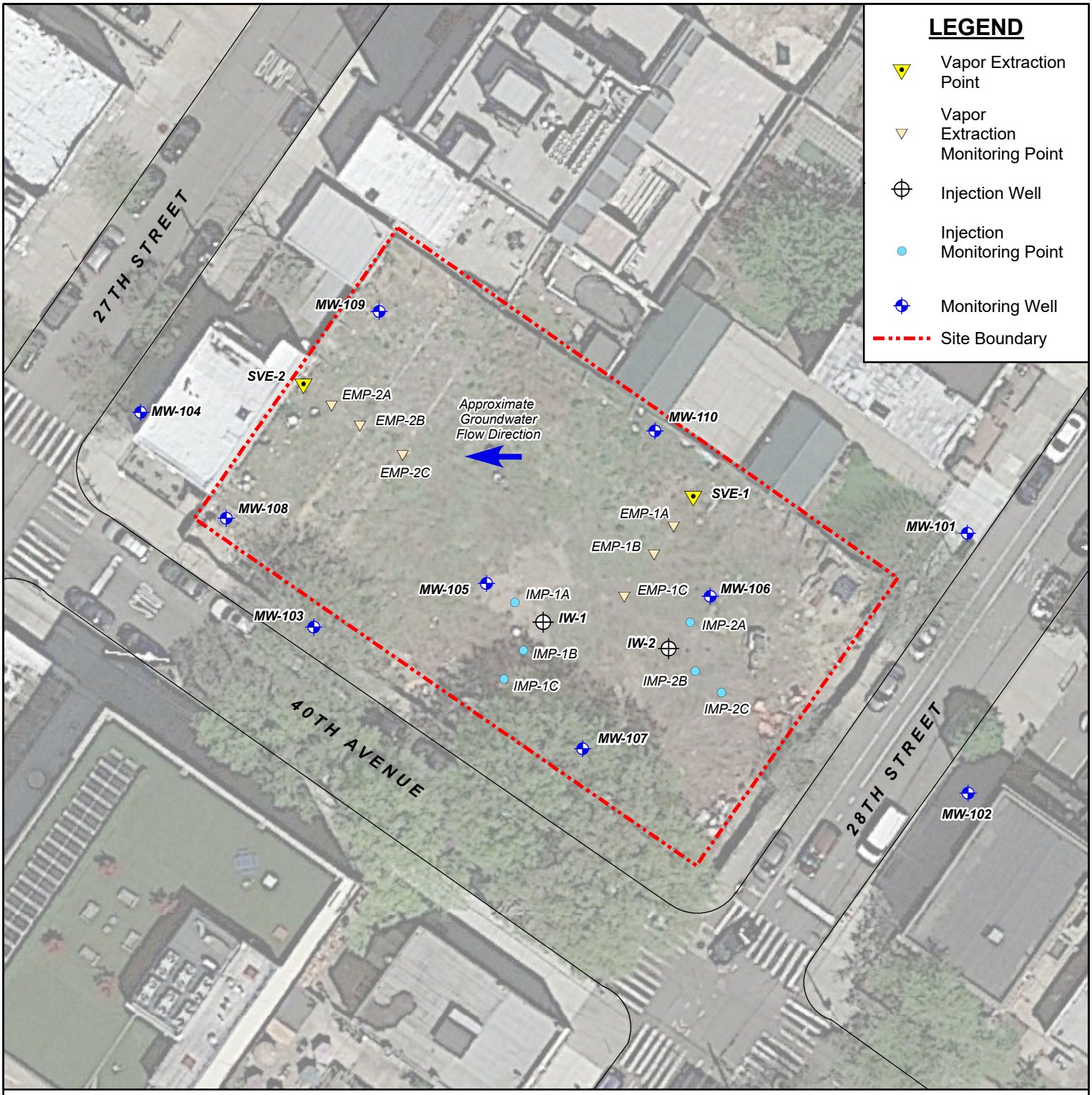
Liberty Environmental, Inc.

600 Third Avenue, Second Floor
New York, NY 10016
Phone: 800-305-6019
www.libertyenviro.com

Figure 1 - Site Location Map

27-09 40th Avenue
Long Island City, Queens, New York

PROJECT NO.: 220192	REV: 0	PREPARED BY: JRY
DATE: SEPTEMBER 6, 2022	SCALE: 1" = 2,000'	APPROVED BY: CNH



NOTE: THIS DRAWING INTENDED FOR ILLUSTRATIVE PURPOSES ONLY, AS PART OF A SITE CHARACTERIZATION.
NOT TO BE USED AS A BASIS FOR ENGINEERING OR DESIGN
IMAGE SOURCE: GOOGLE EARTH. PHOTO DATE: APRIL 2022.

SCALE: 1 " = 40 '
0 20 40 80'

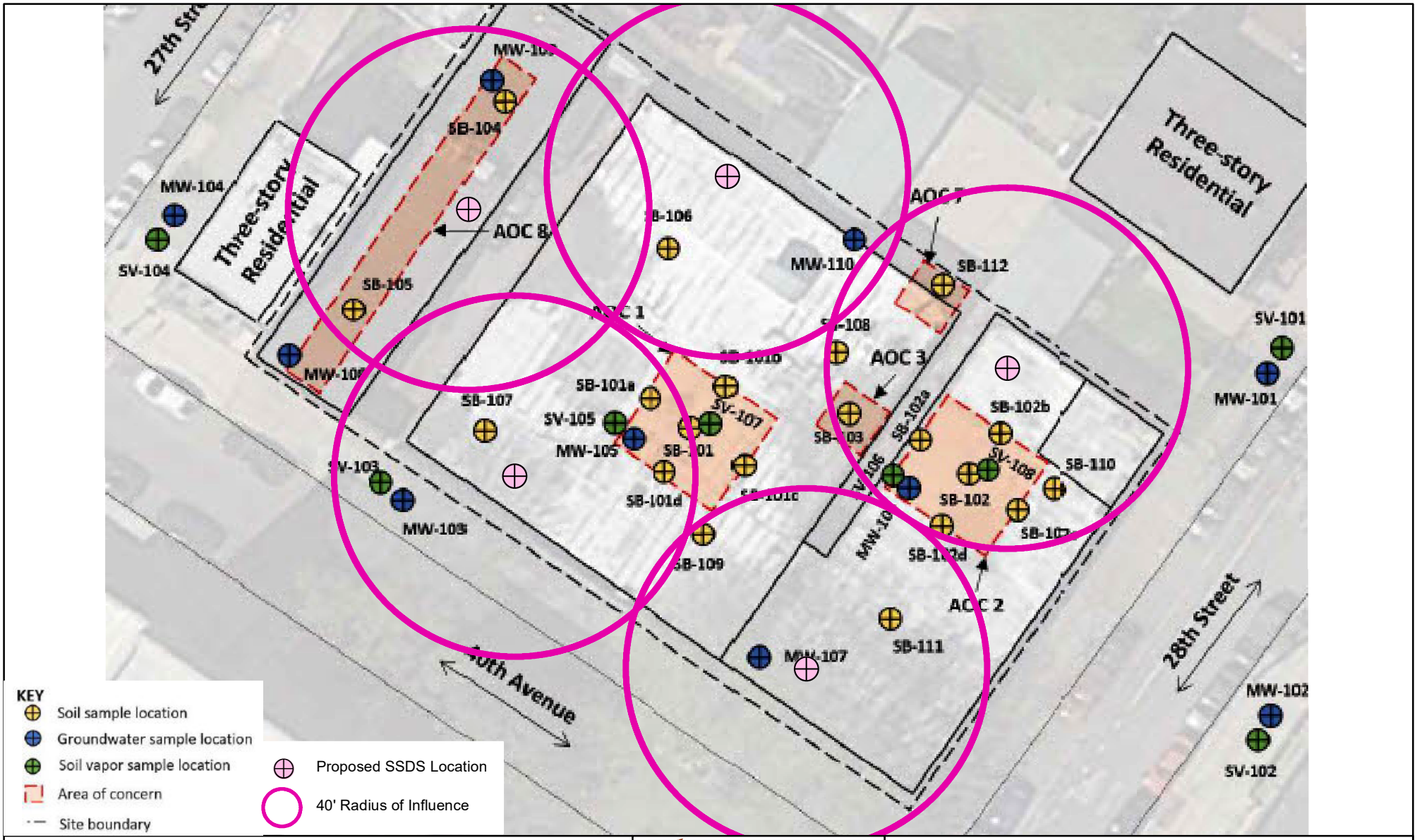
N

Figure 2 - Pilot Test Points

27-09 40th Avenue
Borough of Queens, City of New York, New York

Liberty Environmental, Inc.
600 Third Avenue, Second Floor
New York, NY 10016
Phone: 212-255-0374
www.libertyenviro.com

PROJECT NO.: 220192	REV: 4	PREPARED BY: JRY
DATE: NOVEMBER 15, 2022	SCALE: 1" = 40'	APPROVED BY: CNH



NOTE: THIS DRAWING INTENDED FOR ILLUSTRATIVE PURPOSES ONLY, AS PART OF A SITE CHARACTERIZATION.
NOT TO BE USED AS A BASIS FOR ENGINEERING OR DESIGN
IMAGE SOURCE: CHAZEN COMPANIES, FIGURE 14 - CONCENPTUAL SOIL VAPOR EXTRACTION SYSTEM LAYOUT. SUBMITTED WITH REMEDIAL ACTION WORK PLAN DATED JANUARY 2021.

N

SCALE: 1 " = 30 '

0 15 30 60'

Figure 3 - Proposed SSDS Locations and Radius of Influence

27-09 40th Avenue
Borough of Queens, City of New York, New York

Liberty Environmental, Inc.
600 Third Avenue, Second Floor
New York, NY 10016
Phone: 212-255-0374
www.libertyenviro.com

PROJECT NO.: 220192	REV: 1	PREPARED BY: JRY
DATE: NOVEMBER 15, 2022	SCALE: 1" = 30'	APPROVED BY: JPC

APPENDIX 1
USEPA Inventory of Injection Wells

Type or print all information. See reverse for instructions.

OMB No. 2040-0042 Approval Expires 4/30/2022

INVENTORY OF INJECTION WELLS

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

(This information is collected under the authority of the Safe Drinking Water Act)

1. DATE PREPARED *(Year, Month, Day)*

2022-09-20

2. FACILITY ID NUMBER (To be completed by the permitting authority)

3. FACILITY INFORMATION

NAME, ADDRESS, PHONE NUMBER AND/OR EMAIL

40th Ave Dutch Kills Realty, LLC

27-09 40th Ave, Long Island City, NY 11101

9179074037 - (tonyraouf@gmail.com)

INDIAN COUNTRY No

4. LEGAL CONTACT INFORMATION

NAME, ADDRESS, ORGANIZATION, PHONE NUMBER AND/OR EMAIL

Tony Raouf

36-08 36th Ave, Astoria, NY 11106 - 40th Ave Dutch Kills Realty, LLC

9179074037 - (tonyraouf@gmail.com)

TYPE Owner

5. LOCATIONAL INFORMATION

Surface Location

1/4 of 1/4 of Section Township Range

Lanca

ft. from (N/S) Line of quarter section

ft. from (E/W) Line of quarter section.

Latitude 40.752994

Longitude 73.936486

6. WELL INFORMATION:

A. CLASS AND TYPE		B. NUMBER OF WELLS		C. TOTAL NUMBER OF WELLS	D. WELL OPERATION STATUS				
		COMM	NON-COMM		UC	AC	TA	PA	AN
5	*	0	12	12	**				

KEY: AC = Active
UC = Under Construction
PA = Permanently Abandoned and Approved by State
AN = Permanently Abandoned and not Approved by State
TA = Temporarily Abandoned

Comments (Optional):

* Class V/Type 5B6 - Beneficial Use - Subsurface Environmental Remediation

** Proposed Wells

Name and Official Title *(Please type or print)*

Craig Herr - (Project Manager)

Date Submitted

2022-09-20

INSTRUCTIONS FOR FORM 7520-16

Use this form to provide inventory information about injection wells regulated under the Underground Injection Control Program.

DATE PREPARED: Enter date in order of year, month, and day.

FACILITY OR EPA ID NUMBER: This will be completed by EPA or the permitting authority.

NAME, ADDRESS, PHONE AND/OR EMAIL OF FACILITY: Enter the name and street address, city/town, state, and ZIP code of the facility. Also provide an email address (if available) and/or a phone number.

INDIAN COUNTRY: Check yes if the well is located in Indian country. Indian country (as defined in 18 U.S.C. 1151) includes: all land within the limits of any Indian reservation under the jurisdiction of the U.S. government; all dependent Indian communities within the borders of the U.S.; and all Indian allotments, the Indian titles to which have not been extinguished.

NAME, ADDRESS, PHONE, ORGANIZATION, AND/OR EMAIL OF LEGAL CONTACT: Enter the name and street address, city/town, state, and ZIP code and the name of the organization to which the legal contact for any questions regarding the information provided belongs. Also provide an email address (if available) and/or a phone number.

LEGAL CONTACT TYPE: Check the appropriate box to indicate the type of legal contact (i.e., owner or operator). For wells operated by lease, the operator is the legal contact.

WELL LOCATION: Fill in the complete township, range, and section to the nearest quarter-quarter section. A township is north or south of the baseline, and a range is east or west of the principal meridian (e.g., T12N, R34W). Also include the distance, in feet, from the nearest north or south line and nearest east or west line of the quarter-section. Also, enter the **latitude** and **longitude** of the well in decimal degrees, to five or six places if possible; be sure to include a negative sign for the longitude of a well in the Western Hemisphere and a negative sign for the latitude of a well in the Southern Hemisphere. For an area permit, give the latitude and longitude of the approximate center of the area.

WELL CLASS AND TYPE: Enter the class (as defined in 40 CFR 144.6) and type of injection well. Use the most pertinent code selected from the list on the next page. When selecting type X, please explain in the comment space.

NUMBER OF WELLS: Enter the total number of **commercial** and **non-commercial** wells of each class/type, as applicable. A commercial facility is a single or multiple well facility that is specifically engaged in the business of injecting waste fluids generated by third party producers that is originated off-site and transported to the facility by truck for a fee or compensation.

TOTAL NUMBER OF WELLS: Enter the total number of injection wells of each specified class and type.

WELL OPERATION STATUS: Enter the number of wells under each operation status (use the key on the front of the form).

PAPERWORK REDUCTION ACT NOTICE: The public reporting and recordkeeping burden for this collection of information is estimated to average 0.4 hours per response. Burden means the total time, effort, or financial resource expended by persons to generate, maintain, retain, or disclose or provide information to or for a Federal Agency. This includes the time needed to review instructions; develop, acquire, install, and utilize technology and systems for the purposes of collecting, validating, and verifying information, processing and maintaining information, and disclosing and providing information; adjust the existing ways to comply with any previously applicable instructions and requirements; train personnel to be able to respond to the collection of information; search data sources; complete and review the collection of information; and, transmit or otherwise disclose the information. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid OMB control number. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including the use of automated collection techniques to Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822), 1200 Pennsylvania Ave., NW., Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed forms to this address.

CLASS AND TYPE OF WELL

CLASS I: Wells that inject industrial and municipal waste, including hazardous waste, beneath the lowermost formation containing a USDW.

Type	
I	Non-Hazardous Industrial Disposal Well.
M	Non-Hazardous Municipal Disposal Well.
H	Hazardous Waste Disposal Well injecting below the lowermost USDW.
R	Radioactive Waste Disposal Well.
X	Other Class I Wells (not included in Type “I,” “M,” “H,” or “R”).

CLASS II: Wells used to dispose of fluids which are brought to the surface in connection with oil or natural gas production; to inject fluids for enhanced recovery of oil or natural gas; or to store hydrocarbons.

Type	
A	Annular Disposal Well.
D	Produced Fluid Disposal Well.
H	Hydrocarbon Storage Well (excluding natural gas).
R	Enhanced Recovery Well.
X	Other Class II Wells (not included in Type “A,” “D,” “H,” or “R”).

CLASS III: Wells that inject fluids for the extraction of minerals.

Type	
G	In Situ Gasification Well.
M	Solution Mining Well.
S	Sulfur Mining Well by Frasch Process.
T	Geothermal Well.
U	Uranium Mining Well (excluding solution mining of conventional mines).
X	Other Class III Wells (not included in Type “G,” “M,” “S,” “T,” “U,” or “X”).

CLASS IV: Wells that inject hazardous waste into/above USDWs.

Type	
H	Hazardous Facility Injection Well.
R	Remediation Well at RCRA or CERCLA site.

CLASS V: Wells not currently classified as Class I, II, III, IV, or VI.

Type	
A	Industrial Well.
B	Beneficial Use Well.
C	Fluid Return Well.
D	Sewage Treatment Effluent Well.
E	Cesspool (non?domestic).
F	Septic System.
G	Experimental Technology Well.
H	Drainage Well.
I	Mine Backfill Well.
J	Waste Discharge Well.

APPENDIX 2
Well Construction Logs

WELL CONSTRUCTION LOG

Project #: 220192	Project Name: 27-09 40TH AVENUE	Driller: Coastal Environment
Boring #: IW-1	Date: 11/01/2022	Page 1 of 1
Method: GEOPROBE Rotary Drilling	Geologist: Y. SPENCER	Boring Location: South-Center of Site

Depth (ft)	PID (ppm)	Recovery (ft)	Blow Counts	Sample I.D.	Description	USCS	Remarks
	0.2	N/A	N/A	N/A	WELL DEPTH: 45 FT CONSTRUCTION START: 1134 DRILLING END: 1324 CONSTRUCTION END: 1340 0'-10': topsoil/fill material, dark brown and saturated from surface water runoff; strong petroleum-like odor 10'-20': petroleum like-odor stronger; loose silty sand, light brown w/ sub-rounded gravel < ½-inch diameter 20'-30': same sand material with orange-brown color 30'-45': silty sand, lighter brown with little to no gravel; stronger petrol-like odor --SATURATION @ 35'-- Cemented with 5' yellow, metal stick-up casing.		Depth-to-first-water-bearing-zone: N/A
5							Depth-to-bedrock: N/A
	2.4						Depth-to-saturation: 35'
10							Borehole Diameter: 3"
	3.2						**Well Construction:**
15							**Riser Type:** 2" diameter Solid 40-PVC
	8.6						From: 35 feet bgs
							To: 5 feet ags
							Feet: 30 feet
20							**Screen Type:** 2" Diameter 20-Slot Slotted Screen
	3.3						From: 45 feet bgs
							To: 35 feet bgs
25							Feet: 10 feet
	4.0						**Sand Pack Type:** Filpro Well-Graded, Medium Grade
							From: 45 ft bgs
30							To: 33 ft bgs
	4.6						Bags: 4
							Bentonite Type: Granular Plugs
							From: 33 feet bgs
35							To: 31 feet bgs
	11.0						Bags: 2
							Grout Type: Bentonite Powder w/ Concrete
							From: 31 ft bgs
40							To: 0 ft bgs
	1.3						Bags: 2
							Concrete Type: Hi-Strength w/ Bentonite
							From: 31 ft bgs
							To: 0 ft bgs
45							Bags: 4

WELL CONSTRUCTION LOG

Project #: 220192	Project Name: 27-09 40TH AVENUE	Driller: Coastal Environment
Boring #: IMP-1A	Date: 10/31/2022	Page 1 of 1
Method: GEOPROBE ROTARY DRILLING	Geologist: Y. SPENCER	Boring Location: SW of site, 10' from MW 105

Depth (ft)	PID (ppm)	Recovery (ft)	Blow Counts	Sample I.D.	Description	USCS	Remarks
	0.3	N/A	N/A	N/A	WELL DEPTH: 45 FT CONSTRUCTION START: 1039 CONSTRUCTION END: 1232 0'-10': topsoil/fill material, dark brown and saturated from surface water runoff 10'-20': soft and loose soil and sand, brown w/ 10% gravel, sub-rounded 20'-30': sandy clay with sand similar to above 30'-45': silty-sand with little to no gravel, orange-brown color		Depth-to-first-water-bearing-zone: N/A
5							Depth-to-bedrock: N/A
	1.4						Depth-to-saturation: 35'
10							Borehole Diameter: 3"
	1.7						**Well Construction:**
15							**Riser Type:** 2" diameter Solid 40-PVC
	3.3						From: 35 feet bgs
							To: 5 feet ags
							Feet: 30 feet
20							**Screen Type:** 2" Diameter 20-Slot Slotted Screen
	0.6						From: 45 feet bgs
							To: 35 feet bgs
25							Feet: 10 feet
	0.4						**Sand Pack Type:** Filpro Well-Graded, Medium Grade
							From: 45 ft bgs
30							To: 33 ft bgs
	0.4						Bags: 4
							Bentonite Type: Granular Plugs
							From: 33 feet bgs
35							To: 31 feet bgs
	0.3						Bags: 2
							Grout Type: Bentonite Powder -- Cetco
							From: 31 ft bgs
40							To: 0 ft bgs
	0.4						Bags: 6
							Concrete Type:
							From:
							To:
45							Bags:

WELL CONSTRUCTION LOG

Project #: 220192	Project Name: 27-09 40TH AVENUE	Driller: Coastal Environment
Boring #: IMP-1B	Date: 10/31/2022 & 11/01/2022	Page 1 of 1
Method: GEOPROBE ROTARY DRILLING	Geologist: Y. SPENCER	Boring Location: South-Center

Depth (ft)	PID (ppm)	Recovery (ft)	Blow Counts	Sample I.D.	Description	USCS	Remarks
	0.6	N/A	N/A	N/A	WELL DEPTH: 45 FT 10/31/2022 CONSTRUCTION START: 1254 CONSTRUCTION END: 1400 11/01/2022 CONSTRUCTION START: 0730 CONSTRUCTION END: 1128 0'-10': topsoil/fill material, dark brown and saturated from surface water runoff 10'-20': soft and loose soil and sand, brown w/ 10% gravel, sub-rounded 20'-30': sandy clay with sand similar to above 30'-45': silty-sand with little to no gravel, orange-brown color --SATURATED @ 35FT--		Depth-to-first-water-bearing-zone: N/A
5							Depth-to-bedrock: N/A
	0.3						Depth-to-saturation: 35'
10							Borehole Diameter: 3"
	0.7						**Well Construction:**
15							**Riser Type:** 2" diameter SOLID 40-PVC
	--						From: 35 feet bgs
							To: 5 feet ags
							Feet: 30 feet
20							**Screen Type:** 2" Diameter 20-Slot Slotted Screen
	0.8						From: 45 feet bgs
							To: 35 feet bgs
25							Feet: 10 feet
	0.4						**Sand Pack Type:** Filpro Well-Graded, Medium Grade
30							From: 45 ft bgs To: 33 ft bgs
	0.4						Bags: 4 **Bentonite Type:** Granular Plugs
35							From: 33 feet bgs To: 31 feet bgs
	0.3						Bags: 2 **Grout Type:** Bentonite Powder -- Cetco
40							From: 31 ft bgs To: 0 ft bgs
	0.4						Bags: 5 **Concrete Type:** Hi-Strength
45							From: 5 ft bgs To: 0 ft bgs Bags: 1

WELL CONSTRUCTION LOG

Project #: 220192	Project Name: 27-09 40TH AVENUE	Driller: Coastal Environment
Boring #: IMP-1C	Date: 11/01/2022	Page 1 of 1
Method: GEOPROBE Rotary Drilling	Geologist: Y. SPENCER	Boring Location: South-Center of Site

Depth (ft)	PID (ppm)	Recovery (ft)	Blow Counts	Sample I.D.	Description	USCS	Remarks
	0.0	N/A	N/A	N/A	WELL DEPTH: 45 FT CONSTRUCTION START: 0800 DRILLING END: 1042 CONSTRUCTION END: 1106 0'-5': topsoil/fill material, dark brown and saturated from surface water runoff 5'-10': soft and loose soil and sand, brown w/ 25% gravel that was sub-rounded 10'-15': same sand material with orange hue 15'-45': saturated silty-sand with little to no gravel, orange-brown color		Depth-to-first-water-bearing-zone: N/A
5							Depth-to-bedrock: N/A
	0.2						Depth-to-saturation: 35'
10							Borehole Diameter: 3"
	0.0						**Well Construction:**
15							**Riser Type:** 2" diameter Solid 40-PVC
	0.0						From: 35 feet bgs
							To: 5 feet ags
							Feet: 30 feet
20							**Screen Type:** 2" Diameter 20-Slot Slotted Screen
	0.2						From: 45 feet bgs
							To: 35 feet bgs
25							Feet: 10 feet
	0.2						**Sand Pack Type:** Filpro Well-Graded, Medium Grade
30							From: 45 ft bgs
							To: 33 ft bgs
	0.1						Bags: 4
35							**Bentonite Type:** Granular Plugs
	0.3						From: 33 feet bgs
40							To: 31 feet bgs
							Bags: 2
							Grout Type: Bentonite Powder w/ Concrete
							From: 31 ft bgs
							To: 0 ft bgs
	0.3						Bags: 2
45							**Concrete Type:** Hi-Strength w/ Bentonite
							From: 31 ft bgs
							To: 0 ft bgs
							Bags: 5

WELL CONSTRUCTION LOG

Project #: 220192	Project Name: 27-09 40TH AVENUE	Driller: Coastal Environment
Boring #: IW-2	Date: 11/02/2022	Page 1 of 1
Method: GEOPROBE ROTARY DRILLING	Geologist: Y. SPENCER	Boring Location: SE/Center of Site; Long Island City

Depth (ft)	PID (ppm)	Recovery (ft)	Blow Counts	Sample I.D.	Description	USCS	Remarks
	0.4	N/A	N/A	N/A	WELL DEPTH: 45 FT CONSTRUCTION START: 1154 CONSTRUCTION END: 1327 0'-10': topsoil/fill material, dark brown and saturated from surface water runoff 10'-20': loose sand, brown w/ 20% gravel that was sub-rounded and had a max diameter of 3" 20'-30': same sand material with 10% gravel that had max diameter of 1" 30'-35': silty sand, lighter brown with less than 10% gravel --SATURATION 35'-- 35'-45': saturated silt with little to no gravel Cemented with 5' yellow, metal stick-up casing.		Depth-to-first-water-bearing-zone: N/A
5							Depth-to-bedrock: N/A
	0.7						Depth-to-saturation: 35'
10							
	0.6						Borehole Diameter: 3"
15							**Well Construction:**
	0.4						**Riser Type:** 2" diameter SOLID 40-PVC
							From: 35 feet bgs
							To: 5 feet ags
20							Feet: 30 feet
	0.3						**Screen Type:** 2" Diameter 20-Slot Slotted Screen
							From: 45 feet bgs
25							To: 35 feet bgs Feet: 10 feet
	0.3						**Sand Pack Type:** Filpro Well-Graded, Medium Grade
30							From: 45 ft bgs To: 33 ft bgs
	0.2						Bags: 4 **Bentonite Type:** Granular Plugs
35							From: 33 feet bgs To: 31 feet bgs
	0.2						Bags: 3 **Grout Type:** Bentonite Powder w/ Concrete
40							From: 31 ft bgs To: 0 ft bgs
	0.7						Bags: 4 **Concrete Type:** Hi-Strength w/ Bentonite
45							From: 31 ft bgs To: 0 ft bgs Bags: 4

WELL CONSTRUCTION LOG

Project #: 220192	Project Name: 27-09 40TH AVENUE	Driller: Coastal Environment
Boring #: IMP-2A	Date: 11/03/2022	Page 1 of 1
Method: GEOPROBE Rotary Drilling	Geologist: Y. SPENCER	Boring Location: SE/Center of Site

Depth (ft)	PID (ppm)	Recovery (ft)	Blow Counts	Sample I.D.	Description	USCS	Remarks
	0.4	N/A	N/A	N/A	WELL DEPTH: 45 FT CONSTRUCTION START: 0754 CONSTRUCTION END: 0934 0'-5': topsoil/fill material, dark brown and saturated from surface water runoff 5'-15': loose sand, brown w/ 20% gravel that was sub-rounded and had a max diameter of 2" 15'-30': same sand material with 10% gravel that had max diameter of 1/2" 30'-35': silty sand, lighter brown with less than 10% gravel 35'-39': same material with less than 3% gravel 39'-45': saturated silt with little to no gravel		Depth-to-first-water-bearing-zone: N/A
5							Depth-to-bedrock: N/A
	0.4						Depth-to-saturation: 39'
10							Borehole Diameter: 3"
	0.4						**Well Construction:**
15							**Riser Type:** 2" Diameter SOLID 40-PVC
	0.3						From: 35 feet bgs
20							To: 5 feet ags
	0.2						Feet: 30 feet
25							**Screen Type:** 2" Diameter 20-Slot Slotted Screen
	0.4						From: 45 feet bgs
30							To: 35 feet bgs
	0.0						Feet: 10 feet
35							**Sand Pack Type:** FILPRO Well-Graded, Medium Grade
	0.2						From: 45 ft bgs
40							To: 34 ft bgs
	0.1						Bags: 3.5
45							**Bentonite Type:** Granular Plugs
							From: 33 feet bgs
							To: 31 feet bgs
							Bags: 3
							Grout Type: Bentonite Powder w/ Concrete
							From: 31 ft bgs
							To: 0 ft bgs
							Bags: 4
							Concrete Type: Hi-Strength w/ Bentonite
							From: 31 ft bgs
							To: 0 ft bgs
							Bags: 4

WELL CONSTRUCTION LOG

Project #: 220192	Project Name: 27-09 40TH AVENUE	Driller: Coastal Environment
Boring #: IMP-2B	Date: 11/02/2022	Page 1 of 1
Method: GEOPROBE Rotary Drilling	Geologist: Y. SPENCER	Boring Location: SE/Center of Site

Depth (ft)	PID (ppm)	Recovery (ft)	Blow Counts	Sample I.D.	Description	USCS	Remarks
	0.2	N/A	N/A	N/A	WELL DEPTH: 45 FT CONSTRUCTION START: 1001 CONSTRUCTION END: 1126 0'-10': topsoil/fill material, dark brown and saturated from surface water runoff 10'-20': loose sand, brown w/ 20% gravel that was sub-rounded and had a max diameter of 3" --HIT POSSIBLE CONCRETE SLAB @ 10-12'-- 20'-30': same sand material with 10% gravel that had max diameter of 1" 30'-33': silty sand, lighter brown with less than 10% gravel --SATURATION 33'-- 35'-45': saturated silt with little to no gravel		Depth-to-first-water-bearing-zone: N/A
5							Depth-to-bedrock: N/A
	0.3						Depth-to-saturation: 33'
10							
	0.7						Borehole Diameter: 3"
15							**Well Construction:**
	0.4						**Riser Type:** 2" diameter Solid 40-PVC
							From: 35 feet bgs
							To: 5 feet ags
							Feet: 30 feet
20							**Screen Type:** 2" Diameter 20-Slot Slotted Screen
	0.7						From: 45 feet bgs
							To: 35 feet bgs
25							Feet: 10 feet
	0.5						**Sand Pack Type:** Filpro Well-Graded, Medium Grade
30							From: 45 ft bgs To: 33 ft bgs
	0.4						Bags: 4 **Bentonite Type:** Granular Plugs
35							From: 33 feet bgs To: 31 feet bgs
	0.3						Bags: 3 **Grout Type:** Bentonite Powder w/ Concrete
40							From: 31 ft bgs To: 0 ft bgs
	0.5						Bags: 4 **Concrete Type:** Hi-Strength w/ Bentonite
45							From: 31 ft bgs To: 0 ft bgs Bags: 4

WELL CONSTRUCTION LOG

Project #: 220192	Project Name: 27-09 40TH AVENUE	Driller: Coastal Environment
Boring #: IMP-2C	Date: 11/02/2022	Page 1 of 1
Method: GEOPROBE ROTARY DRILLING	Geologist: Y. SPENCER	Boring Location: SE/Center of Site

Depth (ft)	PID (ppm)	Recovery (ft)	Blow Counts	Sample I.D.	Description	USCS	Remarks
	0.1	N/A	N/A	N/A	WELL DEPTH: 45 FT CONSTRUCTION START: 0749 CONSTRUCTION END: 0926 0'-5': topsoil/fill material, dark brown and saturated from surface water runoff 5'-15': loose sand, brown w/ 20% gravel that was sub-rounded and had a max diameter of 3" 15'-30': same sand material with 10% gravel that had max diameter of 1" 30'-35': silty sand, lighter brown with less than 10% gravel 35'-37.5': same material with less than 3% gravel 37.5'-45': saturated silt with little to no gravel		Depth-to-first-water-bearing-zone: N/A
5							Depth-to-bedrock: N/A
	0.1						Depth-to-saturation: 37.5'
10							Borehole Diameter: 3"
	0.1						**Well Construction:**
15							**Riser Type:** 2" diameter SOLID 40-PVC
	0.2						From: 35 feet bgs
							To: 5 feet ags
							Feet: 30 feet
20							**Screen Type:** 2" Diameter 20-Slot Slotted Screen
	0.2						From: 45 feet bgs
							To: 35 feet bgs
25							Feet: 10 feet
	0.2						**Sand Pack Type:** Filpro Well-Graded, Medium Grade
30							From: 45 ft bgs To: 33 ft bgs
	0.4						Bags: 4 **Bentonite Type:** Granular Plugs
35							From: 33 feet bgs To: 31 feet bgs
	0.2						Bags: 3 **Grout Type:** Bentonite Powder w/ Concrete
40							From: 31 ft bgs To: 0 ft bgs
	0.1						Bags: 4 **Concrete Type:** Hi-Strength w/ Bentonite
45							From: 31 ft bgs To: 0 ft bgs Bags: 4

WELL CONSTRUCTION LOG

Project #: 220192	Project Name: 27-09 40TH AVENUE	Driller: Coastal Environment
Boring #: SVE-1	Date: 10/31/2022	Page 1 of 1
Method: GEOPROBE – Air Rotary Drill	Geologist: Y. SPENCER	Boring Location: North-Center of Site

Depth (ft)	PID (ppm)	Recovery (ft)	Blow Counts	Sample I.D.	Description	USCS	Remarks
	CAMP	N/A	N/A	N/A	0'-10': topsoil/fill material, dark brown, loose 10'-20': silty sand, brown w/ 10% gravel, sub-rounded 20'-30': sandy clay with sand same as above WELL DEPTH: 30 FT CONSTRUCTION START: 0811 CONSTRUCTION END: 0945 PID @ 15' = 1.4 ppm PID @ 30' = 1.0 ppm FITTED WITH 5' YELLOW METAL CASING		Depth-to-first-water-bearing-zone: N/A Depth-to-bedrock: N/A Depth-to-saturation: N/A Borehole Diameter: 3" **Well Construction:** **Riser Type:** 2" diam. Solid 40-PVC From: 25 feet bgs To: 5 feet ags Feet: 30 feet **Screen Type:** 2" diam. 20-slot slotted screen From: 30 feet bgs To: 25 feet bgs Feet: 5 feet **Sand Pack Type:** FILPRO Well-Graded, Med From: 30 ft bgs To: 23 ft bgs Bags: 2 **Bentonite Type:** Granular Clay & Powder From: 23 feet bgs To: 0 feet bgs Bags: 2.5 **Grout Type:** From: To: Bags:

WELL CONSTRUCTION LOG

Project #: 220192	Project Name: 27-09 40TH AVENUE	Driller: E-PHASE 2
Boring #: EMP-1A	Date: 10/26/2022	Page 1 of 1
Method: GEOPROBE – HAMMER DRILL	Geologist: Y. SPENCER	Boring Location: LONG ISLAND CITY, QUEENS, NY

Depth (ft)	PID (ppm)	Recovery (ft)	Blow Count	Sample I.D.	Description	USCS	Remarks
	CAMP	N/A	N/A	N/A	The method of drilling boring hole for well was the direct push method. The sediment in previous borings mostly consisted of clays and loose sands. This hammer drill was used to force a bore hole by compressing and rearranging surrounding sediment, resulting in no drill cuttings recovered for analyzation. DETAILS: Sand around screen, bentonite around riser NOTES: stick up riser cut to 1ft to provide clearance for other rigs on site. WELL DEPTH: 30 FT CONSTRUCTION START: 1425 DRILLING END: 1500 CONSTRUCTION END: 1541		Depth-to-first-water-bearing-zone: N/A Depth-to-bedrock: N/A Depth-to-saturation: N/A Borehole Diameter: 2” **Well Construction:** **Riser Type:** SOLID 40-PVC 1” DIAMETER From: 25 feet bgs To: 5 feet ags Feet: 30 feet **Screen Type:** 20-SLOT SLOTTED SCREEN From: 30 feet bgs To: 25 feet bgs Feet: 5 feet **Sand Pack Type:** FILPRO WELL-GRADED, MED From: 30 ft To: 22 ft bgs Bags: 1/4 **Bentonite Type:** GRANULAR CLAY From: 22 feet bgs To: 0 feet bgs Bags: 1

WELL CONSTRUCTION LOG

Project #: 220192	Project Name: 27-09 40TH AVENUE	Driller: E-PHASE 2
Boring #: EMP-1B	Date: 10/26/2022	Page 1 of 1
Method: GEOPROBE – HAMMER DRILL	Geologist: Y. SPENCER	Boring Location: LONG ISLAND CITY, QUEENS, NY

Depth (ft)	PID (ppm)	Recovery (ft)	Blow Count	Sample I.D.	Description	USCS	Remarks
	CAMP	N/A	N/A	N/A	The method of drilling boring hole for well was the direct push method. The sediment in previous borings mostly consisted of clays and loose sands. This hammer drill was used to force a bore hole by compressing and rearranging surrounding sediment, resulting in no drill cuttings recovered for analyzation. DETAILS: Sand around screen, bentonite, sand, bentonite seal NOTES: stick up riser cut to 1ft to provide clearance for other rigs on site. WELL DEPTH: 30 FT CONSTRUCTION START: 1312 DRILLING END: 1330 CONSTRUCTION END: 1415		Depth-to-first-water-bearing-zone: N/A Depth-to-bedrock: N/A Depth-to-saturation: N/A Borehole Diameter: 2” **Well Construction:** **Riser Type:** SOLID 40-PVC, 1” DIAMETER From: 25 feet bgs To: 5 feet ags Feet: 30 feet **Screen Type:** 20-SLOT SLOTTED SCREEN From: 30 feet bgs To: 25 feet bgs Feet: 5 feet **Sand Pack Type:** FILPRO WELL-GRADED, MED From: 30 ft & 23 ft bgs To: 25 ft bgs & 3 ft bgs Bags: 3/4 **Bentonite Type:** GRANULAR CLAY From: 25 ft & 3 ft bgs To: 23 ft & 0 ft bgs Bags: 1/4

WELL CONSTRUCTION LOG

Project #: 220192	Project Name: 27-09 40TH AVENUE	Driller: E-PHASE 2
Boring #: EMP-1C	Date: 10/26/2022	Page 1 of 1
Method: GEOPROBE – HAMMER DRILL	Geologist: Y. SPENCER	Boring Location: LONG ISLAND CITY, QUEENS, NY

Depth (ft)	PID (ppm)	Recovery (ft)	Blow Count	Sample I.D.	Description	USCS	Remarks
	CAMP	N/A	N/A	N/A	The method of drilling boring hole for well was the direct push method. The sediment in previous borings mostly consisted of clays and loose sands. This hammer drill was used to force a bore hole by compressing and rearranging surrounding sediment, resulting in no drill cuttings recovered for analyzation. DETAILS: Sand around screen, bentonite, sand and bentonite seal NOTES: stick up riser cut to 1ft to provide clearance for other rigs on site. WELL DEPTH: 30 FT CONSTRUCTION START: 1216 CONSTRUCTION END: 1250		Depth-to-first-water-bearing-zone: N/A
							Depth-to-bedrock: N/A
							Depth-to-saturation: N/A
							Borehole Diameter: 2”
							Well Construction:
							Riser Type: SOLID 40-PVC 1” DIAMETER
							From: 25 feet bgs
							To: 5 feet ags
							Feet: 30 feet
							Screen Type: 20-SLOT SLOTTED SCREEN
							From: 30 feet bgs
							To: 25 feet bgs
							Feet: 5 feet
							Sand Pack Type: FILPRO WELL-GRADED, MED
							From: 30 ft & 23 ft bgs
							To: 25 ft & 2 ft bgs
							Bags: 1 ½
							Bentonite Type: GRANULAR CLAY
							From: 25 ft & 2 ft bgs
							To: 23 ft & 0 ft bgs
							Bags: 1/4

WELL CONSTRUCTION LOG

Project #: 220192	Project Name: 27-09 40TH AVENUE	Driller: E-PHASE 2
Boring #: SVE-2	Date: 10/31/2022	Page 1 of 1
Method: GEOPROBE – Air Hollow Auger	Geologist: Y. SPENCER	Boring Location: West/Southwest

Depth (ft)	PID (ppm)	Recovery (ft)	Blow Counts	Sample I.D.	Description	USCS	Remarks
	6.1	N/A	N/A	N/A	0'-10': topsoil/fill material, dark brown, loose 10'-20': silty sand, brown w/ 10% gravel, sub-rounded 20'-30': sandy clay with sand same as above WELL DEPTH: 30 FT CONSTRUCTION START: 0945 CONSTRUCTION END: 1147 FITTED WITH 5' YELLOW METAL CASING		Depth-to-first-water-bearing-zone: N/A
5							Depth-to-bedrock: N/A
	0.7						Depth-to-saturation: N/A
10							Borehole Diameter: 4"
	0.4						**Well Construction:**
							Riser Type: 2" DIAM. SOLID 40-PVC
15							From: 25 feet bgs
							To: 2.5 feet ags
	0.2						Feet: 27.5 feet
							Screen Type: 2" DIAM. 20-SLOT SLOTTED SCREEN
20							From: 30 feet bgs
							To: 25 feet bgs
	0.2						Feet: 5 feet
							Sand Pack Type: FILPRO WELL-GRADED, MED
25							From: 30 ft bgs
							To: 23 ft bgs
	0.4						Bags: 3
							Bentonite Type: GRANULAR CLAY
30							From: 23 feet bgs
							To: 0 feet bgs
							Bags: 6
							Concrete Type: HI-STRENGTH
							From: 1' bgs
							To: 0' bgs
							Bags: 4/5

WELL CONSTRUCTION LOG

Project #: 220192	Project Name: 27-09 40TH AVENUE	Driller: E-PHASE 2
Boring #: EMP-2A	Date: 10/25/2022	Page 1 of 1
Method: GEOPROBE – HAMMER DRILL	Geologist: Y. SPENCER	Boring Location: LONG ISLAND CITY, QUEENS, NY

Depth (ft)	PID (ppm)	Recovery (ft)	Blow Counts	Sample I.D.	Description	USCS	Remarks
	CAMP	N/A	N/A	N/A	The method of drilling boring hole for well was the direct push method. The sediment in previous borings mostly consisted of clays and loose sands. This hammer drill was used to force a bore hole by compressing and rearranging surrounding sediment, resulting in no drill cuttings recovered for analyzation. DETAILS: Sand around the screen, bentonite, sand, bentonite seal WELL DEPTH: 30 FT CONSTRUCTION START: 1416 CONSTRUCTION END: 1554		Depth-to-first-water-bearing-zone: Depth-to-bedrock: Depth-to-saturation: Borehole Diameter: 2” **Well Construction:** **Riser Type:** SOLID 40-PVC From: 25 feet bgs To: 5 feet ags Feet: 30 feet **Screen Type:** 20-SLOT SLOTTED SCREEN From: 30 feet bgs To: 25 feet bgs Feet: 5 feet **Sand Pack Type:** WELL-GRADED, MED From: 30 ft & 23 ft bgs To: 25 ft & 1 ft bgs Bags: 1 **Bentonite Type:** GRANULAR CLAY From: 25 feet bgs To: 23 feet bgs Bags: 1/4 **Grout Type:** BENTONITE From: 1 ft bgs To: 0 ft bgs Bags: **Concrete Type:** From: To: Bags:

WELL CONSTRUCTION LOG

Project #: 220192	Project Name: 27-09 40TH AVENUE	Driller: E-PHASE 2
Boring #: EMP-2B	Date: 10/26/2022	Page 1 of 1
Method: GEOPROBE – HAMMER DRILL	Geologist: Y. SPENCER	Boring Location: LONG ISLAND CITY, QUEENS, NY

Depth (ft)	PID (ppm)	Recovery (ft)	Blow Counts	Sample I.D.	Description	USCS	Remarks
	CAMP	N/A	N/A	N/A	The method of drilling boring hole for well was the direct push method. The sediment in previous borings mostly consisted of clays and loose sands. This hammer drill was used to force a bore hole by compressing and rearranging surrounding sediment, resulting in no drill cuttings recovered for analyzation. DETAILS: Sand around the screen, bentonite, sand, bentonite seal WELL DEPTH: 30 FT CONSTRUCTION START: 0715 CONSTRUCTION END: 0831		Depth-to-first-water-bearing-zone: N/A Depth-to-bedrock: N/A Depth-to-saturation: N/A Borehole Diameter: 2” **Well Construction:** **Riser Type:** SOLID 40-PVC From: 25 feet bgs To: 5 feet ags Feet: 30 feet **Screen Type:** 20-SLOT SLOTTED SCREEN From: 30 feet bgs To: 25 feet bgs Feet: 5 feet **Sand Pack Type:** FILPRO WELL-GRADED, MED From: 30 ft & 21 ft bgs To: 23 ft bgs & 1 ft bgs Bags: 1 **Bentonite Type:** GRANULAR CLAY From: 23 feet bgs To: 21 feet bgs Bags: 1/4 **Grout Type:** BENTONITE From: 1 ft bgs To: 0 ft bgs Bags:

WELL CONSTRUCTION LOG

Project #: 220192	Project Name: 27-09 40TH AVENUE	Driller: E-PHASE 2
Boring #: EMP-2C	Date: 10/26/2022	Page 1 of 1
Method: GEOPROBE – HAMMER DRILL	Geologist: Y. SPENCER	Boring Location: LONG ISLAND CITY, QUEENS, NY

Depth (ft)	PID (ppm)	Recovery (ft)	Blow Counts	Sample I.D.	Description	USCS	Remarks
	CAMP	N/A	N/A	N/A	The method of drilling boring hole for well was the direct push method. The sediment in previous borings mostly consisted of clays and loose sands. This hammer drill was used to force a bore hole by compressing and rearranging surrounding sediment, resulting in no drill cuttings recovered for analyzation. DETAILS: Sand around the screen, bentonite, sand, bentonite seal WELL DEPTH: 30 FT CONSTRUCTION START: 0852 CONSTRUCTION END: 0926		Depth-to-first-water-bearing-zone: N/A Depth-to-bedrock: N/A Depth-to-saturation: N/A Borehole Diameter: 2” **Well Construction:** **Riser Type:** SOLID 40-PVC From: 25 feet bgs To: 5 feet ags Feet: 30 feet **Screen Type:** 20-SLOT SLOTTED SCREEN From: 30 feet bgs To: 25 feet bgs Feet: 5 feet **Sand Pack Type:** FILPRO WELL-GRADED, MED From: 30 ft & 20 ft bgs To: 23 ft & 3 ft bgs Bags: 1 **Bentonite Type:** GRANULAR CLAY From: 23 feet bgs To: 20 feet bgs Bags: 1/4 **Grout Type:** BENTONITE From: 3 ft bgs To: 0 ft bgs Bags:

APPENDIX 3
SVE Pilot Test ROI Calculation

AppeýdiÈ /

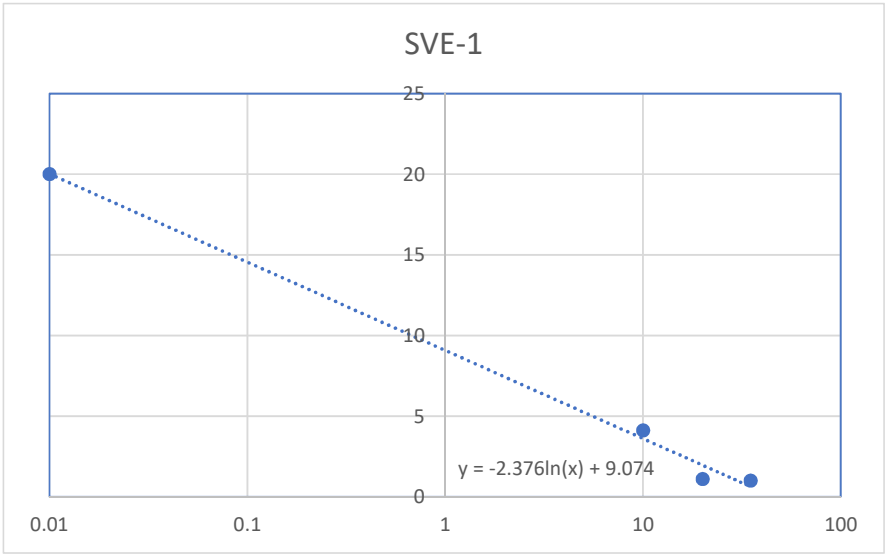
SVE Pilot Test Results - 27-09 40th Avenue, Long Island City, NY

November 3 and 8, 2022

SVE-1				
Distance (ft)	0.01	10	20	35
Vacuum (in H2O)	20	4.1	1.1	1

Determine y intercept @ x = 0.1 in w.g.
0.1=-2.376ln(x) = 8.974
2.376ln(x)=8.974
ln(x)=3.77
x=e^3.819
x=43.38

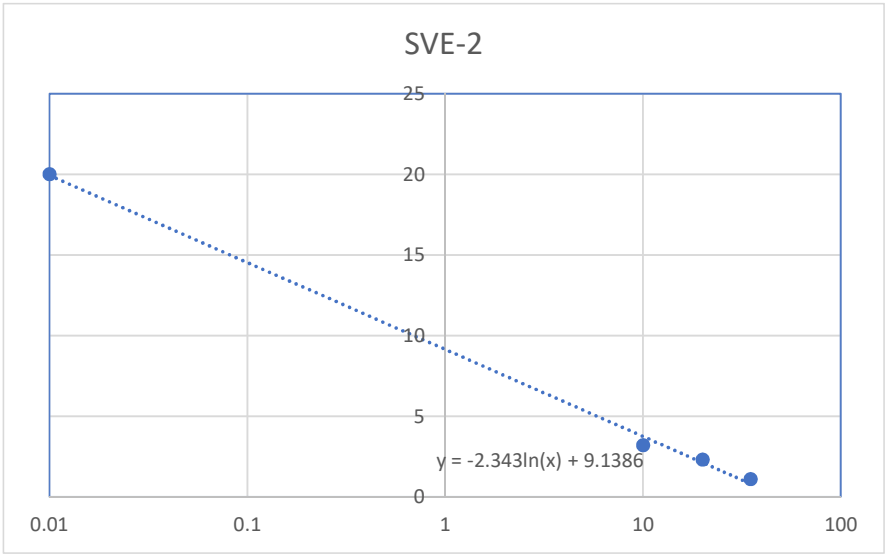
Effective Radius = 43 feet



SVE-2				
Distance (ft)	0.01	10	20	35
Vacuum (in H2O)	20	3.2	2.3	1.1

Determine y intercept @ x = 0.1 in w.g.
0.1=-2.343ln(x) + 9.1386
2.343ln(x) = 9.0386
ln(x)=3.857
x=e^3.857
x=47.32

Effective Radius = 47 feet



APPENDIX E

GROUNDWATER DATA, DUSR & SAMPLING LOGS

Table 1
Groundwater Quality Data - Pre and Post-Injection
27-09 40th Ave Long Island City, NY

	Sample/Well ID		NYSDEC TOGS Standards and Guidance Values	MW-101		MW-102		MW-103		MW-104	
	Sampling Date			11/1/2022		11/1/2022		11/1/2022		11/1/2022 0:00	
	Client Matrix			Water		Water		Water		Water	
	Compound	CAS Number	GA	Result	Q	Result	Q	Result	Q	Result	Q
Pre-Injection Sampling Event	VOA, 8260 LOW MASTER		ug/L	ug/L		ug/L		ug/L		ug/L	
	Dilution Factor			1		1		1		10	
	Tetrachloroethylene	127-18-4	5	**48**		**55.5**		**32.6**		**320**	D
	Trichloroethylene	79-01-6	5	0.35	J	0.44	J	0.65		1.11	
	cis-1,2-Dichloroethylene	156-59-2	5	0.2	U	0.2	U	**0.470**	J	0.2	U
	Vinyl Chloride	75-01-4	2	~		~		~		~	
	Sample/Well ID		NYSDEC TOGS Standards and Guidance Values	MW-101		MW-102		MW-103		MW-104	
	Sampling Date			Not Sampled		Not Sampled		12/1/2022		Not Sampled	
	Client Matrix							Water		Water	
	Compound	CAS Number	GA	Result	Q	Result	Q	Result	Q	Result	Q
Post-Injection Sampling Event	VOA, 8260 LOW MASTER		ug/L					ug/L			
	Dilution Factor			~		~		1		~	
	Tetrachloroethylene	127-18-4	5	~		~		**30**		~	
	Trichloroethylene	79-01-6	5	~		~		**1.5**	J	~	
	cis-1,2-Dichloroethylene	156-59-2	5	~		~		**1.2**		~	
	Vinyl Chloride	75-01-4	2	~		~		0.2	U	~	
	Sample/Well ID		NYSDEC TOGS Standards and Guidance Values	MW-101		MW-102		MW-103		MW-104	
	Sampling Date			Not Sampled		Not Sampled		Not Sampled		Not Sampled	
	Client Matrix										
	Compound	CAS Number	GA	Result	Q	Result	Q	Result	Q	Result	Q
Post-Injection Sampling Event	VOA, 8260 LOW MASTER		ug/L								
	Dilution Factor			~		~		~		~	
	Tetrachloroethylene	127-18-4	5	~		~		~		~	
	Trichloroethylene	79-01-6	5	~		~		~		~	
	cis-1,2-Dichloroethylene	156-59-2	5	~		~		~		~	
	Vinyl Chloride	75-01-4	2	~		~		~		~	

Table 1
Groundwater Quality Data - Pre and Post-Injection
27-09 40th Ave Long Island City, NY

	Sample/Well ID		NYSDEC TOGS Standards and Guidance Values	MW-105		MW-106		MW-107		MW-108	
	Sampling Date			11/1/2022		11/1/2022		11/1/2022		11/1/2022	
	Client Matrix			Water		Water		Water		Water	
	Compound	CAS Number	GA	Result	Q	Result	Q	Result	Q	Result	Q
Pre-Injection Sampling Event	VOA, 8260 LOW MASTER		ug/L	ug/L		ug/L		ug/L		ug/L	
	Dilution Factor			1		10		10		10	
	Tetrachloroethylene	127-18-4	5	**69.3**		**336**	D	**217**	D	**1,460**	D
	Trichloroethylene	79-01-6	5	0.97		1.82		1.59		3.60	
	cis-1,2-Dichloroethylene	156-59-2	5	0.600		0.53		0.210	J	0.220	J
	Vinyl Chloride	75-01-4	2	~		~		~		~	

	Sample/Well ID		NYSDEC TOGS Standards and Guidance Values	MW-105		MW-106		MW-107		MW-108	
	Sampling Date			Not Sampled (Dry)		12/1/2022		Not Sampled (Dry)		12/1/2022	
	Client Matrix			Water		Water		Water		Water	
	Compound	CAS Number	GA	Result	Q	Result	Q	Result	Q	Result	Q
Post-Injection Sampling Event	VOA, 8260 LOW MASTER		ug/L			ug/L				ug/L	
	Dilution Factor			~		1		~		1	
	Tetrachloroethylene	127-18-4	5	~		**130**	D	~		**1,600**	D
	Trichloroethylene	79-01-6	5	~		**2.2**	J	~		**10**	
	cis-1,2-Dichloroethylene	156-59-2	5	~		0.43	J	~		1	
	Vinyl Chloride	75-01-4	2	~		0.2	U	~		0.2	U

	Sample/Well ID		NYSDEC TOGS Standards and Guidance Values	MW-105		MW-106		MW-107		MW-108	
	Sampling Date			2/14/2023		2/14/2023		2/14/2023		2/14/2023	
	Client Matrix			Water		Water		Water		Water	
	Compound	CAS Number	GA	Result	Q	Result	Q	Result	Q	Result	Q
Post-Injection Sampling Event	VOA, 8260 LOW MASTER		ug/L	ug/L		ug/L		ug/L		ug/L	
	Dilution Factor			50		25		50		1	
	Tetrachloroethylene	127-18-4	5	**68**		**66**		**110**		**1**	
	Trichloroethylene	79-01-6	5	**2.2**		**1.4**		**1.6**		0.2	U
	cis-1,2-Dichloroethylene	156-59-2	5	1.4		0.41	J	0.35	J	0.2	U
	Vinyl Chloride	75-01-4	2	0.2	U	0.2	U	0.2	U	0.2	U

Table 1
Groundwater Quality Data - Pre and Post-Injection
27-09 40th Ave Long Island City, NY

	Sample/Well ID		NYSDEC TOGS Standards and Guidance Values	MW-109		MW-110					
	Sampling Date			11/1/2022		11/1/2022					
	Client Matrix			Water		Water					
	Compound	CAS Number	GA	Result	Q	Result	Q				
Pre-Injection Sampling Event	VOA, 8260 LOW MASTER		ug/L	ug/L		ug/L					
	Dilution Factor			10		10					
	Tetrachloroethylene	127-18-4	5	**511**	D	**300**	D				
	Trichloroethylene	79-01-6	5	2.99		2.82					
	cis-1,2-Dichloroethylene	156-59-2	5	0.2	U	2.32					
	Vinyl Chloride	75-01-4	2	~		~					

	Sample/Well ID		NYSDEC TOGS Standards and Guidance Values	MW-109		MW-110		IW-1		IW-2	
	Sampling Date			12/1/2022		12/1/2022		12/1/2022		12/1/2022	
	Client Matrix			Water		Water		Water		Water	
	Compound	CAS Number	GA	Result	Q	Result	Q	Result	Q	Result	Q
Post-Injection Sampling Event	VOA, 8260 LOW MASTER		ug/L	ug/L		ug/L		ug/L		ug/L	
	Dilution Factor			1		1		1		2	
	Tetrachloroethylene	127-18-4	5	**72**		**360**	D	**3.4**		0.4	U
	Trichloroethylene	79-01-6	5	**5.2**		**3.8**	J	0.2	U	0.4	U
	cis-1,2-Dichloroethylene	156-59-2	5	0.2	U	**3.5**		0.2	U	0.4	U
	Vinyl Chloride	75-01-4	2	0.2	U	0.2	U	0.2	U	0.4	U

	Sample/Well ID		NYSDEC TOGS Standards and Guidance Values	MW-109		MW-110		IW-1	
	Sampling Date			Not Sampled		Not Sampled		2/14/2023	
	Client Matrix							Water	
	Compound	CAS Number	GA	Result	Q	Result	Q	Result	Q
Post-Injection Sampling Event	VOA, 8260 LOW MASTER		ug/L					ug/L	
	Dilution Factor			~		~		1	
	Tetrachloroethylene	127-18-4	5	~		~		**19**	
	Trichloroethylene	79-01-6	5	~		~		**0.33**	J
	cis-1,2-Dichloroethylene	156-59-2	5	~		~		0.2	U
	Vinyl Chloride	75-01-4	2	~		~		0.2	U

APPENDIX E.1

Groundwater Data Analytical Report November 1, 2022

Technical Report

prepared for:

Laurel Environmental Geosciences, D.P.C.
53 W Hills Road, Suite 1
Huntington Station NY, 11746
Attention: Scott Yanuck

Report Date: 11/17/2022
Client Project ID: 27-09 40th Avenue, Long Island City 19-401
York Project (SDG) No.: 22K0116

Revision No. 1.0

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 11/17/2022
Client Project ID: 27-09 40th Avenue, Long Island City 19-401
York Project (SDG) No.: 22K0116

Laurel Environmental Geosciences, D.P.C.
53 W Hills Road, Suite 1
Huntington Station NY, 11746
Attention: Scott Yanuck

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on November 02, 2022 and listed below. The project was identified as your project: **27-09 40th Avenue, Long Island City 19-401**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
22K0116-01	MW-101	Water	11/01/2022	11/02/2022
22K0116-02	MW-102	Water	11/01/2022	11/02/2022
22K0116-03	MW-103	Water	11/01/2022	11/02/2022
22K0116-04	MW-104	Water	11/01/2022	11/02/2022
22K0116-05	MW-105	Water	11/01/2022	11/02/2022
22K0116-06	MW-106	Water	11/01/2022	11/02/2022
22K0116-07	MW-107	Water	11/01/2022	11/02/2022
22K0116-08	MW-108	Water	11/01/2022	11/02/2022
22K0116-09	MW-109	Water	11/01/2022	11/02/2022
22K0116-10	MW-110	Water	11/01/2022	11/02/2022
22K0116-11	DUP	Water	11/01/2022	11/02/2022
22K0116-12	Trip Blank	Water	11/01/2022	11/02/2022

General Notes for York Project (SDG) No.: 22K0116

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By:  **Date:** 11/17/2022

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: **MW-101** **York Sample ID:** **22K0116-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0116	27-09 40th Avenue, Long Island City 19-401	Water	November 1, 2022 1:03 pm	11/02/2022

VOA, 8260 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	JTG
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	JTG
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	JTG
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	JTG
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	JTG
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG

Sample Information

Client Sample ID: MW-101 **York Sample ID:** 22K0116-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0116	27-09 40th Avenue, Long Island City 19-401	Water	November 1, 2022 1:03 pm	11/02/2022

VOA, 8260 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
67-64-1	**Acetone**	**1.19**	ICVE, QL-02, J	ug/L	1.00	2.00	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
107-02-8	Acrolein	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
107-13-1	Acrylonitrile	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
67-66-3	**Chloroform**	**0.510**		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI

Sample Information

Client Sample ID: MW-101 **York Sample ID:** 22K0116-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0116	27-09 40th Avenue, Long Island City 19-401	Water	November 1, 2022 1:03 pm	11/02/2022

VOA, 8260 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	JTG
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	JTG
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	JTG
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	JTG
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP	JTG
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP	JTG
105-05-5	* p-Diethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34	JTG
622-96-8	* p-Ethyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34	JTG
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	JTG
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
127-18-4	**Tetrachloroethylene**	**48.0**		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA	JTG
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
79-01-6	**Trichloroethylene**	**0.350**	J	ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 01:34 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA	JTG

Sample Information

Client Sample ID: MW-101 **York Sample ID:** 22K0116-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0116	27-09 40th Avenue, Long Island City 19-401	Water	November 1, 2022 1:03 pm	11/02/2022

VOA, 8260 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-69-4	**Trichlorofluoromethane**	**0.250**	J	ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 01:34	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA		
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 01:34	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C	11/14/2022 06:04	11/15/2022 01:34	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*103 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*101 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*102 %*	*79-122*

Sample Information

Client Sample ID: MW-102 **York Sample ID:** 22K0116-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0116	27-09 40th Avenue, Long Island City 19-401	Water	November 1, 2022 1:22 pm	11/02/2022

VOA, 8260 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 02:01	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 02:01	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 02:01	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 02:01	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 02:01	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 02:01	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 02:01	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 02:01	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 02:01	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 02:01	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: MW-102 **York Sample ID:** 22K0116-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0116	27-09 40th Avenue, Long Island City 19-401	Water	November 1, 2022 1:22 pm	11/02/2022

VOA, 8260 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:01	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:01	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:01	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:01	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:01	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:01	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:01	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:01	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:01	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:01	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:01	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:01	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:01	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:01	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:01	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
107-02-8	Acrolein	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:01	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
107-13-1	Acrylonitrile	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:01	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:01	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:01	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:01	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:01	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:01	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:01	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI

Sample Information

Client Sample ID: MW-102 **York Sample ID:** 22K0116-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0116	27-09 40th Avenue, Long Island City 19-401	Water	November 1, 2022 1:22 pm	11/02/2022

VOA, 8260 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:01	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:01	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:01	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
67-66-3	**Chloroform**	**0.730**		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:01	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:01	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:01	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:01	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:01	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:01	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:01	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:01	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:01	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:01	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:01	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:01	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:01	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:01	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:01	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:01	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:01	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:01	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:01	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:01	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP

Sample Information

Client Sample ID: MW-102 **York Sample ID:** 22K0116-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0116	27-09 40th Avenue, Long Island City 19-401	Water	November 1, 2022 1:22 pm	11/02/2022

VOA, 8260 LOW MASTER **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
105-05-5	* p-Diethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:01	JTG
622-96-8	* p-Ethyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:01	JTG
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	11/15/2022 02:01	JTG
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	11/15/2022 02:01	JTG
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	11/15/2022 02:01	JTG
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	11/14/2022 06:04 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/15/2022 02:01	JTG
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	11/15/2022 02:01	JTG
127-18-4	**Tetrachloroethylene**	**55.5**		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA	11/15/2022 02:01	JTG
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	11/15/2022 02:01	JTG
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	11/15/2022 02:01	JTG
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	11/15/2022 02:01	JTG
79-01-6	**Trichloroethylene**	**0.440**	J	ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA	11/15/2022 02:01	JTG
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	11/15/2022 02:01	JTG
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	11/15/2022 02:01	JTG
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications:	11/14/2022 06:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP	11/15/2022 02:01	JTG

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*102 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*102 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*107 %*	*79-122*

Sample Information

Client Sample ID: MW-103 **York Sample ID:** 22K0116-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0116	27-09 40th Avenue, Long Island City 19-401	Water	November 1, 2022 11:57 am	11/02/2022

Sample Information

Client Sample ID: **MW-103** **York Sample ID:** **22K0116-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0116	27-09 40th Avenue, Long Island City 19-401	Water	November 1, 2022 11:57 am	11/02/2022

VOA, 8260 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:28	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:28	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:28	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:28	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
79-00-5	**1,1,2-Trichloroethane**	**0.390**	J	ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:28	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:28	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:28	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:28	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
96-18-4	**1,2,3-Trichloropropane**	**1.50**		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:28	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:28	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:28	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
96-12-8	**1,2-Dibromo-3-chloropropane**	**11.0**		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:28	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:28	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:28	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
107-06-2	**1,2-Dichloroethane**	**0.720**		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:28	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:28	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:28	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:28	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:28	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:28	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:28	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:28	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:28	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI

Sample Information

Client Sample ID: **MW-103** **York Sample ID:** **22K0116-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0116	27-09 40th Avenue, Long Island City 19-401	Water	November 1, 2022 11:57 am	11/02/2022

VOA, 8260 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	**4-Methyl-2-pentanone**	**0.520**		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 02:28	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA		
67-64-1	**Acetone**	**2.47**	ICVE, QL-02	ug/L	1.00	2.00	1	EPA 8260C	11/14/2022 06:04	11/15/2022 02:28	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA		
107-02-8	Acrolein	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 02:28	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
107-13-1	Acrylonitrile	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 02:28	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 02:28	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 02:28	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 02:28	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 02:28	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 02:28	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 02:28	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 02:28	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 02:28	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 02:28	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 02:28	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
74-87-3	**Chloromethane**	**0.800**		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 02:28	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA		
156-59-2	**cis-1,2-Dichloroethylene**	**0.470**	J	ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 02:28	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 02:28	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 02:28	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 02:28	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 02:28	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 02:28	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 02:28	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 02:28	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: **MW-103** **York Sample ID:** **22K0116-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0116	27-09 40th Avenue, Long Island City 19-401	Water	November 1, 2022 11:57 am	11/02/2022

VOA, 8260 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:28	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:28	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:28	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:28	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:28	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:28	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:28	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:28	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:28	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:28	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP
105-05-5	* p-Diethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:28	JTG
622-96-8	* p-Ethyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:28	JTG
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:28	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:28	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:28	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-65-0	**tert-Butyl alcohol (TBA)**	**1.75**		ug/L	0.500	1.00	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:28	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:28	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
127-18-4	**Tetrachloroethylene**	**32.6**		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:28	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:28	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:28	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:28	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
79-01-6	**Trichloroethylene**	**0.650**		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:28	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 02:28	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI

Sample Information

Client Sample ID: MW-103 **York Sample ID:** 22K0116-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0116	27-09 40th Avenue, Long Island City 19-401	Water	November 1, 2022 11:57 am	11/02/2022

VOA, 8260 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	11/15/2022 02:28	JTG
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications:	11/14/2022 06:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP	11/15/2022 02:28	JTG

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*101 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*102 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*107 %*	*79-122*

Sample Information

Client Sample ID: MW-104 **York Sample ID:** 22K0116-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0116	27-09 40th Avenue, Long Island City 19-401	Water	November 1, 2022 12:28 pm	11/02/2022

VOA, 8260 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	11/15/2022 03:48	JTG
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	11/15/2022 03:48	JTG
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	11/15/2022 03:48	JTG
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	11/15/2022 03:48	JTG
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	11/15/2022 03:48	JTG
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	11/15/2022 03:48	JTG
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	11/15/2022 03:48	JTG
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/15/2022 03:48	JTG
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/15/2022 03:48	JTG
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/15/2022 03:48	JTG
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	11/15/2022 03:48	JTG

Sample Information

Client Sample ID: **MW-104** **York Sample ID:** **22K0116-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0116	27-09 40th Avenue, Long Island City 19-401	Water	November 1, 2022 12:28 pm	11/02/2022

VOA, 8260 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
96-12-8	**1,2-Dibromo-3-chloropropane**	**7.08**		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 03:48	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA		
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 03:48	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 03:48	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 03:48	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 03:48	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 03:48	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 03:48	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 03:48	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 03:48	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C	11/14/2022 06:04	11/15/2022 03:48	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 03:48	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 03:48	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 03:48	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
67-64-1	**Acetone**	**1.21**	ICVE, QL-02, J	ug/L	1.00	2.00	1	EPA 8260C	11/14/2022 06:04	11/15/2022 03:48	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA		
107-02-8	Acrolein	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 03:48	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
107-13-1	Acrylonitrile	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 03:48	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 03:48	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 03:48	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 03:48	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 03:48	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 03:48	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 03:48	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 03:48	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		

Sample Information

Client Sample ID: MW-104 **York Sample ID:** 22K0116-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0116	27-09 40th Avenue, Long Island City 19-401	Water	November 1, 2022 12:28 pm	11/02/2022

VOA, 8260 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
67-66-3	**Chloroform**	**0.670**		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:48	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:48	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:48	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:48	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:48	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:48	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:48	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP
105-05-5	* p-Diethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:48	JTG

Sample Information

Client Sample ID: MW-104 **York Sample ID:** 22K0116-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0116	27-09 40th Avenue, Long Island City 19-401	Water	November 1, 2022 12:28 pm	11/02/2022

VOA, 8260 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
622-96-8	* p-Ethyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:48	JTG
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:48	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
127-18-4	**Tetrachloroethylene**	**320**		ug/L	2.00	5.00	10	EPA 8260C Certifications:	11/15/2022 06:52	11/15/2022 19:53	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
79-01-6	**Trichloroethylene**	**1.11**		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*102 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*100 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*108 %*	*79-122*

Sample Information

Client Sample ID: MW-105 **York Sample ID:** 22K0116-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0116	27-09 40th Avenue, Long Island City 19-401	Water	November 1, 2022 12:07 pm	11/02/2022

VOA, 8260 LOW MASTER

Log-in Notes:

Sample Notes:

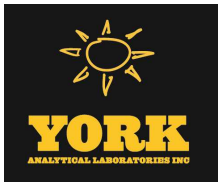
Sample Information

Client Sample ID: MW-105 **York Sample ID:** 22K0116-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0116	27-09 40th Avenue, Long Island City 19-401	Water	November 1, 2022 12:07 pm	11/02/2022

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:25	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:25	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:25	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:25	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:25	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:25	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:25	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:25	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:25	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:25	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:25	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:25	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:25	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:25	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:25	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:25	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:25	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:25	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:25	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:25	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:25	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:25	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:25	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:25	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI



Sample Information

Client Sample ID: **MW-105** **York Sample ID:** **22K0116-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0116	27-09 40th Avenue, Long Island City 19-401	Water	November 1, 2022 12:07 pm	11/02/2022

VOA, 8260 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	**Acetone**	**1.89**	ICVE, QL-02, J	ug/L	1.00	2.00	1	EPA 8260C	11/15/2022 06:24	11/15/2022 18:25	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA		
107-02-8	Acrolein	ND		ug/L	0.200	0.500	1	EPA 8260C	11/15/2022 06:24	11/15/2022 18:25	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
107-13-1	Acrylonitrile	ND		ug/L	0.200	0.500	1	EPA 8260C	11/15/2022 06:24	11/15/2022 18:25	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C	11/15/2022 06:24	11/15/2022 18:25	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	11/15/2022 06:24	11/15/2022 18:25	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	11/15/2022 06:24	11/15/2022 18:25	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C	11/15/2022 06:24	11/15/2022 18:25	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C	11/15/2022 06:24	11/15/2022 18:25	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C	11/15/2022 06:24	11/15/2022 18:25	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C	11/15/2022 06:24	11/15/2022 18:25	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	11/15/2022 06:24	11/15/2022 18:25	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	11/15/2022 06:24	11/15/2022 18:25	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
67-66-3	**Chloroform**	**0.490**	J	ug/L	0.200	0.500	1	EPA 8260C	11/15/2022 06:24	11/15/2022 18:25	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA		
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	11/15/2022 06:24	11/15/2022 18:25	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
156-59-2	**cis-1,2-Dichloroethylene**	**0.600**		ug/L	0.200	0.500	1	EPA 8260C	11/15/2022 06:24	11/15/2022 18:25	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C	11/15/2022 06:24	11/15/2022 18:25	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C	11/15/2022 06:24	11/15/2022 18:25	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	11/15/2022 06:24	11/15/2022 18:25	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C	11/15/2022 06:24	11/15/2022 18:25	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	11/15/2022 06:24	11/15/2022 18:25	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C	11/15/2022 06:24	11/15/2022 18:25	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C	11/15/2022 06:24	11/15/2022 18:25	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	11/15/2022 06:24	11/15/2022 18:25	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		

Sample Information

Client Sample ID: **MW-105** **York Sample ID:** **22K0116-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0116	27-09 40th Avenue, Long Island City 19-401	Water	November 1, 2022 12:07 pm	11/02/2022

VOA, 8260 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:25 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	JTG
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:25 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:25 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	JTG
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:25 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:25 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	JTG
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:25 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:25 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:25 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP	JTG
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:25 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP	JTG
105-05-5	* p-Diethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:25	JTG
622-96-8	* p-Ethyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:25	JTG
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:25 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:25 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:25 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:25 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	JTG
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:25 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
127-18-4	**Tetrachloroethylene**	**69.3**		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:25 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA	JTG
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:25 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:25 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:25 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
79-01-6	**Trichloroethylene**	**0.970**		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:25 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA	JTG
75-69-4	**Trichlorofluoromethane**	**0.410**	CCVE, QL-02, J	ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:25 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA	JTG
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:25 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG

Sample Information

Client Sample ID: MW-105 **York Sample ID:** 22K0116-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0116	27-09 40th Avenue, Long Island City 19-401	Water	November 1, 2022 12:07 pm	11/02/2022

VOA, 8260 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications:	11/15/2022 06:24 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP	11/15/2022 18:25	JTG

	Surrogate Recoveries	Result		Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*141 %*	S-03	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*96.0 %*		*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*112 %*		*79-122*

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**2.92**	B	mg/L	0.0556	1	EPA 6010D Certifications:	11/09/2022 10:36 CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	11/09/2022 16:30	AJL
7440-39-3	**Barium**	**0.117**		mg/L	0.0278	1	EPA 6010D Certifications:	11/09/2022 10:36 CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	11/09/2022 16:30	AJL
7440-70-2	**Calcium**	**167**		mg/L	0.0556	1	EPA 6010D Certifications:	11/09/2022 10:36 CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	11/09/2022 16:30	AJL
7440-47-3	**Chromium**	**0.0162**		mg/L	0.00556	1	EPA 6010D Certifications:	11/09/2022 10:36 CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	11/09/2022 16:30	AJL
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D Certifications:	11/09/2022 10:36 CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	11/09/2022 16:30	AJL
7440-50-8	**Copper**	**0.0269**		mg/L	0.0222	1	EPA 6010D Certifications:	11/09/2022 10:36 CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	11/09/2022 16:30	AJL
7439-89-6	**Iron**	**3.56**		mg/L	0.278	1	EPA 6010D Certifications:	11/09/2022 10:36 CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	11/09/2022 16:30	AJL
7439-92-1	**Lead**	**0.0217**		mg/L	0.00556	1	EPA 6010D Certifications:	11/09/2022 10:36 CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	11/09/2022 16:30	AJL
7439-95-4	**Magnesium**	**73.7**		mg/L	0.0556	1	EPA 6010D Certifications:	11/09/2022 10:36 CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	11/09/2022 16:30	AJL
7439-96-5	**Manganese**	**0.535**		mg/L	0.00556	1	EPA 6010D Certifications:	11/09/2022 10:36 CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	11/09/2022 16:30	AJL
7440-02-0	**Nickel**	**0.0126**		mg/L	0.0111	1	EPA 6010D Certifications:	11/09/2022 10:36 CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	11/09/2022 16:30	AJL
7440-09-7	**Potassium**	**5.94**		mg/L	0.0556	1	EPA 6010D Certifications:	11/09/2022 10:36 CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	11/09/2022 16:30	AJL
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D Certifications:	11/09/2022 10:36 CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	11/09/2022 16:30	AJL
7440-23-5	**Sodium**	**63.0**		mg/L	0.556	1	EPA 6010D Certifications:	11/09/2022 10:36 CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	11/09/2022 16:30	AJL
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D Certifications:	11/09/2022 10:36 CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	11/09/2022 16:30	AJL

Sample Information

Client Sample ID: **MW-105** **York Sample ID:** **22K0116-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0116	27-09 40th Avenue, Long Island City 19-401	Water	November 1, 2022 12:07 pm	11/02/2022

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-66-6	**Zinc**	**0.0823**		mg/L	0.0278	1	EPA 6010D	11/09/2022 10:36	11/09/2022 16:30	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Metals, Target Analyte, ICP Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.0556	1	EPA 6010D	11/09/2022 10:48	11/09/2022 16:59	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-39-3	**Barium**	**0.0859**		mg/L	0.0278	1	EPA 6010D	11/09/2022 10:48	11/09/2022 16:59	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-70-2	**Calcium**	**131**		mg/L	0.0556	1	EPA 6010D	11/09/2022 10:48	11/09/2022 16:59	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	11/09/2022 10:48	11/09/2022 16:59	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D	11/09/2022 10:48	11/09/2022 16:59	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	11/09/2022 10:48	11/09/2022 16:59	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 6010D	11/09/2022 10:48	11/09/2022 16:59	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D	11/09/2022 10:48	11/09/2022 16:59	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7439-95-4	**Magnesium**	**75.4**		mg/L	0.0556	1	EPA 6010D	11/09/2022 10:48	11/09/2022 16:59	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7439-96-5	**Manganese**	**0.126**		mg/L	0.00556	1	EPA 6010D	11/09/2022 10:48	11/09/2022 16:59	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D	11/09/2022 10:48	11/09/2022 16:59	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-09-7	**Potassium**	**6.10**		mg/L	0.0556	1	EPA 6010D	11/09/2022 10:48	11/09/2022 16:59	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	11/09/2022 10:48	11/09/2022 16:59	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-23-5	**Sodium**	**89.8**		mg/L	0.556	1	EPA 6010D	11/09/2022 10:48	11/09/2022 16:59	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D	11/09/2022 10:48	11/09/2022 16:59	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-66-6	**Zinc**	**0.0307**		mg/L	0.0278	1	EPA 6010D	11/09/2022 10:48	11/09/2022 16:59	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Metals, Target Analyte, ICPMS

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: MW-105 **York Sample ID:** 22K0116-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0116	27-09 40th Avenue, Long Island City 19-401	Water	November 1, 2022 12:07 pm	11/02/2022

Metals, Target Analyte, ICPMS

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	1.11	1	EPA 6020B	11/08/2022 09:35	11/14/2022 20:39	KT
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-38-2	**Arsenic**	**1.18**		ug/L	1.11	1	EPA 6020B	11/08/2022 09:35	11/14/2022 20:39	KT
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B	11/08/2022 09:35	11/14/2022 20:39	KT
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B	11/08/2022 09:35	11/14/2022 20:39	KT
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7782-49-2	**Selenium**	**4.93**	B	ug/L	1.11	1	EPA 6020B	11/08/2022 09:35	11/14/2022 20:39	KT
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	11/08/2022 09:35	11/14/2022 20:39	KT
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Metals, Target Analyte, ICPMS Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	1.11	1	EPA 6020B	11/08/2022 09:39	11/14/2022 18:09	BML
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-38-2	Arsenic	ND		ug/L	1.11	1	EPA 6020B	11/08/2022 09:39	11/14/2022 18:09	BML
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B	11/08/2022 09:39	11/14/2022 18:09	BML
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B	11/08/2022 09:39	11/14/2022 18:09	BML
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7782-49-2	**Selenium**	**2.35**		ug/L	1.11	1	EPA 6020B	11/08/2022 09:39	11/14/2022 18:09	BML
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	11/08/2022 09:39	11/14/2022 18:09	BML
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Mercury by 7470/7471

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA 7470	11/02/2022 17:30	11/02/2022 17:30	AA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Mercury, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.0016**		mg/L	0.0002	1	EPA 7470	11/07/2022 20:11	11/07/2022 20:11	AA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: **MW-106** **York Sample ID:** **22K0116-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0116	27-09 40th Avenue, Long Island City 19-401	Water	November 1, 2022 12:44 pm	11/02/2022

VOA, 8260 LOW MASTER **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-35-4	**1,1-Dichloroethylene**	**0.310**	J	ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI

Sample Information

Client Sample ID: **MW-106** **York Sample ID:** **22K0116-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0116	27-09 40th Avenue, Long Island City 19-401	Water	November 1, 2022 12:44 pm	11/02/2022

VOA, 8260 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
67-64-1	**Acetone**	**2.37**	ICVE, QL-02	ug/L	1.00	2.00	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
107-02-8	Acrolein	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
107-13-1	Acrylonitrile	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
67-66-3	**Chloroform**	**0.890**		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
156-59-2	**cis-1,2-Dichloroethylene**	**0.530**		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP

Sample Information

Client Sample ID: MW-106 **York Sample ID:** 22K0116-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0116	27-09 40th Avenue, Long Island City 19-401	Water	November 1, 2022 12:44 pm	11/02/2022

VOA, 8260 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP
105-05-5	* p-Diethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG
622-96-8	* p-Ethyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
127-18-4	**Tetrachloroethylene**	**336**		ug/L	2.00	5.00	10	EPA 8260C Certifications:	11/15/2022 06:52	11/15/2022 19:00	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
79-01-6	**Trichloroethylene**	**1.82**		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
75-69-4	**Trichlorofluoromethane**	**1.79**	CCVE, QL-02	ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:45	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA

Sample Information

Client Sample ID: MW-106 **York Sample ID:** 22K0116-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0116	27-09 40th Avenue, Long Island City 19-401	Water	November 1, 2022 12:44 pm	11/02/2022

VOA, 8260 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C	11/15/2022 06:24	11/15/2022 19:45	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C	11/15/2022 06:24	11/15/2022 19:45	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP		

	Surrogate Recoveries	Result		Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*139 %*	S-03	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*94.6 %*		*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*106 %*		*79-122*

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**106**	B	mg/L	0.0556	1	EPA 6010D	11/09/2022 10:36	11/09/2022 16:41	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-39-3	**Barium**	**0.966**		mg/L	0.0278	1	EPA 6010D	11/09/2022 10:36	11/09/2022 16:41	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-70-2	**Calcium**	**335**		mg/L	0.0556	1	EPA 6010D	11/09/2022 10:36	11/09/2022 16:41	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-47-3	**Chromium**	**0.275**		mg/L	0.00556	1	EPA 6010D	11/09/2022 10:36	11/09/2022 16:41	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-48-4	**Cobalt**	**0.0873**		mg/L	0.00444	1	EPA 6010D	11/09/2022 10:36	11/09/2022 16:41	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-50-8	**Copper**	**0.314**		mg/L	0.0222	1	EPA 6010D	11/09/2022 10:36	11/09/2022 16:41	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7439-89-6	**Iron**	**192**		mg/L	1.39	5	EPA 6010D	11/09/2022 10:36	11/10/2022 14:23	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7439-92-1	**Lead**	**0.152**		mg/L	0.00556	1	EPA 6010D	11/09/2022 10:36	11/09/2022 16:41	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7439-95-4	**Magnesium**	**172**		mg/L	0.0556	1	EPA 6010D	11/09/2022 10:36	11/09/2022 16:41	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7439-96-5	**Manganese**	**3.86**		mg/L	0.00556	1	EPA 6010D	11/09/2022 10:36	11/09/2022 16:41	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-02-0	**Nickel**	**0.193**		mg/L	0.0111	1	EPA 6010D	11/09/2022 10:36	11/09/2022 16:41	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-09-7	**Potassium**	**32.6**		mg/L	0.0556	1	EPA 6010D	11/09/2022 10:36	11/09/2022 16:41	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	11/09/2022 10:36	11/09/2022 16:41	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-23-5	**Sodium**	**36.4**		mg/L	0.556	1	EPA 6010D	11/09/2022 10:36	11/09/2022 16:41	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: **MW-106** **York Sample ID:** **22K0116-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0116	27-09 40th Avenue, Long Island City 19-401	Water	November 1, 2022 12:44 pm	11/02/2022

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-62-2	**Vanadium**	**0.271**		mg/L	0.0111	1	EPA 6010D	11/09/2022 10:36	11/09/2022 16:41	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-66-6	**Zinc**	**0.577**		mg/L	0.0278	1	EPA 6010D	11/09/2022 10:36	11/09/2022 16:41	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Metals, Target Analyte, ICP Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	Aluminum	ND		mg/L	0.0556	1	EPA 6010D	11/09/2022 10:48	11/09/2022 17:08	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-39-3	**Barium**	**0.0515**		mg/L	0.0278	1	EPA 6010D	11/09/2022 10:48	11/09/2022 17:08	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-70-2	**Calcium**	**129**		mg/L	0.0556	1	EPA 6010D	11/09/2022 10:48	11/09/2022 17:08	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	11/09/2022 10:48	11/09/2022 17:08	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D	11/09/2022 10:48	11/09/2022 17:08	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	11/09/2022 10:48	11/09/2022 17:08	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 6010D	11/09/2022 10:48	11/09/2022 17:08	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D	11/09/2022 10:48	11/09/2022 17:08	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7439-95-4	**Magnesium**	**78.2**		mg/L	0.0556	1	EPA 6010D	11/09/2022 10:48	11/09/2022 17:08	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7439-96-5	**Manganese**	**0.435**		mg/L	0.00556	1	EPA 6010D	11/09/2022 10:48	11/09/2022 17:08	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D	11/09/2022 10:48	11/09/2022 17:08	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-09-7	**Potassium**	**6.32**		mg/L	0.0556	1	EPA 6010D	11/09/2022 10:48	11/09/2022 17:08	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	11/09/2022 10:48	11/09/2022 17:08	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-23-5	**Sodium**	**68.6**		mg/L	0.556	1	EPA 6010D	11/09/2022 10:48	11/09/2022 17:08	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D	11/09/2022 10:48	11/09/2022 17:08	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D	11/09/2022 10:48	11/09/2022 17:08	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Metals, Target Analyte, ICPMS

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: MW-106 **York Sample ID:** 22K0116-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0116	27-09 40th Avenue, Long Island City 19-401	Water	November 1, 2022 12:44 pm	11/02/2022

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	1.11	1	EPA 6020B	11/08/2022 09:35	11/14/2022 20:42	KT
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-38-2	**Arsenic**	**19.1**		ug/L	1.11	1	EPA 6020B	11/08/2022 09:35	11/14/2022 20:42	KT
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-41-7	**Beryllium**	**1.32**		ug/L	0.333	1	EPA 6020B	11/08/2022 09:35	11/14/2022 20:42	KT
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-43-9	**Cadmium**	**1.35**		ug/L	0.556	1	EPA 6020B	11/08/2022 09:35	11/14/2022 20:42	KT
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7782-49-2	**Selenium**	**61.2**	B	ug/L	1.11	1	EPA 6020B	11/08/2022 09:35	11/14/2022 20:42	KT
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-28-0	**Thallium**	**1.97**		ug/L	1.11	1	EPA 6020B	11/08/2022 09:35	11/14/2022 20:42	KT
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Metals, Target Analyte, ICPMS Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	1.11	1	EPA 6020B	11/08/2022 09:39	11/14/2022 18:40	KT
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-38-2	**Arsenic**	**4.03**		ug/L	1.11	1	EPA 6020B	11/08/2022 09:39	11/14/2022 18:40	KT
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-41-7	**Beryllium**	**1.04**		ug/L	0.333	1	EPA 6020B	11/08/2022 09:39	11/14/2022 18:40	KT
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-43-9	**Cadmium**	**0.785**		ug/L	0.556	1	EPA 6020B	11/08/2022 09:39	11/14/2022 18:40	KT
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7782-49-2	**Selenium**	**30.4**		ug/L	1.11	1	EPA 6020B	11/08/2022 09:39	11/14/2022 18:40	KT
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	11/08/2022 09:39	11/14/2022 18:40	KT
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Mercury by 7470/7471

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA 7470	11/02/2022 17:30	11/02/2022 17:30	AA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Mercury, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.0012**		mg/L	0.0002	1	EPA 7470	11/07/2022 20:11	11/07/2022 20:11	AA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: **MW-107** **York Sample ID:** **22K0116-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0116	27-09 40th Avenue, Long Island City 19-401	Water	November 1, 2022 11:22 am	11/02/2022

VOA, 8260 LOW MASTER **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	JTG
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	JTG
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	JTG
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	JTG
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	JTG
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG

Sample Information

Client Sample ID: MW-107 **York Sample ID:** 22K0116-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0116	27-09 40th Avenue, Long Island City 19-401	Water	November 1, 2022 11:22 am	11/02/2022

VOA, 8260 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
67-64-1	**Acetone**	**1.71**	ICVE, QL-02, J	ug/L	1.00	2.00	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
107-02-8	Acrolein	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
107-13-1	Acrylonitrile	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
74-87-3	**Chloromethane**	**0.790**	CCVE	ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
156-59-2	**cis-1,2-Dichloroethylene**	**0.210**	J	ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP

Sample Information

Client Sample ID: MW-107 **York Sample ID:** 22K0116-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0116	27-09 40th Avenue, Long Island City 19-401	Water	November 1, 2022 11:22 am	11/02/2022

VOA, 8260 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP
105-05-5	* p-Diethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21	JTG
622-96-8	* p-Ethyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21	JTG
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
127-18-4	**Tetrachloroethylene**	**217**		ug/L	2.00	5.00	10	EPA 8260C Certifications:	11/15/2022 06:52	11/15/2022 19:27	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
79-01-6	**Trichloroethylene**	**1.59**		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 03:21	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI

Sample Information

Client Sample ID: MW-107 **York Sample ID:** 22K0116-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0116	27-09 40th Avenue, Long Island City 19-401	Water	November 1, 2022 11:22 am	11/02/2022

VOA, 8260 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 03:21	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C	11/14/2022 06:04	11/15/2022 03:21	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*99.4 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*101 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*112 %*	*79-122*

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**24.3**	B	mg/L	0.0556	1	EPA 6010D	11/09/2022 10:36	11/09/2022 16:45	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-39-3	**Barium**	**0.338**		mg/L	0.0278	1	EPA 6010D	11/09/2022 10:36	11/09/2022 16:45	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-70-2	**Calcium**	**263**		mg/L	0.0556	1	EPA 6010D	11/09/2022 10:36	11/09/2022 16:45	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-47-3	**Chromium**	**0.0553**		mg/L	0.00556	1	EPA 6010D	11/09/2022 10:36	11/09/2022 16:45	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-48-4	**Cobalt**	**0.0242**		mg/L	0.00444	1	EPA 6010D	11/09/2022 10:36	11/09/2022 16:45	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-50-8	**Copper**	**0.103**		mg/L	0.0222	1	EPA 6010D	11/09/2022 10:36	11/09/2022 16:45	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7439-89-6	**Iron**	**41.1**		mg/L	0.278	1	EPA 6010D	11/09/2022 10:36	11/09/2022 16:45	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7439-92-1	**Lead**	**0.0404**		mg/L	0.00556	1	EPA 6010D	11/09/2022 10:36	11/09/2022 16:45	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7439-95-4	**Magnesium**	**85.5**		mg/L	0.0556	1	EPA 6010D	11/09/2022 10:36	11/09/2022 16:45	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7439-96-5	**Manganese**	**0.920**		mg/L	0.00556	1	EPA 6010D	11/09/2022 10:36	11/09/2022 16:45	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-02-0	**Nickel**	**0.0421**		mg/L	0.0111	1	EPA 6010D	11/09/2022 10:36	11/09/2022 16:45	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-09-7	**Potassium**	**17.1**		mg/L	0.0556	1	EPA 6010D	11/09/2022 10:36	11/09/2022 16:45	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	11/09/2022 10:36	11/09/2022 16:45	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-23-5	**Sodium**	**149**		mg/L	0.556	1	EPA 6010D	11/09/2022 10:36	11/09/2022 16:45	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: MW-107 **York Sample ID:** 22K0116-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0116	27-09 40th Avenue, Long Island City 19-401	Water	November 1, 2022 11:22 am	11/02/2022

Metals, Target Analyte, ICP

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-62-2	**Vanadium**	**0.0557**		mg/L	0.0111	1	EPA 6010D	11/09/2022 10:36	11/09/2022 16:45	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-66-6	**Zinc**	**0.136**		mg/L	0.0278	1	EPA 6010D	11/09/2022 10:36	11/09/2022 16:45	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Metals, Target Analyte, ICP Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**0.104**		mg/L	0.0556	1	EPA 6010D	11/09/2022 10:48	11/09/2022 17:10	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-39-3	**Barium**	**0.0676**		mg/L	0.0278	1	EPA 6010D	11/09/2022 10:48	11/09/2022 17:10	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-70-2	**Calcium**	**196**		mg/L	0.0556	1	EPA 6010D	11/09/2022 10:48	11/09/2022 17:10	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-47-3	**Chromium**	**0.00653**		mg/L	0.00556	1	EPA 6010D	11/09/2022 10:48	11/09/2022 17:10	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-48-4	Cobalt	ND		mg/L	0.00444	1	EPA 6010D	11/09/2022 10:48	11/09/2022 17:10	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-50-8	Copper	ND		mg/L	0.0222	1	EPA 6010D	11/09/2022 10:48	11/09/2022 17:10	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7439-89-6	Iron	ND		mg/L	0.278	1	EPA 6010D	11/09/2022 10:48	11/09/2022 17:10	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7439-92-1	Lead	ND		mg/L	0.00556	1	EPA 6010D	11/09/2022 10:48	11/09/2022 17:10	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7439-95-4	**Magnesium**	**75.7**		mg/L	0.0556	1	EPA 6010D	11/09/2022 10:48	11/09/2022 17:10	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7439-96-5	Manganese	ND		mg/L	0.00556	1	EPA 6010D	11/09/2022 10:48	11/09/2022 17:10	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-02-0	Nickel	ND		mg/L	0.0111	1	EPA 6010D	11/09/2022 10:48	11/09/2022 17:10	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-09-7	**Potassium**	**12.0**		mg/L	0.0556	1	EPA 6010D	11/09/2022 10:48	11/09/2022 17:10	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-22-4	Silver	ND		mg/L	0.00556	1	EPA 6010D	11/09/2022 10:48	11/09/2022 17:10	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-23-5	**Sodium**	**207**		mg/L	0.556	1	EPA 6010D	11/09/2022 10:48	11/09/2022 17:10	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-62-2	Vanadium	ND		mg/L	0.0111	1	EPA 6010D	11/09/2022 10:48	11/09/2022 17:10	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-66-6	Zinc	ND		mg/L	0.0278	1	EPA 6010D	11/09/2022 10:48	11/09/2022 17:10	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Metals, Target Analyte, ICPMS

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: MW-107 **York Sample ID:** 22K0116-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0116	27-09 40th Avenue, Long Island City 19-401	Water	November 1, 2022 11:22 am	11/02/2022

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	1.11	1	EPA 6020B	11/08/2022 09:35	11/14/2022 20:52	KT
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-38-2	**Arsenic**	**6.79**		ug/L	1.11	1	EPA 6020B	11/08/2022 09:35	11/14/2022 20:52	KT
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-41-7	**Beryllium**	**0.594**		ug/L	0.333	1	EPA 6020B	11/08/2022 09:35	11/14/2022 20:52	KT
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B	11/08/2022 09:35	11/14/2022 20:52	KT
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7782-49-2	**Selenium**	**18.1**	B	ug/L	1.11	1	EPA 6020B	11/08/2022 09:35	11/14/2022 20:52	KT
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	11/08/2022 09:35	11/14/2022 20:52	KT
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Metals, Target Analyte, ICPMS Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-36-0	Antimony	ND		ug/L	1.11	1	EPA 6020B	11/08/2022 09:39	11/14/2022 18:43	KT
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-38-2	**Arsenic**	**2.18**		ug/L	1.11	1	EPA 6020B	11/08/2022 09:39	11/14/2022 18:43	KT
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-41-7	Beryllium	ND		ug/L	0.333	1	EPA 6020B	11/08/2022 09:39	11/14/2022 18:43	KT
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-43-9	Cadmium	ND		ug/L	0.556	1	EPA 6020B	11/08/2022 09:39	11/14/2022 18:43	KT
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7782-49-2	**Selenium**	**9.11**		ug/L	1.11	1	EPA 6020B	11/08/2022 09:39	11/14/2022 18:43	KT
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		
7440-28-0	Thallium	ND		ug/L	1.11	1	EPA 6020B	11/08/2022 09:39	11/14/2022 18:43	KT
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Mercury by 7470/7471

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.0002	1	EPA 7470	11/02/2022 17:30	11/02/2022 17:30	AA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Mercury, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-7470A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.0011**		mg/L	0.0002	1	EPA 7470	11/07/2022 20:11	11/07/2022 20:11	AA
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: **MW-108** **York Sample ID:** **22K0116-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0116	27-09 40th Avenue, Long Island City 19-401	Water	November 1, 2022 10:19 am	11/02/2022

VOA, 8260 LOW MASTER **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI

Sample Information

Client Sample ID: **MW-108** **York Sample ID:** **22K0116-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0116	27-09 40th Avenue, Long Island City 19-401	Water	November 1, 2022 10:19 am	11/02/2022

VOA, 8260 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
67-64-1	**Acetone**	**2.40**	ICVE, QL-02	ug/L	1.00	2.00	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
107-02-8	Acrolein	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
107-13-1	Acrylonitrile	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
67-66-3	**Chloroform**	**0.910**		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
156-59-2	**cis-1,2-Dichloroethylene**	**0.220**	J	ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP

Sample Information

Client Sample ID: MW-108 **York Sample ID:** 22K0116-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0116	27-09 40th Avenue, Long Island City 19-401	Water	November 1, 2022 10:19 am	11/02/2022

VOA, 8260 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	JTG
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	JTG
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	JTG
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP	JTG
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP	JTG
105-05-5	* p-Diethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20	JTG
622-96-8	* p-Ethyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20	JTG
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	JTG
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
127-18-4	**Tetrachloroethylene**	**1460**		ug/L	2.00	5.00	10	EPA 8260C Certifications:	11/15/2022 06:52	11/15/2022 18:25 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA	JTG
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
79-01-6	**Trichloroethylene**	**3.60**		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA	JTG
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 19:20 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG

Sample Information

Client Sample ID: MW-108 **York Sample ID:** 22K0116-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0116	27-09 40th Avenue, Long Island City 19-401	Water	November 1, 2022 10:19 am	11/02/2022

VOA, 8260 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	11/15/2022 19:20	JTG
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications:	11/15/2022 06:24 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP	11/15/2022 19:20	JTG

	Surrogate Recoveries	Result		Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*140 %*	S-03	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*97.5 %*		*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*106 %*		*79-122*

Sample Information

Client Sample ID: MW-109 **York Sample ID:** 22K0116-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0116	27-09 40th Avenue, Long Island City 19-401	Water	November 1, 2022 10:33 am	11/02/2022

VOA, 8260 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	11/15/2022 05:08	JTG
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	11/15/2022 05:08	JTG
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	11/15/2022 05:08	JTG
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	11/15/2022 05:08	JTG
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	11/15/2022 05:08	JTG
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	11/15/2022 05:08	JTG
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	11/15/2022 05:08	JTG
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/15/2022 05:08	JTG
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/15/2022 05:08	JTG
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/15/2022 05:08	JTG
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	11/15/2022 05:08	JTG

Sample Information

Client Sample ID: MW-109 **York Sample ID:** 22K0116-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0116	27-09 40th Avenue, Long Island City 19-401	Water	November 1, 2022 10:33 am	11/02/2022

VOA, 8260 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 05:08	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 05:08	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 05:08	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 05:08	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 05:08	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 05:08	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 05:08	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 05:08	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 05:08	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 05:08	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 05:08	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 05:08	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 05:08	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
67-64-1	**Acetone**	**2.93**	ICVE, QL-02	ug/L	1.00	2.00	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 05:08	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
107-02-8	Acrolein	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 05:08	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
107-13-1	Acrylonitrile	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 05:08	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 05:08	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 05:08	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 05:08	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 05:08	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 05:08	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 05:08	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 05:08	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI

Sample Information

Client Sample ID: MW-109 **York Sample ID:** 22K0116-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0116	27-09 40th Avenue, Long Island City 19-401	Water	November 1, 2022 10:33 am	11/02/2022

VOA, 8260 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 05:08 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 05:08 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
67-66-3	**Chloroform**	**0.800**		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 05:08 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA	JTG
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 05:08 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 05:08 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 05:08 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 05:08 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	JTG
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 05:08 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 05:08 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	JTG
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 05:08 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	JTG
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 05:08 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 05:08 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	JTG
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 05:08 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
79-20-9	**Methyl acetate**	**1.08**		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 05:08 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	JTG
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 05:08 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 05:08 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	JTG
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 05:08 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 05:08 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	JTG
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 05:08 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 05:08 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 05:08 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP	JTG
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 05:08 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP	JTG
105-05-5	* p-Diethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 05:08	JTG

Sample Information

Client Sample ID: MW-109 **York Sample ID:** 22K0116-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0116	27-09 40th Avenue, Long Island City 19-401	Water	November 1, 2022 10:33 am	11/02/2022

VOA, 8260 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
622-96-8	* p-Ethyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 05:08	JTG
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	11/15/2022 05:08	JTG
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	11/15/2022 05:08	JTG
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	11/15/2022 05:08	JTG
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	11/14/2022 06:04 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/15/2022 05:08	JTG
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	11/15/2022 05:08	JTG
127-18-4	**Tetrachloroethylene**	**511**		ug/L	2.00	5.00	10	EPA 8260C Certifications:	11/15/2022 06:52 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA	11/15/2022 17:58	JTG
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	11/15/2022 05:08	JTG
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	11/15/2022 05:08	JTG
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	11/15/2022 05:08	JTG
79-01-6	**Trichloroethylene**	**2.99**		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA	11/15/2022 05:08	JTG
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	11/15/2022 05:08	JTG
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	11/15/2022 05:08	JTG
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications:	11/14/2022 06:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP	11/15/2022 05:08	JTG

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*103 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*100 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*109 %*	*79-122*

Sample Information

Client Sample ID: MW-110 **York Sample ID:** 22K0116-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0116	27-09 40th Avenue, Long Island City 19-401	Water	November 1, 2022 10:53 am	11/02/2022

VOA, 8260 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: **MW-110** **York Sample ID:** **22K0116-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0116	27-09 40th Avenue, Long Island City 19-401	Water	November 1, 2022 10:53 am	11/02/2022

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 04:41	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 04:41	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 04:41	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 04:41	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 04:41	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 04:41	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 04:41	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 04:41	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 04:41	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 04:41	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 04:41	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 04:41	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 04:41	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 04:41	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 04:41	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 04:41	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 04:41	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 04:41	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 04:41	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 04:41	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 04:41	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 04:41	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 04:41	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 04:41	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI

Sample Information

Client Sample ID: **MW-110** **York Sample ID:** **22K0116-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0116	27-09 40th Avenue, Long Island City 19-401	Water	November 1, 2022 10:53 am	11/02/2022

VOA, 8260 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-64-1	**Acetone**	**1.29**	ICVE, QL-02, J	ug/L	1.00	2.00	1	EPA 8260C	11/14/2022 06:04	11/15/2022 04:41	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA		
107-02-8	Acrolein	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 04:41	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
107-13-1	Acrylonitrile	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 04:41	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 04:41	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 04:41	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 04:41	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 04:41	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 04:41	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 04:41	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 04:41	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 04:41	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 04:41	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
67-66-3	**Chloroform**	**1.00**		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 04:41	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA		
74-87-3	**Chloromethane**	**0.810**	CCVE	ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 04:41	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA		
156-59-2	**cis-1,2-Dichloroethylene**	**2.32**		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 04:41	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 04:41	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 04:41	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 04:41	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 04:41	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 04:41	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 04:41	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 04:41	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	11/14/2022 06:04	11/15/2022 04:41	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		

Sample Information

Client Sample ID: **MW-110** **York Sample ID:** **22K0116-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0116	27-09 40th Avenue, Long Island City 19-401	Water	November 1, 2022 10:53 am	11/02/2022

VOA, 8260 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 04:41 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	JTG
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 04:41 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 04:41 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	JTG
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 04:41 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 04:41 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	JTG
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 04:41 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 04:41 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 04:41 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP	JTG
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 04:41 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP	JTG
105-05-5	* p-Diethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 04:41	JTG
622-96-8	* p-Ethyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 04:41	JTG
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 04:41 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 04:41 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 04:41 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 04:41 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	JTG
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 04:41 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
127-18-4	**Tetrachloroethylene**	**300**		ug/L	2.00	5.00	10	EPA 8260C Certifications:	11/15/2022 06:52	11/15/2022 20:20 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA	JTG
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 04:41 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
156-60-5	**trans-1,2-Dichloroethylene**	**0.400**	J	ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 04:41 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA	JTG
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 04:41 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG
79-01-6	**Trichloroethylene**	**2.82**		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 04:41 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA	JTG
75-69-4	**Trichlorofluoromethane**	**1.04**		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 04:41 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA	JTG
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/15/2022 04:41 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	JTG

Sample Information

Client Sample ID: MW-110 **York Sample ID:** 22K0116-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0116	27-09 40th Avenue, Long Island City 19-401	Water	November 1, 2022 10:53 am	11/02/2022

VOA, 8260 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications:	11/14/2022 06:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP	11/15/2022 04:41	JTG

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*103 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*100 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*107 %*	*79-122*

Sample Information

Client Sample ID: DUP **York Sample ID:** 22K0116-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0116	27-09 40th Avenue, Long Island City 19-401	Water	November 1, 2022 7:00 am	11/02/2022

VOA, 8260 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	11/15/2022 18:50	JTG
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	11/15/2022 18:50	JTG
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	11/15/2022 18:50	JTG
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	11/15/2022 18:50	JTG
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	11/15/2022 18:50	JTG
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	11/15/2022 18:50	JTG
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	11/15/2022 18:50	JTG
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/15/2022 18:50	JTG
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/15/2022 18:50	JTG
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	11/15/2022 18:50	JTG
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	11/15/2022 18:50	JTG
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	11/15/2022 18:50	JTG

Sample Information

Client Sample ID: DUP

York Sample ID: 22K0116-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0116	27-09 40th Avenue, Long Island City 19-401	Water	November 1, 2022 7:00 am	11/02/2022

VOA, 8260 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:50	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:50	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:50	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:50	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:50	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:50	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:50	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:50	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:50	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:50	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:50	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:50	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
67-64-1	**Acetone**	**2.65**	ICVE, QL-02	ug/L	1.00	2.00	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:50	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
107-02-8	Acrolein	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:50	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
107-13-1	Acrylonitrile	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:50	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:50	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:50	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:50	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:50	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:50	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:50	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:50	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:50	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI

Sample Information

Client Sample ID: DUP

York Sample ID: 22K0116-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0116	27-09 40th Avenue, Long Island City 19-401	Water	November 1, 2022 7:00 am	11/02/2022

VOA, 8260 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:50	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
67-66-3	**Chloroform**	**0.920**		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:50	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:50	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
156-59-2	**cis-1,2-Dichloroethylene**	**0.230**	J	ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:50	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:50	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:50	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:50	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:50	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:50	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:50	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:50	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:50	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:50	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:50	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:50	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:50	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:50	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:50	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:50	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:50	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:50	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP
105-05-5	* p-Diethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:50	JTG
622-96-8	* p-Ethyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/15/2022 06:24	11/15/2022 18:50	JTG

Sample Information

Client Sample ID: DUP **York Sample ID:** 22K0116-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0116	27-09 40th Avenue, Long Island City 19-401	Water	November 1, 2022 7:00 am	11/02/2022

VOA, 8260 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C	11/15/2022 06:24	11/15/2022 18:50	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	11/15/2022 06:24	11/15/2022 18:50	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C	11/15/2022 06:24	11/15/2022 18:50	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.500	1.00	1	EPA 8260C	11/15/2022 06:24	11/15/2022 18:50	JTG
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C	11/15/2022 06:24	11/15/2022 18:50	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
127-18-4	**Tetrachloroethylene**	**1430**		ug/L	2.00	5.00	10	EPA 8260C	11/15/2022 06:52	11/15/2022 17:19	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA		
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C	11/15/2022 06:24	11/15/2022 18:50	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C	11/15/2022 06:24	11/15/2022 18:50	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C	11/15/2022 06:24	11/15/2022 18:50	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
79-01-6	**Trichloroethylene**	**3.59**		ug/L	0.200	0.500	1	EPA 8260C	11/15/2022 06:24	11/15/2022 18:50	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA		
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C	11/15/2022 06:24	11/15/2022 18:50	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C	11/15/2022 06:24	11/15/2022 18:50	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C	11/15/2022 06:24	11/15/2022 18:50	JTG
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP		

	Surrogate Recoveries	Result		Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*138 %*	S-03	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*95.2 %*		*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*107 %*		*79-122*

Sample Information

Client Sample ID: Trip Blank **York Sample ID:** 22K0116-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0116	27-09 40th Avenue, Long Island City 19-401	Water	November 1, 2022 8:00 am	11/02/2022

VOA, 8260 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: **Trip Blank** **York Sample ID:** **22K0116-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0116	27-09 40th Avenue, Long Island City 19-401	Water	November 1, 2022 8:00 am	11/02/2022

VOA, 8260 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-34-3	1,1-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
106-93-4	1,2-Dibromoethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
107-06-2	1,2-Dichloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
78-87-5	1,2-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
142-28-9	1,3-Dichloropropane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
123-91-1	1,4-Dioxane	ND		ug/L	40.0	80.0	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
78-93-3	2-Butanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
591-78-6	2-Hexanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI

Sample Information

Client Sample ID: **Trip Blank** **York Sample ID:** **22K0116-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0116	27-09 40th Avenue, Long Island City 19-401	Water	November 1, 2022 8:00 am	11/02/2022

VOA, 8260 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
67-64-1	Acetone	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
107-02-8	Acrolein	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
107-13-1	Acrylonitrile	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
71-43-2	Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
74-97-5	Bromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-27-4	Bromodichloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-25-2	Bromoform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
74-83-9	Bromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-15-0	Carbon disulfide	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
56-23-5	Carbon tetrachloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
108-90-7	Chlorobenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-00-3	Chloroethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
67-66-3	Chloroform	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
74-87-3	Chloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
110-82-7	Cyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
124-48-1	Dibromochloromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
74-95-3	Dibromomethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
100-41-4	Ethyl Benzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
87-68-3	Hexachlorobutadiene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP

Sample Information

Client Sample ID: **Trip Blank** **York Sample ID:** **22K0116-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0116	27-09 40th Avenue, Long Island City 19-401	Water	November 1, 2022 8:00 am	11/02/2022

VOA, 8260 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
98-82-8	Isopropylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
79-20-9	Methyl acetate	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
108-87-2	Methylcyclohexane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-09-2	Methylene chloride	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
91-20-3	Naphthalene	ND		ug/L	1.00	2.00	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
104-51-8	n-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
103-65-1	n-Propylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
95-47-6	o-Xylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP
105-05-5	* p-Diethylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG
622-96-8	* p-Ethyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG
99-87-6	p-Isopropyltoluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
135-98-8	sec-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
100-42-5	Styrene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.500	1.00	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
98-06-6	tert-Butylbenzene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
127-18-4	Tetrachloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
108-88-3	Toluene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
79-01-6	Trichloroethylene	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-69-4	Trichlorofluoromethane	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04	11/14/2022 23:48	JTG CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI

Sample Information

Client Sample ID: **Trip Blank** **York Sample ID:** **22K0116-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22K0116	27-09 40th Avenue, Long Island City 19-401	Water	November 1, 2022 8:00 am	11/02/2022

VOA, 8260 LOW MASTER

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/L	0.200	0.500	1	EPA 8260C Certifications:	11/14/2022 06:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	11/14/2022 23:48	JTG
1330-20-7	Xylenes, Total	ND		ug/L	0.600	1.50	1	EPA 8260C Certifications:	11/14/2022 06:04 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP	11/14/2022 23:48	JTG

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*103 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*101 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*105 %*	*79-122*

Analytical Batch Summary

Batch ID: BK20166 **Preparation Method:** EPA SW846-7470A **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
22K0116-05	MW-105	11/02/22
22K0116-06	MW-106	11/02/22
22K0116-07	MW-107	11/02/22
BK20166-BLK1	Blank	11/02/22
BK20166-BS1	LCS	11/02/22
BK20166-DUP1	Duplicate	11/02/22
BK20166-MS1	Matrix Spike	11/02/22

Batch ID: BK20423 **Preparation Method:** EPA SW846-7470A **Prepared By:** AA

YORK Sample ID	Client Sample ID	Preparation Date
22K0116-05	MW-105	11/07/22
22K0116-06	MW-106	11/07/22
22K0116-07	MW-107	11/07/22
BK20423-BLK1	Blank	11/07/22
BK20423-BS1	LCS	11/07/22
BK20423-BS2	LCS	11/07/22

Batch ID: BK20451 **Preparation Method:** EPA 3015A **Prepared By:** cw

YORK Sample ID	Client Sample ID	Preparation Date
22K0116-05	MW-105	11/08/22
22K0116-06	MW-106	11/08/22
22K0116-07	MW-107	11/08/22
BK20451-BLK2	Blank	11/08/22
BK20451-BS2	LCS	11/08/22

Batch ID: BK20455 **Preparation Method:** EPA 3015A **Prepared By:** cw

YORK Sample ID	Client Sample ID	Preparation Date
22K0116-05	MW-105	11/08/22
22K0116-06	MW-106	11/08/22
22K0116-07	MW-107	11/08/22
BK20455-BLK1	Blank	11/08/22
BK20455-BS1	LCS	11/08/22

Batch ID: BK20551 **Preparation Method:** EPA 3015A **Prepared By:** cw

YORK Sample ID	Client Sample ID	Preparation Date
22K0116-05	MW-105	11/09/22
22K0116-06	MW-106	11/09/22
22K0116-06RE1	MW-106	11/09/22
22K0116-07	MW-107	11/09/22

BK20551-BLK1	Blank	11/09/22
BK20551-BS1	LCS	11/09/22
BK20551-DUP1	Duplicate	11/09/22
BK20551-MS1	Matrix Spike	11/09/22
BK20551-PS1	Post Spike	11/09/22

Batch ID: BK20553 **Preparation Method:** EPA 3015A **Prepared By:** cw

YORK Sample ID	Client Sample ID	Preparation Date
22K0116-05	MW-105	11/09/22
22K0116-06	MW-106	11/09/22
22K0116-07	MW-107	11/09/22
BK20553-BLK1	Blank	11/09/22
BK20553-BS1	LCS	11/09/22
BK20553-DUP1	Duplicate	11/09/22
BK20553-MS1	Matrix Spike	11/09/22
BK20553-PS1	Post Spike	11/09/22

Batch ID: BK20827 **Preparation Method:** EPA 5030B **Prepared By:** JTG

YORK Sample ID	Client Sample ID	Preparation Date
22K0116-01	MW-101	11/14/22
22K0116-02	MW-102	11/14/22
22K0116-03	MW-103	11/14/22
22K0116-04	MW-104	11/14/22
22K0116-07	MW-107	11/14/22
22K0116-09	MW-109	11/14/22
22K0116-10	MW-110	11/14/22
22K0116-12	Trip Blank	11/14/22
BK20827-BLK1	Blank	11/14/22
BK20827-BS1	LCS	11/14/22
BK20827-MS1	Matrix Spike	11/14/22
BK20827-MSD1	Matrix Spike Dup	11/14/22

Batch ID: BK20828 **Preparation Method:** EPA 5030B **Prepared By:** JTG

YORK Sample ID	Client Sample ID	Preparation Date
22K0116-04RE1	MW-104	11/15/22
22K0116-06RE1	MW-106	11/15/22
22K0116-07RE1	MW-107	11/15/22
22K0116-08RE1	MW-108	11/15/22
22K0116-09RE1	MW-109	11/15/22
22K0116-10RE1	MW-110	11/15/22
22K0116-11RE1	DUP	11/15/22
BK20828-BLK1	Blank	11/15/22
BK20828-BS1	LCS	11/15/22
BK20828-BSD1	LCS Dup	11/15/22

Batch ID: BK20830 **Preparation Method:** EPA 5030B **Prepared By:** JTG

YORK Sample ID	Client Sample ID	Preparation Date
22K0116-05	MW-105	11/15/22
22K0116-06	MW-106	11/15/22
22K0116-08	MW-108	11/15/22
22K0116-11	DUP	11/15/22
BK20830-BLK1	Blank	11/15/22
BK20830-BS1	LCS	11/15/22
BK20830-BSD1	LCS Dup	11/15/22
BK20830-MS1	Matrix Spike	11/15/22
BK20830-MSD1	Matrix Spike Dup	11/15/22

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK20827 - EPA 5030B											
Blank (BK20827-BLK1)									Prepared & Analyzed: 11/14/2022		
1,1,1,2-Tetrachloroethane	ND	0.500	ug/L								
1,1,1-Trichloroethane	ND	0.500	"								
1,1,2,2-Tetrachloroethane	ND	0.500	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.500	"								
1,1,2-Trichloroethane	ND	0.500	"								
1,1-Dichloroethane	ND	0.500	"								
1,1-Dichloroethylene	ND	0.500	"								
1,2,3-Trichlorobenzene	ND	0.500	"								
1,2,3-Trichloropropane	ND	0.500	"								
1,2,4-Trichlorobenzene	ND	0.500	"								
1,2,4-Trimethylbenzene	ND	0.500	"								
1,2-Dibromo-3-chloropropane	ND	0.500	"								
1,2-Dibromoethane	ND	0.500	"								
1,2-Dichlorobenzene	ND	0.500	"								
1,2-Dichloroethane	ND	0.500	"								
1,2-Dichloropropane	ND	0.500	"								
1,3,5-Trimethylbenzene	ND	0.500	"								
1,3-Dichlorobenzene	ND	0.500	"								
1,3-Dichloropropane	ND	0.500	"								
1,4-Dichlorobenzene	ND	0.500	"								
1,4-Dioxane	ND	80.0	"								
2-Butanone	ND	0.500	"								
2-Hexanone	ND	0.500	"								
4-Methyl-2-pentanone	ND	0.500	"								
Acetone	ND	2.00	"								
Acrolein	ND	0.500	"								
Acrylonitrile	ND	0.500	"								
Benzene	ND	0.500	"								
Bromochloromethane	ND	0.500	"								
Bromodichloromethane	ND	0.500	"								
Bromoform	ND	0.500	"								
Bromomethane	ND	0.500	"								
Carbon disulfide	ND	0.500	"								
Carbon tetrachloride	ND	0.500	"								
Chlorobenzene	ND	0.500	"								
Chloroethane	ND	0.500	"								
Chloroform	ND	0.500	"								
Chloromethane	ND	0.500	"								
cis-1,2-Dichloroethylene	ND	0.500	"								
cis-1,3-Dichloropropylene	ND	0.500	"								
Cyclohexane	ND	0.500	"								
Dibromochloromethane	ND	0.500	"								
Dibromomethane	ND	0.500	"								
Dichlorodifluoromethane	ND	0.500	"								
Ethyl Benzene	ND	0.500	"								
Hexachlorobutadiene	ND	0.500	"								
Isopropylbenzene	ND	0.500	"								
Methyl acetate	ND	0.500	"								
Methyl tert-butyl ether (MTBE)	ND	0.500	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK20827 - EPA 5030B											
Blank (BK20827-BLK1)								Prepared & Analyzed: 11/14/2022			
Methylcyclohexane	ND	0.500	ug/L								
Methylene chloride	ND	2.00	"								
Naphthalene	ND	2.00	"								
n-Butylbenzene	ND	0.500	"								
n-Propylbenzene	ND	0.500	"								
o-Xylene	ND	0.500	"								
p- & m- Xylenes	ND	1.00	"								
p-Diethylbenzene	ND	0.500	"								
p-Ethyltoluene	ND	0.500	"								
p-Isopropyltoluene	ND	0.500	"								
sec-Butylbenzene	ND	0.500	"								
Styrene	ND	0.500	"								
tert-Butyl alcohol (TBA)	ND	1.00	"								
tert-Butylbenzene	ND	0.500	"								
Tetrachloroethylene	ND	0.500	"								
Toluene	ND	0.500	"								
trans-1,2-Dichloroethylene	ND	0.500	"								
trans-1,3-Dichloropropylene	ND	0.500	"								
Trichloroethylene	ND	0.500	"								
Trichlorofluoromethane	ND	0.500	"								
Vinyl Chloride	ND	0.500	"								
Xylenes, Total	ND	1.50	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.3*		*"*	*10.0*		*103*	*69-130*				
Surrogate: SURR: Toluene-d8	*11.3*		*"*	*10.0*		*113*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.5*		*"*	*10.0*		*105*	*79-122*				
LCS (BK20827-BS1)								Prepared & Analyzed: 11/14/2022			
1,1,1,2-Tetrachloroethane	10.4		ug/L	10.0		104	82-126				
1,1,1-Trichloroethane	11.0		"	10.0		110	78-136				
1,1,2,2-Tetrachloroethane	7.04		"	10.0		70.4	76-129	Low Bias			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.64		"	10.0		96.4	54-165				
1,1,2-Trichloroethane	8.09		"	10.0		80.9	82-123	Low Bias			
1,1-Dichloroethane	8.85		"	10.0		88.5	82-129				
1,1-Dichloroethylene	10.4		"	10.0		104	68-138				
1,2,3-Trichlorobenzene	3.85		"	10.0		38.5	76-136	Low Bias			
1,2,3-Trichloropropane	8.96		"	10.0		89.6	77-128				
1,2,4-Trichlorobenzene	9.37		"	10.0		93.7	76-137				
1,2,4-Trimethylbenzene	9.67		"	10.0		96.7	82-132				
1,2-Dibromo-3-chloropropane	6.77		"	10.0		67.7	45-147				
1,2-Dibromoethane	8.88		"	10.0		88.8	83-124				
1,2-Dichlorobenzene	9.10		"	10.0		91.0	79-123				
1,2-Dichloroethane	11.2		"	10.0		112	73-132				
1,2-Dichloropropane	8.14		"	10.0		81.4	78-126				
1,3,5-Trimethylbenzene	9.79		"	10.0		97.9	80-131				
1,3-Dichlorobenzene	9.76		"	10.0		97.6	86-122				
1,3-Dichloropropane	8.47		"	10.0		84.7	81-125				
1,4-Dichlorobenzene	9.65		"	10.0		96.5	85-124				
1,4-Dioxane	212		"	210		101	10-349				
2-Butanone	7.73		"	10.0		77.3	49-152				
2-Hexanone	8.30		"	10.0		83.0	51-146				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK20827 - EPA 5030B											
LCS (BK20827-BS1)								Prepared & Analyzed: 11/14/2022			
4-Methyl-2-pentanone	8.47		ug/L	10.0		84.7	57-145				
Acetone	26.0		"	10.0		260	14-150	High Bias			
Acrolein	5.28		"	10.0		52.8	10-153				
Acrylonitrile	8.52		"	10.0		85.2	51-150				
Benzene	8.83		"	10.0		88.3	85-126				
Bromochloromethane	7.57		"	10.0		75.7	77-128	Low Bias			
Bromodichloromethane	9.95		"	10.0		99.5	79-128				
Bromoform	10.5		"	10.0		105	78-133				
Bromomethane	4.60		"	10.0		46.0	43-168				
Carbon disulfide	9.01		"	10.0		90.1	68-146				
Carbon tetrachloride	12.3		"	10.0		123	77-141				
Chlorobenzene	9.57		"	10.0		95.7	88-120				
Chloroethane	9.53		"	10.0		95.3	65-136				
Chloroform	9.77		"	10.0		97.7	82-128				
Chloromethane	8.48		"	10.0		84.8	43-155				
cis-1,2-Dichloroethylene	9.05		"	10.0		90.5	83-129				
cis-1,3-Dichloropropylene	8.88		"	10.0		88.8	80-131				
Cyclohexane	4.47		"	10.0		44.7	63-149	Low Bias			
Dibromochloromethane	10.1		"	10.0		101	80-130				
Dibromomethane	8.54		"	10.0		85.4	72-134				
Dichlorodifluoromethane	14.6		"	10.0		146	44-144	High Bias			
Ethyl Benzene	9.45		"	10.0		94.5	80-131				
Hexachlorobutadiene	7.61		"	10.0		76.1	67-146				
Isopropylbenzene	9.42		"	10.0		94.2	76-140				
Methyl acetate	8.35		"	10.0		83.5	51-139				
Methyl tert-butyl ether (MTBE)	9.30		"	10.0		93.0	76-135				
Methylcyclohexane	8.82		"	10.0		88.2	72-143				
Methylene chloride	9.49		"	10.0		94.9	55-137				
Naphthalene	4.04		"	10.0		40.4	70-147	Low Bias			
n-Butylbenzene	9.95		"	10.0		99.5	79-132				
n-Propylbenzene	9.06		"	10.0		90.6	78-133				
o-Xylene	9.82		"	10.0		98.2	78-130				
p- & m- Xylenes	19.9		"	20.0		99.4	77-133				
p-Diethylbenzene	9.97		"	10.0		99.7	84-134				
p-Ethyltoluene	10.7		"	10.0		107	88-129				
p-Isopropyltoluene	10.4		"	10.0		104	81-136				
sec-Butylbenzene	9.70		"	10.0		97.0	79-137				
Styrene	9.14		"	10.0		91.4	67-132				
tert-Butyl alcohol (TBA)	40.2		"	50.0		80.3	25-162				
tert-Butylbenzene	8.38		"	10.0		83.8	77-138				
Tetrachloroethylene	9.92		"	10.0		99.2	82-131				
Toluene	8.64		"	10.0		86.4	80-127				
trans-1,2-Dichloroethylene	9.38		"	10.0		93.8	80-132				
trans-1,3-Dichloropropylene	9.57		"	10.0		95.7	78-131				
Trichloroethylene	11.4		"	10.0		114	82-128				
Trichlorofluoromethane	13.1		"	10.0		131	67-139				
Vinyl Chloride	11.7		"	10.0		117	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*12.0*		*"*	*10.0*		*120*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.65*		*"*	*10.0*		*96.5*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*9.47*		*"*	*10.0*		*94.7*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK20827 - EPA 5030B											
Matrix Spike (BK20827-MS1)	*Source sample: 22K0305-01 (Matrix Spike)							Prepared: 11/14/2022 Analyzed: 11/15/2022			
1,1,1,2-Tetrachloroethane	10.0		ug/L	10.0	0.00	100	45-161				
1,1,1-Trichloroethane	12.4		"	10.0	0.00	124	70-146				
1,1,2,2-Tetrachloroethane	7.74		"	10.0	0.00	77.4	74-121				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.4		"	10.0	0.00	104	21-217				
1,1,2-Trichloroethane	8.49		"	10.0	0.00	84.9	59-146				
1,1-Dichloroethane	9.71		"	10.0	0.00	97.1	54-146				
1,1-Dichloroethylene	12.0		"	10.0	0.00	120	44-165				
1,2,3-Trichlorobenzene	2.93		"	10.0	0.00	29.3	40-161	Low Bias			
1,2,3-Trichloropropane	9.02		"	10.0	0.00	90.2	74-127				
1,2,4-Trichlorobenzene	8.22		"	10.0	0.00	82.2	41-161				
1,2,4-Trimethylbenzene	10.2		"	10.0	0.00	102	72-129				
1,2-Dibromo-3-chloropropane	7.25		"	10.0	0.00	72.5	31-151				
1,2-Dibromoethane	8.80		"	10.0	0.00	88.0	75-125				
1,2-Dichlorobenzene	8.85		"	10.0	0.00	88.5	63-122				
1,2-Dichloroethane	12.0		"	10.0	0.00	120	68-131				
1,2-Dichloropropane	9.21		"	10.0	0.00	92.1	77-121				
1,3,5-Trimethylbenzene	10.6		"	10.0	0.00	106	69-126				
1,3-Dichlorobenzene	9.74		"	10.0	0.00	97.4	74-119				
1,3-Dichloropropane	9.07		"	10.0	0.00	90.7	77-119				
1,4-Dichlorobenzene	9.70		"	10.0	0.00	97.0	70-124				
1,4-Dioxane	230		"	210	0.00	109	10-310				
2-Butanone	7.75		"	10.0	0.00	77.5	10-193				
2-Hexanone	9.13		"	10.0	0.00	91.3	53-133				
4-Methyl-2-pentanone	9.85		"	10.0	0.00	98.5	38-150				
Acetone	30.7		"	10.0	0.980	298	13-149	High Bias			
Acrolein	4.96		"	10.0	0.00	49.6	10-195				
Acrylonitrile	8.21		"	10.0	0.00	82.1	37-165				
Benzene	8.40		"	10.0	0.00	84.0	38-155				
Bromochloromethane	8.66		"	10.0	0.00	86.6	75-121				
Bromodichloromethane	10.9		"	10.0	0.00	109	70-129				
Bromoform	9.00		"	10.0	0.00	90.0	66-136				
Bromomethane	4.18		"	10.0	0.00	41.8	30-158				
Carbon disulfide	9.70		"	10.0	0.00	97.0	10-138				
Carbon tetrachloride	13.6		"	10.0	0.00	136	71-146				
Chlorobenzene	9.71		"	10.0	0.00	97.1	81-117				
Chloroethane	10.1		"	10.0	0.00	101	51-145				
Chloroform	11.1		"	10.0	0.340	108	80-124				
Chloromethane	10.9		"	10.0	0.00	109	16-163				
cis-1,2-Dichloroethylene	9.75		"	10.0	0.00	97.5	76-125				
cis-1,3-Dichloropropylene	9.16		"	10.0	0.00	91.6	58-131				
Cyclohexane	4.50		"	10.0	0.00	45.0	70-130	Low Bias			
Dibromochloromethane	9.57		"	10.0	0.00	95.7	71-129				
Dibromomethane	9.82		"	10.0	0.00	98.2	76-120				
Dichlorodifluoromethane	20.4		"	10.0	0.00	204	30-147	High Bias			
Ethyl Benzene	10.2		"	10.0	0.00	102	72-128				
Hexachlorobutadiene	5.79		"	10.0	0.00	57.9	34-166				
Isopropylbenzene	10.1		"	10.0	0.00	101	66-139				
Methyl acetate	6.89		"	10.0	0.00	68.9	10-200				
Methyl tert-butyl ether (MTBE)	9.44		"	10.0	0.00	94.4	75-128				
Methylcyclohexane	9.25		"	10.0	0.00	92.5	70-130				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK20827 - EPA 5030B											
Matrix Spike (BK20827-MS1)	*Source sample: 22K0305-01 (Matrix Spike)							Prepared: 11/14/2022 Analyzed: 11/15/2022			
Methylene chloride	11.0		ug/L	10.0	0.190	108	57-128				
Naphthalene	3.28		"	10.0	0.00	32.8	39-158	Low Bias			
n-Butylbenzene	10.4		"	10.0	0.00	104	61-138				
n-Propylbenzene	10.2		"	10.0	0.00	102	66-134				
o-Xylene	10.5		"	10.0	0.00	105	69-126				
p- & m- Xylenes	21.3		"	20.0	0.00	107	67-130				
p-Diethylbenzene	10.0		"	10.0	0.00	100	52-150				
p-Ethyltoluene	11.5		"	10.0	0.00	115	76-127				
p-Isopropyltoluene	10.5		"	10.0	0.00	105	64-137				
sec-Butylbenzene	10.2		"	10.0	0.00	102	53-155				
Styrene	9.03		"	10.0	0.00	90.3	69-125				
tert-Butyl alcohol (TBA)	37.7		"	50.0	0.00	75.5	10-130				
tert-Butylbenzene	8.61		"	10.0	0.00	86.1	65-139				
Tetrachloroethylene	13.3		"	10.0	1.08	122	64-139				
Toluene	9.64		"	10.0	0.00	96.4	76-123				
trans-1,2-Dichloroethylene	10.5		"	10.0	0.00	105	79-131				
trans-1,3-Dichloropropylene	9.45		"	10.0	0.00	94.5	55-130				
Trichloroethylene	9.67		"	10.0	0.280	93.9	53-145				
Trichlorofluoromethane	15.8		"	10.0	0.00	158	61-142	High Bias			
Vinyl Chloride	13.8		"	10.0	0.00	138	31-165				
Surrogate: SURR: 1,2-Dichloroethane-d4	*13.0*		*"*	*10.0*		*130*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.3*		*"*	*10.0*		*103*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.5*		*"*	*10.0*		*105*	*79-122*				
Matrix Spike Dup (BK20827-MSD1)	*Source sample: 22K0305-01 (Matrix Spike Dup)							Prepared: 11/14/2022 Analyzed: 11/15/2022			
1,1,1,2-Tetrachloroethane	9.80		ug/L	10.0	0.00	98.0	45-161		2.32	30	
1,1,1-Trichloroethane	10.0		"	10.0	0.00	100	70-146		21.1	30	
1,1,2,2-Tetrachloroethane	9.09		"	10.0	0.00	90.9	74-121		16.0	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	8.18		"	10.0	0.00	81.8	21-217		23.7	30	
1,1,2-Trichloroethane	9.61		"	10.0	0.00	96.1	59-146		12.4	30	
1,1-Dichloroethane	7.71		"	10.0	0.00	77.1	54-146		23.0	30	
1,1-Dichloroethylene	9.60		"	10.0	0.00	96.0	44-165		22.6	30	
1,2,3-Trichlorobenzene	4.18		"	10.0	0.00	41.8	40-161		35.2	30	Non-dir.
1,2,3-Trichloropropane	10.3		"	10.0	0.00	103	74-127		13.5	30	
1,2,4-Trichlorobenzene	9.39		"	10.0	0.00	93.9	41-161		13.3	30	
1,2,4-Trimethylbenzene	10.9		"	10.0	0.00	109	72-129		6.26	30	
1,2-Dibromo-3-chloropropane	7.39		"	10.0	0.00	73.9	31-151		1.91	30	
1,2-Dibromoethane	8.40		"	10.0	0.00	84.0	75-125		4.65	30	
1,2-Dichlorobenzene	8.59		"	10.0	0.00	85.9	63-122		2.98	30	
1,2-Dichloroethane	10.4		"	10.0	0.00	104	68-131		14.5	30	
1,2-Dichloropropane	9.71		"	10.0	0.00	97.1	77-121		5.29	30	
1,3,5-Trimethylbenzene	11.9		"	10.0	0.00	119	69-126		12.3	30	
1,3-Dichlorobenzene	8.67		"	10.0	0.00	86.7	74-119		11.6	30	
1,3-Dichloropropane	9.89		"	10.0	0.00	98.9	77-119		8.65	30	
1,4-Dichlorobenzene	8.74		"	10.0	0.00	87.4	70-124		10.4	30	
1,4-Dioxane	224		"	210	0.00	107	10-310		2.52	30	
2-Butanone	6.59		"	10.0	0.00	65.9	10-193		16.2	30	
2-Hexanone	10.2		"	10.0	0.00	102	53-133		11.6	30	
4-Methyl-2-pentanone	11.4		"	10.0	0.00	114	38-150		14.8	30	
Acetone	24.8		"	10.0	0.980	238	13-149	High Bias	21.4	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK20827 - EPA 5030B											
Matrix Spike Dup (BK20827-MSD1)	*Source sample: 22K0305-01 (Matrix Spike Dup)								Prepared: 11/14/2022 Analyzed: 11/15/2022		
Acrolein	4.36		ug/L	10.0	0.00	43.6	10-195		12.9	30	
Acrylonitrile	7.09		"	10.0	0.00	70.9	37-165		14.6	30	
Benzene	7.85		"	10.0	0.00	78.5	38-155		6.77	30	
Bromochloromethane	7.06		"	10.0	0.00	70.6	75-121	Low Bias	20.4	30	
Bromodichloromethane	10.9		"	10.0	0.00	109	70-129		0.183	30	
Bromoform	10.0		"	10.0	0.00	100	66-136		10.8	30	
Bromomethane	4.15		"	10.0	0.00	41.5	30-158		0.720	30	
Carbon disulfide	8.44		"	10.0	0.00	84.4	10-138		13.9	30	
Carbon tetrachloride	10.8		"	10.0	0.00	108	71-146		23.0	30	
Chlorobenzene	9.48		"	10.0	0.00	94.8	81-117		2.40	30	
Chloroethane	9.14		"	10.0	0.00	91.4	51-145		10.2	30	
Chloroform	9.00		"	10.0	0.340	86.6	80-124		21.0	30	
Chloromethane	10.2		"	10.0	0.00	102	16-163		7.11	30	
cis-1,2-Dichloroethylene	7.84		"	10.0	0.00	78.4	76-125		21.7	30	
cis-1,3-Dichloropropylene	10.2		"	10.0	0.00	102	58-131		10.9	30	
Cyclohexane	3.55		"	10.0	0.00	35.5	70-130	Low Bias	23.6	30	
Dibromochloromethane	9.15		"	10.0	0.00	91.5	71-129		4.49	30	
Dibromomethane	9.30		"	10.0	0.00	93.0	76-120		5.44	30	
Dichlorodifluoromethane	15.8		"	10.0	0.00	158	30-147	High Bias	25.2	30	
Ethyl Benzene	10.0		"	10.0	0.00	100	72-128		2.27	30	
Hexachlorobutadiene	5.45		"	10.0	0.00	54.5	34-166		6.05	30	
Isopropylbenzene	12.0		"	10.0	0.00	120	66-139		16.8	30	
Methyl acetate	5.41		"	10.0	0.00	54.1	10-200		24.1	30	
Methyl tert-butyl ether (MTBE)	7.74		"	10.0	0.00	77.4	75-128		19.8	30	
Methylcyclohexane	8.98		"	10.0	0.00	89.8	70-130		2.96	30	
Methylene chloride	8.90		"	10.0	0.190	87.1	57-128		21.3	30	
Naphthalene	4.63		"	10.0	0.00	46.3	39-158		34.1	30	Non-dir.
n-Butylbenzene	9.74		"	10.0	0.00	97.4	61-138		6.94	30	
n-Propylbenzene	11.7		"	10.0	0.00	117	66-134		13.5	30	
o-Xylene	10.6		"	10.0	0.00	106	69-126		1.70	30	
p- & m- Xylenes	20.9		"	20.0	0.00	104	67-130		2.23	30	
p-Diethylbenzene	9.38		"	10.0	0.00	93.8	52-150		6.90	30	
p-Ethyltoluene	12.7		"	10.0	0.00	127	76-127		10.1	30	
p-Isopropyltoluene	9.37		"	10.0	0.00	93.7	64-137		11.2	30	
sec-Butylbenzene	11.5		"	10.0	0.00	115	53-155		12.5	30	
Styrene	9.29		"	10.0	0.00	92.9	69-125		2.84	30	
tert-Butyl alcohol (TBA)	31.4		"	50.0	0.00	62.9	10-130		18.2	30	
tert-Butylbenzene	9.60		"	10.0	0.00	96.0	65-139		10.9	30	
Tetrachloroethylene	11.8		"	10.0	1.08	108	64-139		11.3	30	
Toluene	10.9		"	10.0	0.00	109	76-123		12.6	30	
trans-1,2-Dichloroethylene	8.44		"	10.0	0.00	84.4	79-131		22.1	30	
trans-1,3-Dichloropropylene	10.2		"	10.0	0.00	102	55-130		7.34	30	
Trichloroethylene	10.6		"	10.0	0.280	103	53-145		9.18	30	
Trichlorofluoromethane	12.4		"	10.0	0.00	124	61-142		24.3	30	
Vinyl Chloride	11.4		"	10.0	0.00	114	31-165		19.4	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.9*		*"*	*10.0*		*109*	*69-130*				
Surrogate: SURR: Toluene-d8	*11.8*		*"*	*10.0*		*118*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*11.8*		*"*	*10.0*		*118*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK20828 - EPA 5030B											
Blank (BK20828-BLK1)									Prepared & Analyzed: 11/15/2022		
1,1,1,2-Tetrachloroethane	ND	0.500	ug/L								
1,1,1-Trichloroethane	ND	0.500	"								
1,1,2,2-Tetrachloroethane	ND	0.500	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.500	"								
1,1,2-Trichloroethane	ND	0.500	"								
1,1-Dichloroethane	ND	0.500	"								
1,1-Dichloroethylene	ND	0.500	"								
1,2,3-Trichlorobenzene	ND	0.500	"								
1,2,3-Trichloropropane	ND	0.500	"								
1,2,4-Trichlorobenzene	ND	0.500	"								
1,2,4-Trimethylbenzene	ND	0.500	"								
1,2-Dibromo-3-chloropropane	ND	0.500	"								
1,2-Dibromoethane	ND	0.500	"								
1,2-Dichlorobenzene	ND	0.500	"								
1,2-Dichloroethane	ND	0.500	"								
1,2-Dichloropropane	ND	0.500	"								
1,3,5-Trimethylbenzene	ND	0.500	"								
1,3-Dichlorobenzene	ND	0.500	"								
1,3-Dichloropropane	ND	0.500	"								
1,4-Dichlorobenzene	ND	0.500	"								
1,4-Dioxane	ND	80.0	"								
2-Butanone	ND	0.500	"								
2-Hexanone	ND	0.500	"								
4-Methyl-2-pentanone	ND	0.500	"								
Acetone	ND	2.00	"								
Acrolein	ND	0.500	"								
Acrylonitrile	ND	0.500	"								
Benzene	ND	0.500	"								
Bromochloromethane	ND	0.500	"								
Bromodichloromethane	ND	0.500	"								
Bromoform	ND	0.500	"								
Bromomethane	ND	0.500	"								
Carbon disulfide	ND	0.500	"								
Carbon tetrachloride	ND	0.500	"								
Chlorobenzene	ND	0.500	"								
Chloroethane	ND	0.500	"								
Chloroform	ND	0.500	"								
Chloromethane	ND	0.500	"								
cis-1,2-Dichloroethylene	ND	0.500	"								
cis-1,3-Dichloropropylene	ND	0.500	"								
Cyclohexane	ND	0.500	"								
Dibromochloromethane	ND	0.500	"								
Dibromomethane	ND	0.500	"								
Dichlorodifluoromethane	ND	0.500	"								
Ethyl Benzene	ND	0.500	"								
Hexachlorobutadiene	ND	0.500	"								
Isopropylbenzene	ND	0.500	"								
Methyl acetate	ND	0.500	"								
Methyl tert-butyl ether (MTBE)	ND	0.500	"								
Methylcyclohexane	ND	0.500	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK20828 - EPA 5030B											
Blank (BK20828-BLK1)								Prepared & Analyzed: 11/15/2022			
Methylene chloride	ND	2.00	ug/L								
Naphthalene	ND	2.00	"								
n-Butylbenzene	ND	0.500	"								
n-Propylbenzene	ND	0.500	"								
o-Xylene	ND	0.500	"								
p- & m- Xylenes	ND	1.00	"								
p-Diethylbenzene	ND	0.500	"								
p-Ethyltoluene	ND	0.500	"								
p-Isopropyltoluene	ND	0.500	"								
sec-Butylbenzene	ND	0.500	"								
Styrene	ND	0.500	"								
tert-Butyl alcohol (TBA)	ND	1.00	"								
tert-Butylbenzene	ND	0.500	"								
Tetrachloroethylene	ND	0.500	"								
Toluene	ND	0.500	"								
trans-1,2-Dichloroethylene	ND	0.500	"								
trans-1,3-Dichloropropylene	ND	0.500	"								
Trichloroethylene	ND	0.500	"								
Trichlorofluoromethane	ND	0.500	"								
Vinyl Chloride	ND	0.500	"								
Xylenes, Total	ND	1.50	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*12.4*		*"*	*10.0*		*124*	*69-130*				
Surrogate: SURR: Toluene-d8	*8.46*		*"*	*10.0*		*84.6*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.3*		*"*	*10.0*		*103*	*79-122*				
LCS (BK20828-BS1)								Prepared & Analyzed: 11/15/2022			
1,1,1,2-Tetrachloroethane	8.54		ug/L	10.0		85.4	82-126				
1,1,1-Trichloroethane	9.53		"	10.0		95.3	78-136				
1,1,2,2-Tetrachloroethane	8.74		"	10.0		87.4	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	7.87		"	10.0		78.7	54-165				
1,1,2-Trichloroethane	8.20		"	10.0		82.0	82-123				
1,1-Dichloroethane	8.83		"	10.0		88.3	82-129				
1,1-Dichloroethylene	8.94		"	10.0		89.4	68-138				
1,2,3-Trichlorobenzene	5.52		"	10.0		55.2	76-136	Low Bias			
1,2,3-Trichloropropane	8.61		"	10.0		86.1	77-128				
1,2,4-Trichlorobenzene	10.3		"	10.0		103	76-137				
1,2,4-Trimethylbenzene	9.69		"	10.0		96.9	82-132				
1,2-Dibromo-3-chloropropane	7.97		"	10.0		79.7	45-147				
1,2-Dibromoethane	8.39		"	10.0		83.9	83-124				
1,2-Dichlorobenzene	8.98		"	10.0		89.8	79-123				
1,2-Dichloroethane	8.93		"	10.0		89.3	73-132				
1,2-Dichloropropane	9.65		"	10.0		96.5	78-126				
1,3,5-Trimethylbenzene	9.91		"	10.0		99.1	80-131				
1,3-Dichlorobenzene	9.38		"	10.0		93.8	86-122				
1,3-Dichloropropane	8.77		"	10.0		87.7	81-125				
1,4-Dichlorobenzene	9.44		"	10.0		94.4	85-124				
1,4-Dioxane	214		"	210		102	10-349				
2-Butanone	7.96		"	10.0		79.6	49-152				
2-Hexanone	8.22		"	10.0		82.2	51-146				
4-Methyl-2-pentanone	8.56		"	10.0		85.6	57-145				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK20828 - EPA 5030B											
LCS (BK20828-BS1)								Prepared & Analyzed: 11/15/2022			
Acetone	7.35		ug/L	10.0		73.5	14-150				
Acrolein	5.02		"	10.0		50.2	10-153				
Acrylonitrile	7.57		"	10.0		75.7	51-150				
Benzene	8.91		"	10.0		89.1	85-126				
Bromochloromethane	8.13		"	10.0		81.3	77-128				
Bromodichloromethane	9.15		"	10.0		91.5	79-128				
Bromoform	7.82		"	10.0		78.2	78-133				
Bromomethane	8.48		"	10.0		84.8	43-168				
Carbon disulfide	8.49		"	10.0		84.9	68-146				
Carbon tetrachloride	9.64		"	10.0		96.4	77-141				
Chlorobenzene	9.35		"	10.0		93.5	88-120				
Chloroethane	8.82		"	10.0		88.2	65-136				
Chloroform	8.88		"	10.0		88.8	82-128				
Chloromethane	10.3		"	10.0		103	43-155				
cis-1,2-Dichloroethylene	9.08		"	10.0		90.8	83-129				
cis-1,3-Dichloropropylene	8.91		"	10.0		89.1	80-131				
Cyclohexane	4.67		"	10.0		46.7	63-149	Low Bias			
Dibromochloromethane	8.07		"	10.0		80.7	80-130				
Dibromomethane	8.87		"	10.0		88.7	72-134				
Dichlorodifluoromethane	11.5		"	10.0		115	44-144				
Ethyl Benzene	9.80		"	10.0		98.0	80-131				
Hexachlorobutadiene	4.91		"	10.0		49.1	67-146	Low Bias			
Isopropylbenzene	10.1		"	10.0		101	76-140				
Methyl acetate	7.31		"	10.0		73.1	51-139				
Methyl tert-butyl ether (MTBE)	6.81		"	10.0		68.1	76-135	Low Bias			
Methylcyclohexane	9.90		"	10.0		99.0	72-143				
Methylene chloride	8.69		"	10.0		86.9	55-137				
Naphthalene	6.87		"	10.0		68.7	70-147	Low Bias			
n-Butylbenzene	10.5		"	10.0		105	79-132				
n-Propylbenzene	10.5		"	10.0		105	78-133				
o-Xylene	9.47		"	10.0		94.7	78-130				
p- & m- Xylenes	19.7		"	20.0		98.6	77-133				
p-Diethylbenzene	10.0		"	10.0		100	84-134				
p-Ethyltoluene	11.4		"	10.0		114	88-129				
p-Isopropyltoluene	9.84		"	10.0		98.4	81-136				
sec-Butylbenzene	10.1		"	10.0		101	79-137				
Styrene	9.07		"	10.0		90.7	67-132				
tert-Butyl alcohol (TBA)	26.9		"	50.0		53.8	25-162				
tert-Butylbenzene	7.99		"	10.0		79.9	77-138				
Tetrachloroethylene	9.00		"	10.0		90.0	82-131				
Toluene	9.59		"	10.0		95.9	80-127				
trans-1,2-Dichloroethylene	8.73		"	10.0		87.3	80-132				
trans-1,3-Dichloropropylene	8.77		"	10.0		87.7	78-131				
Trichloroethylene	10.1		"	10.0		101	82-128				
Trichlorofluoromethane	9.83		"	10.0		98.3	67-139				
Vinyl Chloride	11.3		"	10.0		113	58-145				
Surrogate: SURR: 1,2-Dichloroethane-d4	*9.75*		*"*	*10.0*		*97.5*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.5*		*"*	*10.0*		*105*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.4*		*"*	*10.0*		*104*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK20828 - EPA 5030B											
LCS Dup (BK20828-BSD1)								Prepared & Analyzed: 11/15/2022			
1,1,1,2-Tetrachloroethane	8.88		ug/L	10.0		88.8	82-126		3.90	30	
1,1,1-Trichloroethane	9.03		"	10.0		90.3	78-136		5.39	30	
1,1,2,2-Tetrachloroethane	7.97		"	10.0		79.7	76-129		9.22	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	9.37		"	10.0		93.7	54-165		17.4	30	
1,1,2-Trichloroethane	8.73		"	10.0		87.3	82-123		6.26	30	
1,1-Dichloroethane	8.63		"	10.0		86.3	82-129		2.29	30	
1,1-Dichloroethylene	9.66		"	10.0		96.6	68-138		7.74	30	
1,2,3-Trichlorobenzene	5.96		"	10.0		59.6	76-136	Low Bias	7.67	30	
1,2,3-Trichloropropane	8.14		"	10.0		81.4	77-128		5.61	30	
1,2,4-Trichlorobenzene	10.8		"	10.0		108	76-137		5.11	30	
1,2,4-Trimethylbenzene	8.83		"	10.0		88.3	82-132		9.29	30	
1,2-Dibromo-3-chloropropane	7.77		"	10.0		77.7	45-147		2.54	30	
1,2-Dibromoethane	8.82		"	10.0		88.2	83-124		5.00	30	
1,2-Dichlorobenzene	8.69		"	10.0		86.9	79-123		3.28	30	
1,2-Dichloroethane	9.01		"	10.0		90.1	73-132		0.892	30	
1,2-Dichloropropane	9.92		"	10.0		99.2	78-126		2.76	30	
1,3,5-Trimethylbenzene	9.02		"	10.0		90.2	80-131		9.40	30	
1,3-Dichlorobenzene	8.72		"	10.0		87.2	86-122		7.29	30	
1,3-Dichloropropane	9.27		"	10.0		92.7	81-125		5.54	30	
1,4-Dichlorobenzene	8.80		"	10.0		88.0	85-124		7.02	30	
1,4-Dioxane	217		"	210		104	10-349		1.40	30	
2-Butanone	8.00		"	10.0		80.0	49-152		0.501	30	
2-Hexanone	9.01		"	10.0		90.1	51-146		9.17	30	
4-Methyl-2-pentanone	9.34		"	10.0		93.4	57-145		8.72	30	
Acetone	8.69		"	10.0		86.9	14-150		16.7	30	
Acrolein	5.84		"	10.0		58.4	10-153		15.1	30	
Acrylonitrile	8.72		"	10.0		87.2	51-150		14.1	30	
Benzene	8.69		"	10.0		86.9	85-126		2.50	30	
Bromochloromethane	8.25		"	10.0		82.5	77-128		1.47	30	
Bromodichloromethane	9.39		"	10.0		93.9	79-128		2.59	30	
Bromoform	8.17		"	10.0		81.7	78-133		4.38	30	
Bromomethane	8.28		"	10.0		82.8	43-168		2.39	30	
Carbon disulfide	9.83		"	10.0		98.3	68-146		14.6	30	
Carbon tetrachloride	9.11		"	10.0		91.1	77-141		5.65	30	
Chlorobenzene	9.21		"	10.0		92.1	88-120		1.51	30	
Chloroethane	9.94		"	10.0		99.4	65-136		11.9	30	
Chloroform	8.66		"	10.0		86.6	82-128		2.51	30	
Chloromethane	9.13		"	10.0		91.3	43-155		11.9	30	
cis-1,2-Dichloroethylene	8.81		"	10.0		88.1	83-129		3.02	30	
cis-1,3-Dichloropropylene	9.23		"	10.0		92.3	80-131		3.53	30	
Cyclohexane	4.40		"	10.0		44.0	63-149	Low Bias	5.95	30	
Dibromochloromethane	8.58		"	10.0		85.8	80-130		6.13	30	
Dibromomethane	9.27		"	10.0		92.7	72-134		4.41	30	
Dichlorodifluoromethane	10.3		"	10.0		103	44-144		10.5	30	
Ethyl Benzene	9.54		"	10.0		95.4	80-131		2.69	30	
Hexachlorobutadiene	5.53		"	10.0		55.3	67-146	Low Bias	11.9	30	
Isopropylbenzene	7.99		"	10.0		79.9	76-140		23.0	30	
Methyl acetate	9.07		"	10.0		90.7	51-139		21.5	30	
Methyl tert-butyl ether (MTBE)	7.69		"	10.0		76.9	76-135		12.1	30	
Methylcyclohexane	9.79		"	10.0		97.9	72-143		1.12	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK20828 - EPA 5030B											
LCS Dup (BK20828-BSD1)								Prepared & Analyzed: 11/15/2022			
Methylene chloride	10.1		ug/L	10.0		101	55-137		14.8	30	
Naphthalene	6.98		"	10.0		69.8	70-147	Low Bias	1.59	30	
n-Butylbenzene	9.91		"	10.0		99.1	79-132		5.40	30	
n-Propylbenzene	9.09		"	10.0		90.9	78-133		14.3	30	
o-Xylene	9.53		"	10.0		95.3	78-130		0.632	30	
p- & m- Xylenes	19.0		"	20.0		95.2	77-133		3.56	30	
p-Diethylbenzene	9.52		"	10.0		95.2	84-134		5.22	30	
p-Ethyltoluene	10.2		"	10.0		102	88-129		11.5	30	
p-Isopropyltoluene	9.14		"	10.0		91.4	81-136		7.38	30	
sec-Butylbenzene	9.21		"	10.0		92.1	79-137		9.12	30	
Styrene	9.47		"	10.0		94.7	67-132		4.32	30	
tert-Butyl alcohol (TBA)	29.6		"	50.0		59.1	25-162		9.39	30	
tert-Butylbenzene	7.27		"	10.0		72.7	77-138	Low Bias	9.44	30	
Tetrachloroethylene	8.77		"	10.0		87.7	82-131		2.59	30	
Toluene	9.55		"	10.0		95.5	80-127		0.418	30	
trans-1,2-Dichloroethylene	9.11		"	10.0		91.1	80-132		4.26	30	
trans-1,3-Dichloropropylene	9.23		"	10.0		92.3	78-131		5.11	30	
Trichloroethylene	9.74		"	10.0		97.4	82-128		3.83	30	
Trichlorofluoromethane	9.38		"	10.0		93.8	67-139		4.69	30	
Vinyl Chloride	9.83		"	10.0		98.3	58-145		13.6	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*10.1*		*"*	*10.0*		*101*	*69-130*				
Surrogate: SURR: Toluene-d8	*10.7*		*"*	*10.0*		*107*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*8.87*		*"*	*10.0*		*88.7*	*79-122*				
Batch BK20830 - EPA 5030B											
Blank (BK20830-BLK1)								Prepared & Analyzed: 11/15/2022			
1,1,1,2-Tetrachloroethane	ND	0.500	ug/L								
1,1,1-Trichloroethane	ND	0.500	"								
1,1,2,2-Tetrachloroethane	ND	0.500	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.500	"								
1,1,2-Trichloroethane	ND	0.500	"								
1,1-Dichloroethane	ND	0.500	"								
1,1-Dichloroethylene	ND	0.500	"								
1,2,3-Trichlorobenzene	ND	0.500	"								
1,2,3-Trichloropropane	ND	0.500	"								
1,2,4-Trichlorobenzene	ND	0.500	"								
1,2,4-Trimethylbenzene	ND	0.500	"								
1,2-Dibromo-3-chloropropane	ND	0.500	"								
1,2-Dibromoethane	ND	0.500	"								
1,2-Dichlorobenzene	ND	0.500	"								
1,2-Dichloroethane	ND	0.500	"								
1,2-Dichloropropane	ND	0.500	"								
1,3,5-Trimethylbenzene	ND	0.500	"								
1,3-Dichlorobenzene	ND	0.500	"								
1,3-Dichloropropane	ND	0.500	"								
1,4-Dichlorobenzene	ND	0.500	"								
1,4-Dioxane	ND	80.0	"								
2-Butanone	ND	0.500	"								
2-Hexanone	ND	0.500	"								
4-Methyl-2-pentanone	ND	0.500	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK20830 - EPA 5030B											
Blank (BK20830-BLK1)									Prepared & Analyzed: 11/15/2022		
Acetone	ND	2.00	ug/L								
Acrolein	ND	0.500	"								
Acrylonitrile	ND	0.500	"								
Benzene	ND	0.500	"								
Bromochloromethane	ND	0.500	"								
Bromodichloromethane	ND	0.500	"								
Bromoform	ND	0.500	"								
Bromomethane	ND	0.500	"								
Carbon disulfide	ND	0.500	"								
Carbon tetrachloride	ND	0.500	"								
Chlorobenzene	ND	0.500	"								
Chloroethane	ND	0.500	"								
Chloroform	ND	0.500	"								
Chloromethane	ND	0.500	"								
cis-1,2-Dichloroethylene	ND	0.500	"								
cis-1,3-Dichloropropylene	ND	0.500	"								
Cyclohexane	ND	0.500	"								
Dibromochloromethane	ND	0.500	"								
Dibromomethane	ND	0.500	"								
Dichlorodifluoromethane	ND	0.500	"								
Ethyl Benzene	ND	0.500	"								
Hexachlorobutadiene	ND	0.500	"								
Isopropylbenzene	ND	0.500	"								
Methyl acetate	ND	0.500	"								
Methyl tert-butyl ether (MTBE)	ND	0.500	"								
Methylcyclohexane	ND	0.500	"								
Methylene chloride	ND	2.00	"								
Naphthalene	ND	2.00	"								
n-Butylbenzene	ND	0.500	"								
n-Propylbenzene	ND	0.500	"								
o-Xylene	ND	0.500	"								
p- & m- Xylenes	ND	1.00	"								
p-Diethylbenzene	ND	0.500	"								
p-Ethyltoluene	ND	0.500	"								
p-Isopropyltoluene	ND	0.500	"								
sec-Butylbenzene	ND	0.500	"								
Styrene	ND	0.500	"								
tert-Butyl alcohol (TBA)	ND	1.00	"								
tert-Butylbenzene	ND	0.500	"								
Tetrachloroethylene	ND	0.500	"								
Toluene	ND	0.500	"								
trans-1,2-Dichloroethylene	ND	0.500	"								
trans-1,3-Dichloropropylene	ND	0.500	"								
Trichloroethylene	ND	0.500	"								
Trichlorofluoromethane	ND	0.500	"								
Vinyl Chloride	ND	0.500	"								
Xylenes, Total	ND	1.50	"								
Surrogate: SURR: 1,2-Dichloroethane-d4	*12.7*		*"*	*10.0*		*127*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.84*		*"*	*10.0*		*98.4*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*12.2*		*"*	*10.0*		*122*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK20830 - EPA 5030B											
LCS (BK20830-BS1)								Prepared & Analyzed: 11/15/2022			
1,1,1,2-Tetrachloroethane	10.1		ug/L	10.0		101	82-126				
1,1,1-Trichloroethane	12.1		"	10.0		121	78-136				
1,1,2,2-Tetrachloroethane	9.98		"	10.0		99.8	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.1		"	10.0		101	54-165				
1,1,2-Trichloroethane	9.07		"	10.0		90.7	82-123				
1,1-Dichloroethane	9.23		"	10.0		92.3	82-129				
1,1-Dichloroethylene	10.8		"	10.0		108	68-138				
1,2,3-Trichlorobenzene	8.54		"	10.0		85.4	76-136				
1,2,3-Trichloropropane	11.4		"	10.0		114	77-128				
1,2,4-Trichlorobenzene	8.71		"	10.0		87.1	76-137				
1,2,4-Trimethylbenzene	11.4		"	10.0		114	82-132				
1,2-Dibromo-3-chloropropane	11.0		"	10.0		110	45-147				
1,2-Dibromoethane	8.90		"	10.0		89.0	83-124				
1,2-Dichlorobenzene	10.3		"	10.0		103	79-123				
1,2-Dichloroethane	11.7		"	10.0		117	73-132				
1,2-Dichloropropane	8.76		"	10.0		87.6	78-126				
1,3,5-Trimethylbenzene	11.3		"	10.0		113	80-131				
1,3-Dichlorobenzene	9.24		"	10.0		92.4	86-122				
1,3-Dichloropropane	8.97		"	10.0		89.7	81-125				
1,4-Dichlorobenzene	10.6		"	10.0		106	85-124				
1,4-Dioxane	240		"	210		114	10-349				
2-Butanone	10.8		"	10.0		108	49-152				
2-Hexanone	8.63		"	10.0		86.3	51-146				
4-Methyl-2-pentanone	7.95		"	10.0		79.5	57-145				
Acetone	12.3		"	10.0		123	14-150				
Acrolein	5.64		"	10.0		56.4	10-153				
Acrylonitrile	7.72		"	10.0		77.2	51-150				
Benzene	8.50		"	10.0		85.0	85-126				
Bromochloromethane	9.98		"	10.0		99.8	77-128				
Bromodichloromethane	10.6		"	10.0		106	79-128				
Bromoform	10.2		"	10.0		102	78-133				
Bromomethane	16.3		"	10.0		163	43-168				
Carbon disulfide	9.24		"	10.0		92.4	68-146				
Carbon tetrachloride	12.3		"	10.0		123	77-141				
Chlorobenzene	9.33		"	10.0		93.3	88-120				
Chloroethane	13.9		"	10.0		139	65-136	High Bias			
Chloroform	10.3		"	10.0		103	82-128				
Chloromethane	14.8		"	10.0		148	43-155				
cis-1,2-Dichloroethylene	10.0		"	10.0		100	83-129				
cis-1,3-Dichloropropylene	9.38		"	10.0		93.8	80-131				
Cyclohexane	3.66		"	10.0		36.6	63-149	Low Bias			
Dibromochloromethane	9.65		"	10.0		96.5	80-130				
Dibromomethane	9.77		"	10.0		97.7	72-134				
Dichlorodifluoromethane	16.9		"	10.0		169	44-144	High Bias			
Ethyl Benzene	10.1		"	10.0		101	80-131				
Hexachlorobutadiene	8.54		"	10.0		85.4	67-146				
Isopropylbenzene	10.8		"	10.0		108	76-140				
Methyl acetate	8.84		"	10.0		88.4	51-139				
Methyl tert-butyl ether (MTBE)	8.81		"	10.0		88.1	76-135				
Methylcyclohexane	8.57		"	10.0		85.7	72-143				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK20830 - EPA 5030B											
LCS (BK20830-BS1)								Prepared & Analyzed: 11/15/2022			
Methylene chloride	10.8		ug/L	10.0		108	55-137				
Naphthalene	8.50		"	10.0		85.0	70-147				
n-Butylbenzene	10.2		"	10.0		102	79-132				
n-Propylbenzene	11.3		"	10.0		113	78-133				
o-Xylene	10.4		"	10.0		104	78-130				
p- & m- Xylenes	20.9		"	20.0		104	77-133				
p-Diethylbenzene	9.89		"	10.0		98.9	84-134				
p-Ethyltoluene	11.8		"	10.0		118	88-129				
p-Isopropyltoluene	9.51		"	10.0		95.1	81-136				
sec-Butylbenzene	9.28		"	10.0		92.8	79-137				
Styrene	9.55		"	10.0		95.5	67-132				
tert-Butyl alcohol (TBA)	44.2		"	50.0		88.5	25-162				
tert-Butylbenzene	8.34		"	10.0		83.4	77-138				
Tetrachloroethylene	9.25		"	10.0		92.5	82-131				
Toluene	9.86		"	10.0		98.6	80-127				
trans-1,2-Dichloroethylene	9.91		"	10.0		99.1	80-132				
trans-1,3-Dichloropropylene	10.0		"	10.0		100	78-131				
Trichloroethylene	9.76		"	10.0		97.6	82-128				
Trichlorofluoromethane	15.6		"	10.0		156	67-139	High Bias			
Vinyl Chloride	15.4		"	10.0		154	58-145	High Bias			
Surrogate: SURR: 1,2-Dichloroethane-d4	*12.4*		*"*	*10.0*		*124*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.82*		*"*	*10.0*		*98.2*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.8*		*"*	*10.0*		*108*	*79-122*				
LCS Dup (BK20830-BSD1)								Prepared & Analyzed: 11/15/2022			
1,1,1,2-Tetrachloroethane	10.6		ug/L	10.0		106	82-126		4.16	30	
1,1,1-Trichloroethane	12.4		"	10.0		124	78-136		2.69	30	
1,1,2,2-Tetrachloroethane	9.86		"	10.0		98.6	76-129		1.21	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10.5		"	10.0		105	54-165		3.59	30	
1,1,2-Trichloroethane	9.10		"	10.0		91.0	82-123		0.330	30	
1,1-Dichloroethane	9.34		"	10.0		93.4	82-129		1.18	30	
1,1-Dichloroethylene	11.1		"	10.0		111	68-138		2.64	30	
1,2,3-Trichlorobenzene	8.69		"	10.0		86.9	76-136		1.74	30	
1,2,3-Trichloropropane	11.0		"	10.0		110	77-128		3.75	30	
1,2,4-Trichlorobenzene	9.12		"	10.0		91.2	76-137		4.60	30	
1,2,4-Trimethylbenzene	12.1		"	10.0		121	82-132		5.70	30	
1,2-Dibromo-3-chloropropane	10.4		"	10.0		104	45-147		5.62	30	
1,2-Dibromoethane	9.12		"	10.0		91.2	83-124		2.44	30	
1,2-Dichlorobenzene	11.0		"	10.0		110	79-123		6.21	30	
1,2-Dichloroethane	11.4		"	10.0		114	73-132		3.04	30	
1,2-Dichloropropane	9.22		"	10.0		92.2	78-126		5.12	30	
1,3,5-Trimethylbenzene	12.1		"	10.0		121	80-131		6.58	30	
1,3-Dichlorobenzene	9.67		"	10.0		96.7	86-122		4.55	30	
1,3-Dichloropropane	9.17		"	10.0		91.7	81-125		2.21	30	
1,4-Dichlorobenzene	11.2		"	10.0		112	85-124		5.61	30	
1,4-Dioxane	218		"	210		104	10-349		9.70	30	
2-Butanone	11.1		"	10.0		111	49-152		3.28	30	
2-Hexanone	8.21		"	10.0		82.1	51-146		4.99	30	
4-Methyl-2-pentanone	7.77		"	10.0		77.7	57-145		2.29	30	
Acetone	11.5		"	10.0		115	14-150		6.90	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK20830 - EPA 5030B											
LCS Dup (BK20830-BSD1)								Prepared & Analyzed: 11/15/2022			
Acrolein	5.66		ug/L	10.0		56.6	10-153		0.354	30	
Acrylonitrile	7.62		"	10.0		76.2	51-150		1.30	30	
Benzene	8.98		"	10.0		89.8	85-126		5.49	30	
Bromochloromethane	10.1		"	10.0		101	77-128		0.898	30	
Bromodichloromethane	11.0		"	10.0		110	79-128		3.62	30	
Bromoform	9.90		"	10.0		99.0	78-133		2.89	30	
Bromomethane	16.3		"	10.0		163	43-168		0.0612	30	
Carbon disulfide	9.66		"	10.0		96.6	68-146		4.44	30	
Carbon tetrachloride	12.9		"	10.0		129	77-141		4.77	30	
Chlorobenzene	9.83		"	10.0		98.3	88-120		5.22	30	
Chloroethane	14.2		"	10.0		142	65-136	High Bias	2.20	30	
Chloroform	10.6		"	10.0		106	82-128		2.97	30	
Chloromethane	15.4		"	10.0		154	43-155		3.44	30	
cis-1,2-Dichloroethylene	10.5		"	10.0		105	83-129		4.29	30	
cis-1,3-Dichloropropylene	9.84		"	10.0		98.4	80-131		4.79	30	
Cyclohexane	3.94		"	10.0		39.4	63-149	Low Bias	7.37	30	
Dibromochloromethane	9.81		"	10.0		98.1	80-130		1.64	30	
Dibromomethane	10.3		"	10.0		103	72-134		5.28	30	
Dichlorodifluoromethane	17.1		"	10.0		171	44-144	High Bias	1.47	30	
Ethyl Benzene	10.7		"	10.0		107	80-131		5.77	30	
Hexachlorobutadiene	8.63		"	10.0		86.3	67-146		1.05	30	
Isopropylbenzene	11.9		"	10.0		119	76-140		9.78	30	
Methyl acetate	8.24		"	10.0		82.4	51-139		7.03	30	
Methyl tert-butyl ether (MTBE)	8.63		"	10.0		86.3	76-135		2.06	30	
Methylcyclohexane	9.23		"	10.0		92.3	72-143		7.42	30	
Methylene chloride	11.0		"	10.0		110	55-137		1.28	30	
Naphthalene	8.12		"	10.0		81.2	70-147		4.57	30	
n-Butylbenzene	10.9		"	10.0		109	79-132		6.37	30	
n-Propylbenzene	12.5		"	10.0		125	78-133		9.92	30	
o-Xylene	11.0		"	10.0		110	78-130		5.52	30	
p- & m- Xylenes	22.0		"	20.0		110	77-133		5.27	30	
p-Diethylbenzene	10.5		"	10.0		105	84-134		5.98	30	
p-Ethyltoluene	12.8		"	10.0		128	88-129		8.52	30	
p-Isopropyltoluene	10.3		"	10.0		103	81-136		7.88	30	
sec-Butylbenzene	10.2		"	10.0		102	79-137		9.35	30	
Styrene	10.0		"	10.0		100	67-132		5.10	30	
tert-Butyl alcohol (TBA)	37.1		"	50.0		74.2	25-162		17.6	30	
tert-Butylbenzene	9.05		"	10.0		90.5	77-138		8.17	30	
Tetrachloroethylene	9.93		"	10.0		99.3	82-131		7.09	30	
Toluene	10.7		"	10.0		107	80-127		7.80	30	
trans-1,2-Dichloroethylene	10.3		"	10.0		103	80-132		4.05	30	
trans-1,3-Dichloropropylene	10.4		"	10.0		104	78-131		3.52	30	
Trichloroethylene	10.5		"	10.0		105	82-128		6.92	30	
Trichlorofluoromethane	15.8		"	10.0		158	67-139	High Bias	1.59	30	
Vinyl Chloride	15.8		"	10.0		158	58-145	High Bias	2.50	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*11.7*		*"*	*10.0*		*117*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.89*		*"*	*10.0*		*98.9*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*11.1*		*"*	*10.0*		*111*	*79-122*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Batch BK20830 - EPA 5030B

Matrix Spike (BK20830-MS1) *Source sample: 22K0179-06 (Matrix Spike) Prepared & Analyzed: 11/15/2022

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
1,1,1,2-Tetrachloroethane	11.3		ug/L	10.0	0.00	113	45-161				
1,1,1-Trichloroethane	14.2		"	10.0	0.00	142	70-146				
1,1,2,2-Tetrachloroethane	10.2		"	10.0	0.00	102	74-121				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.6		"	10.0	0.00	116	21-217				
1,1,2-Trichloroethane	10.3		"	10.0	0.00	103	59-146				
1,1-Dichloroethane	10.2		"	10.0	0.00	102	54-146				
1,1-Dichloroethylene	12.8		"	10.0	0.00	128	44-165				
1,2,3-Trichlorobenzene	7.66		"	10.0	0.00	76.6	40-161				
1,2,3-Trichloropropane	11.2		"	10.0	0.00	112	74-127				
1,2,4-Trichlorobenzene	7.84		"	10.0	0.00	78.4	41-161				
1,2,4-Trimethylbenzene	11.0		"	10.0	0.00	110	72-129				
1,2-Dibromo-3-chloropropane	10.9		"	10.0	0.00	109	31-151				
1,2-Dibromoethane	9.98		"	10.0	0.00	99.8	75-125				
1,2-Dichlorobenzene	10.3		"	10.0	0.00	103	63-122				
1,2-Dichloroethane	13.8		"	10.0	0.00	138	68-131	High Bias			
1,2-Dichloropropane	9.72		"	10.0	0.00	97.2	77-121				
1,3,5-Trimethylbenzene	11.0		"	10.0	0.00	110	69-126				
1,3-Dichlorobenzene	8.73		"	10.0	0.00	87.3	74-119				
1,3-Dichloropropane	10.2		"	10.0	0.00	102	77-119				
1,4-Dichlorobenzene	10.2		"	10.0	0.00	102	70-124				
1,4-Dioxane	262		"	210	0.00	125	10-310				
2-Butanone	12.4		"	10.0	0.00	124	10-193				
2-Hexanone	10.6		"	10.0	0.00	106	53-133				
4-Methyl-2-pentanone	8.83		"	10.0	0.00	88.3	38-150				
Acetone	25.3		"	10.0	10.4	149	13-149				
Acrolein	5.73		"	10.0	0.00	57.3	10-195				
Acrylonitrile	8.21		"	10.0	0.00	82.1	37-165				
Benzene	9.19		"	10.0	0.00	91.9	38-155				
Bromochloromethane	11.2		"	10.0	0.00	112	75-121				
Bromodichloromethane	12.2		"	10.0	0.00	122	70-129				
Bromoform	11.6		"	10.0	0.00	116	66-136				
Bromomethane	14.8		"	10.0	0.00	148	30-158				
Carbon disulfide	9.97		"	10.0	0.00	99.7	10-138				
Carbon tetrachloride	15.1		"	10.0	0.00	151	71-146	High Bias			
Chlorobenzene	10.0		"	10.0	0.00	100	81-117				
Chloroethane	15.6		"	10.0	0.00	156	51-145	High Bias			
Chloroform	13.4		"	10.0	1.48	119	80-124				
Chloromethane	14.7		"	10.0	0.00	147	16-163				
cis-1,2-Dichloroethylene	11.7		"	10.0	0.270	114	76-125				
cis-1,3-Dichloropropylene	10.3		"	10.0	0.00	103	58-131				
Cyclohexane	4.02		"	10.0	0.00	40.2	70-130	Low Bias			
Dibromochloromethane	10.9		"	10.0	0.00	109	71-129				
Dibromomethane	11.4		"	10.0	0.00	114	76-120				
Dichlorodifluoromethane	19.6		"	10.0	0.00	196	30-147	High Bias			
Ethyl Benzene	11.0		"	10.0	0.00	110	72-128				
Hexachlorobutadiene	8.32		"	10.0	0.00	83.2	34-166				
Isopropylbenzene	10.5		"	10.0	0.00	105	66-139				
Methyl acetate	9.45		"	10.0	0.00	94.5	10-200				
Methyl tert-butyl ether (MTBE)	10.1		"	10.0	0.00	101	75-128				
Methylcyclohexane	9.28		"	10.0	0.00	92.8	70-130				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK20830 - EPA 5030B											
Matrix Spike (BK20830-MS1)	*Source sample: 22K0179-06 (Matrix Spike)							Prepared & Analyzed: 11/15/2022			
Methylene chloride	12.4		ug/L	10.0	0.00	124	57-128				
Naphthalene	8.09		"	10.0	0.00	80.9	39-158				
n-Butylbenzene	9.87		"	10.0	0.00	98.7	61-138				
n-Propylbenzene	10.9		"	10.0	0.00	109	66-134				
o-Xylene	11.5		"	10.0	0.00	115	69-126				
p- & m- Xylenes	22.7		"	20.0	0.00	113	67-130				
p-Diethylbenzene	9.50		"	10.0	0.00	95.0	52-150				
p-Ethyltoluene	11.9		"	10.0	0.00	119	76-127				
p-Isopropyltoluene	8.99		"	10.0	0.00	89.9	64-137				
sec-Butylbenzene	8.96		"	10.0	0.00	89.6	53-155				
Styrene	10.4		"	10.0	0.00	104	69-125				
tert-Butyl alcohol (TBA)	48.7		"	50.0	0.00	97.5	10-130				
tert-Butylbenzene	8.04		"	10.0	0.00	80.4	65-139				
Tetrachloroethylene	28.8		"	10.0	18.1	108	64-139				
Toluene	10.8		"	10.0	0.00	108	76-123				
trans-1,2-Dichloroethylene	11.2		"	10.0	0.00	112	79-131				
trans-1,3-Dichloropropylene	11.5		"	10.0	0.00	115	55-130				
Trichloroethylene	13.4		"	10.0	2.29	111	53-145				
Trichlorofluoromethane	20.0		"	10.0	0.00	200	61-142	High Bias			
Vinyl Chloride	17.0		"	10.0	0.00	170	31-165	High Bias			
Surrogate: SURR: 1,2-Dichloroethane-d4	*13.7*		*"*	*10.0*		*137*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.53*		*"*	*10.0*		*95.3*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.1*		*"*	*10.0*		*101*	*79-122*				
Matrix Spike Dup (BK20830-MSD1)	*Source sample: 22K0179-06 (Matrix Spike Dup)							Prepared & Analyzed: 11/15/2022			
1,1,1,2-Tetrachloroethane	12.1		ug/L	10.0	0.00	121	45-161		6.49	30	
1,1,1-Trichloroethane	14.5		"	10.0	0.00	145	70-146		1.88	30	
1,1,2,2-Tetrachloroethane	11.6		"	10.0	0.00	116	74-121		13.3	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	12.0		"	10.0	0.00	120	21-217		2.63	30	
1,1,2-Trichloroethane	10.6		"	10.0	0.00	106	59-146		2.68	30	
1,1-Dichloroethane	10.6		"	10.0	0.00	106	54-146		3.75	30	
1,1-Dichloroethylene	13.2		"	10.0	0.00	132	44-165		3.53	30	
1,2,3-Trichlorobenzene	8.62		"	10.0	0.00	86.2	40-161		11.8	30	
1,2,3-Trichloropropane	12.5		"	10.0	0.00	125	74-127		10.9	30	
1,2,4-Trichlorobenzene	8.83		"	10.0	0.00	88.3	41-161		11.9	30	
1,2,4-Trimethylbenzene	11.8		"	10.0	0.00	118	72-129		7.47	30	
1,2-Dibromo-3-chloropropane	11.5		"	10.0	0.00	115	31-151		5.72	30	
1,2-Dibromoethane	10.6		"	10.0	0.00	106	75-125		6.12	30	
1,2-Dichlorobenzene	10.9		"	10.0	0.00	109	63-122		5.85	30	
1,2-Dichloroethane	14.2		"	10.0	0.00	142	68-131	High Bias	2.78	30	
1,2-Dichloropropane	9.96		"	10.0	0.00	99.6	77-121		2.44	30	
1,3,5-Trimethylbenzene	11.8		"	10.0	0.00	118	69-126		7.63	30	
1,3-Dichlorobenzene	9.52		"	10.0	0.00	95.2	74-119		8.66	30	
1,3-Dichloropropane	10.7		"	10.0	0.00	107	77-119		5.08	30	
1,4-Dichlorobenzene	10.8		"	10.0	0.00	108	70-124		6.57	30	
1,4-Dioxane	296		"	210	0.00	141	10-310		12.3	30	
2-Butanone	14.1		"	10.0	0.00	141	10-193		12.7	30	
2-Hexanone	10.5		"	10.0	0.00	105	53-133		0.856	30	
4-Methyl-2-pentanone	9.31		"	10.0	0.00	93.1	38-150		5.29	30	
Acetone	21.0		"	10.0	10.4	106	13-149		18.7	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK20830 - EPA 5030B											
Matrix Spike Dup (BK20830-MSD1)	*Source sample: 22K0179-06 (Matrix Spike Dup)								Prepared & Analyzed: 11/15/2022		
Acrolein	5.79		ug/L	10.0	0.00	57.9	10-195		1.04	30	
Acrylonitrile	8.33		"	10.0	0.00	83.3	37-165		1.45	30	
Benzene	9.75		"	10.0	0.00	97.5	38-155		5.91	30	
Bromochloromethane	11.6		"	10.0	0.00	116	75-121		4.21	30	
Bromodichloromethane	12.5		"	10.0	0.00	125	70-129		2.67	30	
Bromoform	12.2		"	10.0	0.00	122	66-136		4.88	30	
Bromomethane	18.8		"	10.0	0.00	188	30-158	High Bias	24.2	30	
Carbon disulfide	10.6		"	10.0	0.00	106	10-138		6.22	30	
Carbon tetrachloride	15.4		"	10.0	0.00	154	71-146	High Bias	1.91	30	
Chlorobenzene	10.7		"	10.0	0.00	107	81-117		6.18	30	
Chloroethane	17.2		"	10.0	0.00	172	51-145	High Bias	9.84	30	
Chloroform	13.6		"	10.0	1.48	121	80-124		1.41	30	
Chloromethane	17.5		"	10.0	0.00	175	16-163	High Bias	17.2	30	
cis-1,2-Dichloroethylene	12.0		"	10.0	0.270	117	76-125		2.36	30	
cis-1,3-Dichloropropylene	10.8		"	10.0	0.00	108	58-131		4.56	30	
Cyclohexane	4.24		"	10.0	0.00	42.4	70-130	Low Bias	5.33	30	
Dibromochloromethane	11.5		"	10.0	0.00	115	71-129		5.36	30	
Dibromomethane	11.7		"	10.0	0.00	117	76-120		2.08	30	
Dichlorodifluoromethane	20.1		"	10.0	0.00	201	30-147	High Bias	2.62	30	
Ethyl Benzene	11.5		"	10.0	0.00	115	72-128		4.70	30	
Hexachlorobutadiene	9.27		"	10.0	0.00	92.7	34-166		10.8	30	
Isopropylbenzene	11.2		"	10.0	0.00	112	66-139		5.72	30	
Methyl acetate	10.0		"	10.0	0.00	100	10-200		6.05	30	
Methyl tert-butyl ether (MTBE)	10.4		"	10.0	0.00	104	75-128		3.21	30	
Methylcyclohexane	9.59		"	10.0	0.00	95.9	70-130		3.29	30	
Methylene chloride	12.5		"	10.0	0.00	125	57-128		0.644	30	
Naphthalene	9.08		"	10.0	0.00	90.8	39-158		11.5	30	
n-Butylbenzene	10.4		"	10.0	0.00	104	61-138		5.33	30	
n-Propylbenzene	11.9		"	10.0	0.00	119	66-134		8.15	30	
o-Xylene	12.1		"	10.0	0.00	121	69-126		4.67	30	
p- & m- Xylenes	23.8		"	20.0	0.00	119	67-130		4.74	30	
p-Diethylbenzene	9.84		"	10.0	0.00	98.4	52-150		3.52	30	
p-Ethyltoluene	12.7		"	10.0	0.00	127	76-127		6.65	30	
p-Isopropyltoluene	9.65		"	10.0	0.00	96.5	64-137		7.08	30	
sec-Butylbenzene	9.68		"	10.0	0.00	96.8	53-155		7.73	30	
Styrene	11.0		"	10.0	0.00	110	69-125		5.59	30	
tert-Butyl alcohol (TBA)	52.6		"	50.0	0.00	105	10-130		7.56	30	
tert-Butylbenzene	8.68		"	10.0	0.00	86.8	65-139		7.66	30	
Tetrachloroethylene	30.8		"	10.0	18.1	128	64-139		6.74	30	
Toluene	11.4		"	10.0	0.00	114	76-123		6.03	30	
trans-1,2-Dichloroethylene	11.7		"	10.0	0.00	117	79-131		4.20	30	
trans-1,3-Dichloropropylene	12.0		"	10.0	0.00	120	55-130		3.84	30	
Trichloroethylene	14.0		"	10.0	2.29	117	53-145		4.16	30	
Trichlorofluoromethane	20.3		"	10.0	0.00	203	61-142	High Bias	1.49	30	
Vinyl Chloride	19.4		"	10.0	0.00	194	31-165	High Bias	13.6	30	
Surrogate: SURR: 1,2-Dichloroethane-d4	*13.6*		*"*	*10.0*		*136*	*69-130*				
Surrogate: SURR: Toluene-d8	*9.68*		*"*	*10.0*		*96.8*	*81-117*				
Surrogate: SURR: p-Bromofluorobenzene	*10.2*		*"*	*10.0*		*102*	*79-122*				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK20551 - EPA 3015A											
Blank (BK20551-BLK1)											Prepared: 11/09/2022 Analyzed: 11/10/2022
Aluminum	0.0597	0.0556	mg/L								
Barium	ND	0.0278	"								
Calcium	ND	0.0556	"								
Chromium	ND	0.00556	"								
Cobalt	ND	0.00444	"								
Copper	ND	0.0222	"								
Iron	ND	0.278	"								
Lead	ND	0.00556	"								
Magnesium	ND	0.0556	"								
Manganese	ND	0.00556	"								
Nickel	ND	0.0111	"								
Potassium	ND	0.0556	"								
Silver	ND	0.00556	"								
Sodium	ND	0.556	"								
Vanadium	ND	0.0111	"								
Zinc	ND	0.0278	"								
LCS (BK20551-BS1)											Prepared & Analyzed: 11/09/2022
Aluminum	1.94		ug/mL	2.00		97.2	80-120				
Barium	2.16		"	2.00		108	80-120				
Calcium	0.279		"	1.00		27.9	80-120	Low Bias			
Chromium	0.216		"	0.200		108	80-120				
Cobalt	0.531		"	0.500		106	80-120				
Copper	0.296		"	0.250		119	80-120				
Iron	1.09		"	1.00		109	80-120				
Lead	0.592		"	0.500		118	80-120				
Magnesium	1.05		"	1.00		105	80-120				
Manganese	0.548		"	0.500		110	80-120				
Nickel	0.546		"	0.500		109	80-120				
Potassium	0.643		"	1.00		64.3	80-120	Low Bias			
Silver	0.0424		"	0.0500		84.9	80-120				
Sodium	2.89		"	1.00		289	80-120	High Bias			
Vanadium	0.516		"	0.500		103	80-120				
Zinc	0.527		"	0.500		105	80-120				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK20551 - EPA 3015A											
Duplicate (BK20551-DUP1)	*Source sample: 22K0032-02 (Duplicate)								Prepared & Analyzed: 11/09/2022		
Aluminum	0.986	0.0556	mg/L		1.02				3.52	20	
Barium	0.0938	0.0278	"		0.0920				1.92	20	
Calcium	266	0.0556	"		262				1.40	20	
Chromium	0.0963	0.00556	"		0.0949				1.41	20	
Cobalt	ND	0.00444	"		ND					20	
Copper	0.0415	0.0222	"		0.0375				10.1	20	
Iron	0.930	0.278	"		0.985				5.75	20	
Lead	0.0191	0.00556	"		0.0214				11.0	20	
Magnesium	28.8	0.0556	"		28.2				1.99	20	
Manganese	0.0370	0.00556	"		0.0357				3.51	20	
Nickel	ND	0.0111	"		ND					20	
Potassium	27.5	0.0556	"		26.5				3.78	20	
Silver	ND	0.00556	"		ND					20	
Sodium	91.3	0.556	"		92.9				1.66	20	
Vanadium	ND	0.0111	"		ND					20	
Zinc	0.0485	0.0278	"		0.0522				7.22	20	
Matrix Spike (BK20551-MS1)	*Source sample: 22K0032-02 (Matrix Spike)								Prepared & Analyzed: 11/09/2022		
Aluminum	3.54	0.0556	mg/L	2.22	1.02	113	75-125				
Barium	2.46	0.0278	"	2.22	0.0920	106	75-125				
Calcium	265	0.0556	"	1.11	262	260	75-125	High Bias			
Chromium	0.328	0.00556	"	0.222	0.0949	105	75-125				
Cobalt	0.590	0.00444	"	0.556	ND	106	75-125				
Copper	0.366	0.0222	"	0.278	0.0375	118	75-125				
Iron	2.09	0.278	"	1.11	0.985	99.2	75-125				
Lead	0.642	0.00556	"	0.556	0.0214	112	75-125				
Magnesium	29.7	0.0556	"	1.11	28.2	132	75-125	High Bias			
Manganese	0.630	0.00556	"	0.556	0.0357	107	75-125				
Nickel	0.601	0.0111	"	0.556	ND	108	75-125				
Potassium	28.4	0.0556	"	1.11	26.5	173	75-125	High Bias			
Silver	0.0523	0.00556	"	0.0556	ND	94.1	75-125				
Sodium	97.4	0.556	"	1.11	92.9	408	75-125	High Bias			
Vanadium	0.585	0.0111	"	0.556	ND	105	75-125				
Zinc	0.615	0.0278	"	0.556	0.0522	101	75-125				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK20551 - EPA 3015A											
Post Spike (BK20551-PS1)	*Source sample: 22K0032-02 (Post Spike)							Prepared & Analyzed: 11/09/2022			
Aluminum	3.14		ug/mL	2.00	0.920	111	75-125				
Barium	2.32		"	2.00	0.0828	112	75-125				
Calcium	235		"	1.00	236	NR	75-125	Low Bias			
Chromium	0.309		"	0.200	0.0854	112	75-125				
Cobalt	0.545		"	0.500	0.000106	109	75-125				
Copper	0.345		"	0.250	0.0338	124	75-125				
Iron	1.98		"	1.00	0.887	109	75-125				
Lead	0.590		"	0.500	0.0192	114	75-125				
Magnesium	26.6		"	1.00	25.4	119	75-125				
Manganese	0.595		"	0.500	0.0321	113	75-125				
Nickel	0.557		"	0.500	0.00699	110	75-125				
Potassium	23.5		"	1.00	23.8	NR	75-125	Low Bias			
Silver	0.0567		"	0.0500	0.00286	108	75-125				
Sodium	83.5		"	1.00	83.6	NR	75-125	Low Bias			
Vanadium	0.551		"	0.500	0.00359	109	75-125				
Zinc	0.585		"	0.500	0.0469	108	75-125				
Batch BK20553 - EPA 3015A											
Blank (BK20553-BLK1)								Prepared & Analyzed: 11/09/2022			
Aluminum - Dissolved	ND	0.0556	mg/L								
Barium - Dissolved	ND	0.0278	"								
Calcium - Dissolved	ND	0.0556	"								
Chromium - Dissolved	ND	0.00556	"								
Cobalt - Dissolved	ND	0.00444	"								
Copper - Dissolved	ND	0.0222	"								
Iron - Dissolved	ND	0.278	"								
Lead - Dissolved	ND	0.00556	"								
Magnesium - Dissolved	ND	0.0556	"								
Manganese - Dissolved	ND	0.00556	"								
Nickel - Dissolved	ND	0.0111	"								
Potassium - Dissolved	ND	0.0556	"								
Silver - Dissolved	ND	0.00556	"								
Sodium - Dissolved	ND	0.556	"								
Vanadium - Dissolved	ND	0.0111	"								
Zinc - Dissolved	ND	0.0278	"								

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK20553 - EPA 3015A											
LCS (BK20553-BS1)								Prepared & Analyzed: 11/09/2022			
Aluminum - Dissolved	1.81		ug/mL	2.00		90.4	80-120				
Barium - Dissolved	2.13		"	2.00		106	80-120				
Calcium - Dissolved	0.685		"	1.00		68.5	80-120	Low Bias			
Chromium - Dissolved	0.204		"	0.200		102	80-120				
Cobalt - Dissolved	0.528		"	0.500		106	80-120				
Copper - Dissolved	0.260		"	0.250		104	80-120				
Iron - Dissolved	1.04		"	1.00		104	80-120				
Lead - Dissolved	0.585		"	0.500		117	80-120				
Magnesium - Dissolved	1.04		"	1.00		104	80-120				
Manganese - Dissolved	0.525		"	0.500		105	80-120				
Nickel - Dissolved	0.524		"	0.500		105	80-120				
Potassium - Dissolved	0.986		"	1.00		98.6	80-120				
Silver - Dissolved	0.0391		"	0.0500		78.1	80-120	Low Bias			
Sodium - Dissolved	1.01		"	1.00		101	80-120				
Vanadium - Dissolved	0.498		"	0.500		99.7	80-120				
Zinc - Dissolved	0.503		"	0.500		101	80-120				
Duplicate (BK20553-DUP1)	*Source sample: 22K0032-02 (Duplicate)							Prepared & Analyzed: 11/09/2022			
Aluminum - Dissolved	0.0756	0.0556	mg/L		ND					20	
Barium - Dissolved	0.0904	0.0278	"		0.0898				0.644	20	
Calcium - Dissolved	178	0.0556	"		176				0.829	20	
Chromium - Dissolved	0.0586	0.00556	"		0.0587				0.180	20	
Cobalt - Dissolved	ND	0.00444	"		ND					20	
Copper - Dissolved	0.0240	0.0222	"		0.0240				0.0275	20	
Iron - Dissolved	ND	0.278	"		ND					20	
Lead - Dissolved	ND	0.00556	"		ND					20	
Magnesium - Dissolved	24.9	0.0556	"		25.0				0.394	20	
Manganese - Dissolved	0.0157	0.00556	"		0.0167				6.34	20	
Nickel - Dissolved	ND	0.0111	"		ND					20	
Potassium - Dissolved	31.0	0.0556	"		30.4				2.06	20	
Silver - Dissolved	ND	0.00556	"		ND					20	
Sodium - Dissolved	130	0.556	"		130				0.240	20	
Vanadium - Dissolved	ND	0.0111	"		ND					20	
Zinc - Dissolved	ND	0.0278	"		ND					20	

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK20553 - EPA 3015A											
Matrix Spike (BK20553-MS1)	*Source sample: 22K0032-02 (Matrix Spike)							Prepared & Analyzed: 11/09/2022			
Barium - Dissolved	2.51	0.0278	mg/L	2.22	0.0898	109	75-125				
Chromium - Dissolved	0.290	0.00556	"	0.222	0.0587	104	75-125				
Cobalt - Dissolved	0.602	0.00444	"	0.556	ND	108	75-125				
Copper - Dissolved	0.333	0.0222	"	0.278	0.0240	111	75-125				
Iron - Dissolved	1.17	0.278	"	1.11	ND	106	75-125				
Lead - Dissolved	0.618	0.00556	"	0.556	ND	111	75-125				
Manganese - Dissolved	0.619	0.00556	"	0.556	0.0167	108	75-125				
Nickel - Dissolved	0.619	0.0111	"	0.556	ND	111	75-125				
Silver - Dissolved	0.0419	0.00556	"	0.0556	ND	75.4	75-125				
Vanadium - Dissolved	0.589	0.0111	"	0.556	ND	106	75-125				
Zinc - Dissolved	0.607	0.0278	"	0.556	ND	109	75-125				
Post Spike (BK20553-PS1)	*Source sample: 22K0032-02 (Post Spike)							Prepared & Analyzed: 11/09/2022			
Aluminum - Dissolved	2.24		ug/mL	2.00	0.0432	110	75-125				
Barium - Dissolved	2.37		"	2.00	0.0809	115	75-125				
Calcium - Dissolved	163		"	1.00	159	487	75-125	High Bias			
Chromium - Dissolved	0.273		"	0.200	0.0528	110	75-125				
Cobalt - Dissolved	0.570		"	0.500	0.000590	114	75-125				
Copper - Dissolved	0.316		"	0.250	0.0216	118	75-125				
Iron - Dissolved	1.20		"	1.00	0.0816	111	75-125				
Lead - Dissolved	0.579		"	0.500	-0.00284	116	75-125				
Magnesium - Dissolved	23.8		"	1.00	22.5	132	75-125	High Bias			
Manganese - Dissolved	0.588		"	0.500	0.0151	115	75-125				
Nickel - Dissolved	0.582		"	0.500	0.00520	115	75-125				
Potassium - Dissolved	28.3		"	1.00	27.4	90.7	75-125				
Silver - Dissolved	0.0498		"	0.0500	0.00229	95.1	75-125				
Sodium - Dissolved	118		"	1.00	117	97.7	75-125				
Vanadium - Dissolved	0.559		"	0.500	0.00342	111	75-125				
Zinc - Dissolved	0.564		"	0.500	0.0215	109	75-125				

Metals by ICP/MS - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK20451 - EPA 3015A											
Blank (BK20451-BLK2)								Prepared: 11/08/2022 Analyzed: 11/14/2022			
Antimony	ND	1.11	ug/L								
Arsenic	ND	1.11	"								
Beryllium	ND	0.333	"								
Cadmium	ND	0.556	"								
Selenium	1.20	1.11	"								
Thallium	ND	1.11	"								
LCS (BK20451-BS2)								Prepared: 11/08/2022 Analyzed: 11/14/2022			
Antimony	54.8		ug/L	50.0		110	80-120				
Arsenic	57.4		"	50.0		115	80-120				
Beryllium	67.5		"	50.0		135	80-120	High Bias			
Cadmium	56.0		"	50.0		112	80-120				
Selenium	49.8		"	50.0		99.6	80-120				
Thallium	78.7		"	50.0		157	80-120	High Bias			
Batch BK20455 - EPA 3015A											
Blank (BK20455-BLK1)								Prepared: 11/08/2022 Analyzed: 11/14/2022			
Antimony - Dissolved	ND	1.11	ug/L								
Arsenic - Dissolved	ND	1.11	"								
Beryllium - Dissolved	ND	0.333	"								
Cadmium - Dissolved	ND	0.556	"								
Selenium - Dissolved	ND	1.11	"								
Thallium - Dissolved	ND	1.11	"								
LCS (BK20455-BS1)								Prepared: 11/08/2022 Analyzed: 11/14/2022			
Antimony - Dissolved	51.7		ug/L	50.0		103	80-120				
Arsenic - Dissolved	56.6		"	50.0		113	80-120				
Beryllium - Dissolved	63.2		"	50.0		126	80-120	High Bias			
Cadmium - Dissolved	52.3		"	50.0		105	80-120				
Selenium - Dissolved	48.9		"	50.0		97.9	80-120				
Thallium - Dissolved	76.7		"	50.0		153	80-120	High Bias			

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc. - Stratford

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BK20166 - EPA SW846-7470A											
Blank (BK20166-BLK1)								Prepared & Analyzed: 11/02/2022			
Mercury	ND	0.0002	mg/L								
LCS (BK20166-BS1)								Prepared & Analyzed: 11/02/2022			
Mercury	0.0020151	0.0002	mg/L	0.00200		101	80-120				
Duplicate (BK20166-DUP1)	*Source sample: 22K0032-02 (Duplicate)							Prepared & Analyzed: 11/02/2022			
Mercury	ND	0.0002	mg/L		ND					20	
Matrix Spike (BK20166-MS1)	*Source sample: 22K0032-02 (Matrix Spike)							Prepared & Analyzed: 11/02/2022			
Mercury	0.0021	0.0002	mg/L	0.00200	ND	104	75-125				
Batch BK20423 - EPA SW846-7470A											
Blank (BK20423-BLK1)								Prepared & Analyzed: 11/07/2022			
Mercury - Dissolved	ND	0.0002	mg/L								
LCS (BK20423-BS1)								Prepared & Analyzed: 11/07/2022			
Mercury - Dissolved	0.0020	0.0002	mg/L	0.00200		102	80-120				
LCS (BK20423-BS2)								Prepared & Analyzed: 11/07/2022			
Mercury - Dissolved	0.0021	0.0002	mg/L	0.00200		103	80-120				

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
22K0116-01	MW-101	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
22K0116-02	MW-102	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
22K0116-03	MW-103	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
22K0116-04	MW-104	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
22K0116-05	MW-105	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
22K0116-06	MW-106	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
22K0116-07	MW-107	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
22K0116-08	MW-108	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
22K0116-09	MW-109	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
22K0116-10	MW-110	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
22K0116-11	DUP	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
22K0116-12	Trip Blank	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

S-08	The recovery of this surrogate was outside of QC limits.
S-03	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect. This effect was confirmed by reanalysis.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QR-02	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-06	Due to noted non-homogeneity of the QC sample matrix, the MS/MSD did not provide reliable results for accuracy and precision. Sample results for the QC batch were accepted based on LCS/LCSD percent recoveries and RPD values.
QM-01	The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
M-SPKM	The spike recovery is not within acceptance windows due to sample non-homogeneity, or matrix interference.
M-BS	The recovery for this element in the batch blank spike recovered slightly outside of control limits
M-BLK	The target analyte was detected above the RL in the batch method blank. All samples showed >10x the concentration in the blank for this analyte. Data are reported.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
ICVE	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).
CCVE	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference

Wet — The data has been reported on an as-received (wet weight) basis

Low Bias — Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias — High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. — Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Revision Description: This report has been revised to report one dilution for VOC samples.

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 22K0116

120 Research Drive Stratford, CT 06615 | 132-02 89th Ave Queens, NY 11418 | clientservices@yorklab.com | www.yorklab.com | 800-306-YORK | 800-306-9675

YOUR Information	Report To:	Invoice To:
Company: Laurel Environmental Geosciences	Company:	Company:
Address: 53 West Hills Road, Huntington Station NY 11746	Address: Scott	Address: Kathy
Phone.: (631) 673-2012	Phone.:	Phone.:
Contact: Scott Yunck	Contact:	Contact:
E-mail: info@swits@laurelenv.com	E-mail:	E-mail:

YOUR Project Number: 19-401

YOUR Project Name: 27-09 40th Avenue, Long Island City

YOUR PO#:

Turn-Around Time

RUSH - Next Day	
RUSH - Two Day	
RUSH - Three Day	
RUSH - Four Day	
Standard (5-7 Day)	X

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print AND sign your name) — Nicholas Kiden

Matrix Codes

S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil | Other

Samples From

New York X
New Jersey
Connecticut
Pennsylvania
Other:

Report / EDD Type (circle selections)

Summary Report | CT RCP | Standard Excel EDD
QA Report | CT RCP DQA/DUE | EQuIS (Standard)
NY ASP A Package | NJDEP Reduced | NYSDEC EQuIS
NY ASP B Package | Deliverables | NJDEP SRP HazSite
NJDKQP | Other:

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
~~TMW-101~~ MW-101	GW	11/2/22 1303	USEPA 8260 VOC	(3) 40mL
TMW-102MS MW-102		1322		
TMW-103 MW-103		1157		
~~TMW-104~~ MW-104		1228		
~~TMW-105~~ MW-105		1207	USEPA 8260 VOC, TAL Metals, Dissolved Metals	(3) 40mL (3) 250mL
~~TMW-106~~ MW-106		1244		
~~TMW-107~~ MW-107		1122		
~~TMW-108~~ MW-108		1014	USEPA 8260 VOC	(3) 40mL
~~TMW-109~~ MW-109		1033		
TMW-110 MW-110		1053		

Comments:

Preservation: (check all that apply)

HCl ✓ MeOH ___ HNO3 ✓ H2SO4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other: ___

Special Instruction

Field Filtered
Lab to Filter

Samples iced/chilled at time of lab pickup? circle Yes or No

Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
~~KBlackmore~~	11/2/2022 1040	KBlackmore	11/2/22 115=AM	KBlackmore	11/2/22 1846
Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temperature
				KBlackmore	11/2/22 1846 / 1.6 Degrees C

Field Chain-of-Custody Record

YORK ANALYTICAL LABORATORIES INC

York Analytical Laboratories, Inc. (YORK)'s Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 22K0116

120 Research Drive Stratford, CT 06615 | 132-02 89th Ave Queens, NY 11418 | clientservices@yorklab.com | www.yorklab.com | 800-306-YORK | 800-306-9675

YOUR Information	Report To:	Invoice To:
Company: Laurel Environmental Grp.	Company:	Company:
Address: 53 West Hills Road, Huntington Station, NY 11746	Address: SCH	Address: Kath.
Phone.: (631) 673-2002	Phone.:	Phone.:
Contact: Scott Yanuck	Contact:	Contact:
E-mail: lg results@laurelenv.com	E-mail:	E-mail:

YOUR Project Number: 19-401

YOUR Project Name: 27-09 40th Avenue, Long Island City

YOUR PO#:

Turn-Around Time

RUSH - Next Day	
RUSH - Two Day	
RUSH - Three Day	
RUSH - Four Day	
Standard (5-7 Day)	X

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print AND sign your name)

Matrix Codes

S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil | Other

Samples From

New York X
New Jersey
Connecticut
Pennsylvania
Other:

Report / EDD Type (circle selections)

Summary Report | CT RCP | Standard Excel EDD
QA Report | CT RCP DQA/DUE | EQuIS (Standard)
NY ASP A Package | NJDEP Reduced Deliverables | NYSDEC EQuIS
NY ASP B Package | NJDEP SRP HazSite
NJDKQP | Other:

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
DUP	GW	11/1/2022 700	USEPA 8260 VOC	(3) 40ml
Trip Blank	Other- DI Water	11/1/2022 800	USEPA 8260 VOC	(3) 40ml

Comments:

Samples iced/chilled at time of lab pickup? circle Yes or No

Preservation: (check all that apply)

HCl ✓ MeOH ___ HNO3 ✓ H2SO4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other: ___

Special Instruction

Field Filtered
Lab to Filter

Samples Relinquished by / Company	Date/Time	1. Samples Received by / Company	Date/Time	2. Samples Relinquished by / Company	Date/Time
[signature]	11/1/2022	K Barkyork	11/2/22 1150AM	K Barkyork	11/2/22 1846
Samples Received by / Company	Date/Time	3. Samples Relinquished by / Company	Date/Time	3. Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	4. Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time / Temperature
				K Blocksom	11/2/22 1846 / 1.6 Degrees C

APPENDIX E.2

Groundwater Data Analytical Report December 1, 2022

Technical Report

prepared for:

Liberty Environmental, Inc
600 3rd Avenue, 2nd Floor
New York NY, 10016
Attention: Craig Herr

Report Date: 12/14/2022
Client Project ID: 220192 27-09 40th Ave.
York Project (SDG) No.: 22L0234

CT Cert. No. PH-0723 New Jersey Cert. No. CT005 and NY037 New York Cert. Nos. 10854 and 12058 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 ■ 132-02 89th AVENUE RICHMOND HILL, NY 11418
www.YORKLAB.com (203) 325-1371 FAX (203) 357-0166 ClientServices@yorklab.com

Report Date: 12/14/2022
Client Project ID: 220192 27-09 40th Ave.
York Project (SDG) No.: 22L0234

Liberty Environmental, Inc
600 3rd Avenue, 2nd Floor
New York NY, 10016
Attention: Craig Herr

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on December 05, 2022 and listed below. The project was identified as your project: **220192 27-09 40th Ave.**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
22L0234-01	IW-1 GWS @42'	Water	11/23/2022	12/05/2022
22L0234-02	IW-2 GWS @40'	Water	11/23/2022	12/05/2022
22L0234-03	MW110-GWS @37'	Water	12/01/2022	12/05/2022
22L0234-04	MW109-GWS @35'	Water	12/01/2022	12/05/2022
22L0234-05	MW108-GWS @36'	Water	12/01/2022	12/05/2022
22L0234-06	MW106-GWS @37'	Water	12/01/2022	12/05/2022
22L0234-07	MW103-GWS @38'	Water	12/01/2022	12/05/2022
22L0234-08	IW-1 GWS @42'	Water	12/01/2022	12/05/2022

General Notes for York Project (SDG) No.: 22L0234

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By:  **Date:** 12/14/2022

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: **IW-1 GWS @42'** **York Sample ID:** **22L0234-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22L0234	220192 27-09 40th Ave.	Water	November 23, 2022 5:26 pm	12/05/2022

Volatile Organics, 8260 - Comprehensive

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/07/2022 12:37	SA
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/07/2022 12:37	SA
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/07/2022 12:37	SA
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/07/2022 12:37	SA
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/07/2022 12:37	SA
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/07/2022 12:37	SA
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/07/2022 12:37	SA
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2022 12:37	SA
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2022 12:37	SA
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/07/2022 12:37	SA
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/07/2022 12:37	SA
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/07/2022 12:37	SA
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/07/2022 12:37	SA
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/07/2022 12:37	SA
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/07/2022 12:37	SA
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/07/2022 12:37	SA
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/07/2022 12:37	SA
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/07/2022 12:37	SA

Sample Information

Client Sample ID: IW-1 GWS @42'

York Sample ID: 22L0234-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22L0234	220192 27-09 40th Ave.	Water	November 23, 2022 5:26 pm	12/05/2022

Volatile Organics, 8260 - Comprehensive

Log-in Notes: HT-04

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00	12/07/2022 12:37	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C Certifications:	12/07/2022 09:00	12/07/2022 12:37	SA NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
78-93-3	**2-Butanone**	**2.1**	CCVE	ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00	12/07/2022 12:37	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00	12/07/2022 12:37	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00	12/07/2022 12:37	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
67-64-1	**Acetone**	**6.5**	CCVE, ICVE	ug/L	1.0	2.0	1	EPA 8260C Certifications:	12/07/2022 09:00	12/07/2022 12:37	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
107-02-8	**Acrolein**	**0.47**	CCVE, ICVE, J	ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00	12/07/2022 12:37	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00	12/07/2022 12:37	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00	12/07/2022 12:37	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00	12/07/2022 12:37	SA NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00	12/07/2022 12:37	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00	12/07/2022 12:37	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00	12/07/2022 12:37	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00	12/07/2022 12:37	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00	12/07/2022 12:37	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00	12/07/2022 12:37	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00	12/07/2022 12:37	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00	12/07/2022 12:37	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00	12/07/2022 12:37	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI

Sample Information

Client Sample ID: IW-1 GWS @42'

York Sample ID: 22L0234-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22L0234	220192 27-09 40th Ave.	Water	November 23, 2022 5:26 pm	12/05/2022

Volatile Organics, 8260 - Comprehensive

Log-in Notes: HT-04

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00	12/07/2022 12:37	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00	12/07/2022 12:37	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00	12/07/2022 12:37	SA NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00	12/07/2022 12:37	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00	12/07/2022 12:37	SA NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00	12/07/2022 12:37	SA NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00	12/07/2022 12:37	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00	12/07/2022 12:37	SA NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00	12/07/2022 12:37	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00	12/07/2022 12:37	SA NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00	12/07/2022 12:37	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00	12/07/2022 12:37	SA NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	12/07/2022 09:00	12/07/2022 12:37	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00	12/07/2022 12:37	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00	12/07/2022 12:37	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00	12/07/2022 12:37	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications:	12/07/2022 09:00	12/07/2022 12:37	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00	12/07/2022 12:37	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00	12/07/2022 12:37	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI

Sample Information

Client Sample ID: IW-1 GWS @42' **York Sample ID:** 22L0234-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22L0234	220192 27-09 40th Ave.	Water	November 23, 2022 5:26 pm	12/05/2022

Volatile Organics, 8260 - Comprehensive

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00	12/07/2022 12:37 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
75-65-0	**tert-Butyl alcohol (TBA)**	**4.2**		ug/L	0.50	1.0	1	EPA 8260C Certifications:	12/07/2022 09:00	12/07/2022 12:37 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SA
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00	12/07/2022 12:37 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
127-18-4	**Tetrachloroethylene**	**3.4**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00	12/07/2022 12:37 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA	SA
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00	12/07/2022 12:37 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00	12/07/2022 12:37 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00	12/07/2022 12:37 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00	12/07/2022 12:37 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP	SA
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00	12/07/2022 12:37 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00	12/07/2022 12:37 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/07/2022 09:00	12/07/2022 12:37 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications:	12/07/2022 09:00	12/07/2022 12:37 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP	SA

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*126 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*93.4 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*97.4 %*	*79-122*

Hardness, total (as CaCO3)

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Hardness, Total	**10.9**		mg/L	1.11	1	SM 2340B-2011 Certifications:	12/12/2022 15:38	12/14/2022 10:52 NELAC-NY10854,CTDOH-PH-0723,NJDEP	CW

Chloride

Log-in Notes: HT-04 **Sample Notes:**

Sample Information

Client Sample ID: **IW-1 GWS @42'** **York Sample ID:** **22L0234-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22L0234	220192 27-09 40th Ave.	Water	November 23, 2022 5:26 pm	12/05/2022

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	**Chloride**	**58.1**		mg/L	25.0	50	EPA 300.0	12/07/2022 02:05	12/07/2022 02:05	NJO
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Nitrate as N **Log-in Notes:** HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	**Nitrate as N**	**8.10**	HT-02	mg/L	2.50	50	EPA 300.0	12/07/2022 02:05	12/07/2022 02:05	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP		

Sulfate as SO4 **Log-in Notes:** HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	**Sulfate**	**413**		mg/L	50.0	50	EPA 300.0	12/07/2022 02:05	12/07/2022 02:05	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP		

Sample Information

Client Sample ID: **IW-2 GWS @40'** **York Sample ID:** **22L0234-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22L0234	220192 27-09 40th Ave.	Water	November 23, 2022 5:52 pm	12/05/2022

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.40	1.0	2	EPA 8260C	12/06/2022 09:00	12/06/2022 12:09	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.40	1.0	2	EPA 8260C	12/06/2022 09:00	12/06/2022 12:09	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.40	1.0	2	EPA 8260C	12/06/2022 09:00	12/06/2022 12:09	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.40	1.0	2	EPA 8260C	12/06/2022 09:00	12/06/2022 12:09	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.40	1.0	2	EPA 8260C	12/06/2022 09:00	12/06/2022 12:09	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.40	1.0	2	EPA 8260C	12/06/2022 09:00	12/06/2022 12:09	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		

Sample Information

Client Sample ID: IW-2 GWS @40' **York Sample ID:** 22L0234-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22L0234	220192 27-09 40th Ave.	Water	November 23, 2022 5:52 pm	12/05/2022

Volatile Organics, 8260 - Comprehensive

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications:	12/06/2022 09:00	12/06/2022 12:09 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications:	12/06/2022 09:00	12/06/2022 12:09 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SA
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications:	12/06/2022 09:00	12/06/2022 12:09 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SA
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications:	12/06/2022 09:00	12/06/2022 12:09 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SA
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications:	12/06/2022 09:00	12/06/2022 12:09 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications:	12/06/2022 09:00	12/06/2022 12:09 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
106-93-4	1,2-Dibromoethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications:	12/06/2022 09:00	12/06/2022 12:09 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications:	12/06/2022 09:00	12/06/2022 12:09 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
107-06-2	1,2-Dichloroethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications:	12/06/2022 09:00	12/06/2022 12:09 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
78-87-5	1,2-Dichloropropane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications:	12/06/2022 09:00	12/06/2022 12:09 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications:	12/06/2022 09:00	12/06/2022 12:09 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications:	12/06/2022 09:00	12/06/2022 12:09 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications:	12/06/2022 09:00	12/06/2022 12:09 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
123-91-1	1,4-Dioxane	ND		ug/L	80	80	2	EPA 8260C Certifications:	12/06/2022 09:00	12/06/2022 12:09 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SA
78-93-3	2-Butanone	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications:	12/06/2022 09:00	12/06/2022 12:09 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
591-78-6	2-Hexanone	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications:	12/06/2022 09:00	12/06/2022 12:09 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications:	12/06/2022 09:00	12/06/2022 12:09 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
67-64-1	**Acetone**	**8.2**		ug/L	2.0	4.0	2	EPA 8260C Certifications:	12/06/2022 09:00	12/06/2022 12:09 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA	SA
107-02-8	Acrolein	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications:	12/06/2022 09:00	12/06/2022 12:09 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA

Sample Information

Client Sample ID: IW-2 GWS @40' **York Sample ID:** 22L0234-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22L0234	220192 27-09 40th Ave.	Water	November 23, 2022 5:52 pm	12/05/2022

Volatile Organics, 8260 - Comprehensive

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-13-1	Acrylonitrile	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications:	12/06/2022 09:00	12/06/2022 12:09 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
71-43-2	Benzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications:	12/06/2022 09:00	12/06/2022 12:09 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
74-97-5	Bromochloromethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications:	12/06/2022 09:00	12/06/2022 12:09 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SA
75-27-4	Bromodichloromethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications:	12/06/2022 09:00	12/06/2022 12:09 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
75-25-2	Bromoform	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications:	12/06/2022 09:00	12/06/2022 12:09 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
74-83-9	Bromomethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications:	12/06/2022 09:00	12/06/2022 12:09 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
75-15-0	Carbon disulfide	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications:	12/06/2022 09:00	12/06/2022 12:09 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
56-23-5	Carbon tetrachloride	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications:	12/06/2022 09:00	12/06/2022 12:09 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
108-90-7	Chlorobenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications:	12/06/2022 09:00	12/06/2022 12:09 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
75-00-3	Chloroethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications:	12/06/2022 09:00	12/06/2022 12:09 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
67-66-3	Chloroform	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications:	12/06/2022 09:00	12/06/2022 12:09 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
74-87-3	Chloromethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications:	12/06/2022 09:00	12/06/2022 12:09 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications:	12/06/2022 09:00	12/06/2022 12:09 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications:	12/06/2022 09:00	12/06/2022 12:09 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
110-82-7	Cyclohexane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications:	12/06/2022 09:00	12/06/2022 12:09 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SA
124-48-1	Dibromochloromethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications:	12/06/2022 09:00	12/06/2022 12:09 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
74-95-3	Dibromomethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications:	12/06/2022 09:00	12/06/2022 12:09 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SA
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications:	12/06/2022 09:00	12/06/2022 12:09 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SA
100-41-4	Ethyl Benzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications:	12/06/2022 09:00	12/06/2022 12:09 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA

Sample Information

Client Sample ID: IW-2 GWS @40' **York Sample ID:** 22L0234-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22L0234	220192 27-09 40th Ave.	Water	November 23, 2022 5:52 pm	12/05/2022

Volatile Organics, 8260 - Comprehensive

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications:	12/06/2022 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/06/2022 12:09	SA
98-82-8	Isopropylbenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications:	12/06/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/06/2022 12:09	SA
79-20-9	Methyl acetate	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications:	12/06/2022 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/06/2022 12:09	SA
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications:	12/06/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/06/2022 12:09	SA
108-87-2	Methylcyclohexane	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications:	12/06/2022 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/06/2022 12:09	SA
75-09-2	**Methylene chloride**	**8.3**		ug/L	2.0	4.0	2	EPA 8260C Certifications:	12/06/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA	12/06/2022 12:09	SA
104-51-8	n-Butylbenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications:	12/06/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/06/2022 12:09	SA
103-65-1	n-Propylbenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications:	12/06/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/06/2022 12:09	SA
95-47-6	o-Xylene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications:	12/06/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP	12/06/2022 12:09	SA
179601-23-1	p- & m- Xylenes	ND		ug/L	1.0	2.0	2	EPA 8260C Certifications:	12/06/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP	12/06/2022 12:09	SA
99-87-6	p-Isopropyltoluene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications:	12/06/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/06/2022 12:09	SA
135-98-8	sec-Butylbenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications:	12/06/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/06/2022 12:09	SA
100-42-5	Styrene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications:	12/06/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/06/2022 12:09	SA
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	1.0	2.0	2	EPA 8260C Certifications:	12/06/2022 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/06/2022 12:09	SA
98-06-6	tert-Butylbenzene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications:	12/06/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/06/2022 12:09	SA
127-18-4	Tetrachloroethylene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications:	12/06/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/06/2022 12:09	SA
108-88-3	Toluene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications:	12/06/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/06/2022 12:09	SA
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications:	12/06/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/06/2022 12:09	SA
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.40	1.0	2	EPA 8260C Certifications:	12/06/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/06/2022 12:09	SA

Sample Information

Client Sample ID: IW-2 GWS @40' **York Sample ID:** 22L0234-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22L0234	220192 27-09 40th Ave.	Water	November 23, 2022 5:52 pm	12/05/2022

Volatile Organics, 8260 - Comprehensive

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.40	1.0	2	EPA 8260C	12/06/2022 09:00	12/06/2022 12:09	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP		
79-01-6	Trichloroethylene	ND		ug/L	0.40	1.0	2	EPA 8260C	12/06/2022 09:00	12/06/2022 12:09	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
75-69-4	Trichlorofluoromethane	ND		ug/L	0.40	1.0	2	EPA 8260C	12/06/2022 09:00	12/06/2022 12:09	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
75-01-4	Vinyl Chloride	ND		ug/L	0.40	1.0	2	EPA 8260C	12/06/2022 09:00	12/06/2022 12:09	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
1330-20-7	Xylenes, Total	ND		ug/L	1.2	3.0	2	EPA 8260C	12/06/2022 09:00	12/06/2022 12:09	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*114 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*95.8 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*92.5 %*	*79-122*

Calcium by EPA 6010

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	**Calcium**	**1.59**		mg/L	0.0556	1	EPA 6010D	12/08/2022 13:58	12/13/2022 14:36	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Chromium by EPA 6010

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-47-3	**Chromium**	**0.466**		mg/L	0.00556	1	EPA 6010D	12/08/2022 13:58	12/13/2022 14:36	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Hardness, total (as CaCO3)

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Hardness, Total	**23.4**		mg/L	1.11	1	SM 2340B-2011	12/07/2022 09:51	12/13/2022 18:55	CW
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP		

Magnesium by EPA 6010

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: IW-2 GWS @40' **York Sample ID:** 22L0234-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22L0234	220192 27-09 40th Ave.	Water	November 23, 2022 5:52 pm	12/05/2022

Magnesium by EPA 6010

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	**Magnesium**	**1.02**		mg/L	0.0556	1	EPA 6010D	12/08/2022 13:58	12/13/2022 14:36	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Arsenic by EPA 6020

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	**Arsenic**	**57.4**		ug/L	1.11	1	EPA 6020B	12/07/2022 13:08	12/08/2022 17:10	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Iron by EPA 6020

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	*** Iron**	**8820**		ug/L	11.1	1	EPA 6020B	12/07/2022 13:08	12/08/2022 17:10	AJL
							Certifications:	CTDOH-PH-0723		

Manganese by EPA 6020

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	**Manganese**	**219**		ug/L	11.1	10	EPA 6020B	12/07/2022 13:08	12/12/2022 13:54	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Chloride

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	**Chloride**	**29.7**		mg/L	25.0	50	EPA 300.0	12/07/2022 02:14	12/07/2022 02:14	NJO
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Nitrate as N

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	**Nitrate as N**	**5.87**	HT-02	mg/L	2.50	50	EPA 300.0	12/07/2022 02:14	12/07/2022 02:14	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP		

Sulfate as SO4

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	**Sulfate**	**23000**		mg/L	200	200	EPA 300.0	12/08/2022 18:29	12/08/2022 18:29	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP		

Sample Information

Client Sample ID: **IW-2 GWS @40'** **York Sample ID:** **22L0234-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22L0234	220192 27-09 40th Ave.	Water	November 23, 2022 5:52 pm	12/05/2022

Sample Information

Client Sample ID: **MW110-GWS @37'** **York Sample ID:** **22L0234-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22L0234	220192 27-09 40th Ave.	Water	December 1, 2022 5:38 pm	12/05/2022

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 17:25	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 17:25	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 17:25	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 17:25	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
79-00-5	**1,1,2-Trichloroethane**	**5.1**		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 17:25	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 17:25	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
75-35-4	**1,1-Dichloroethylene**	**0.28**	J	ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 17:25	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 17:25	SA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 17:25	SA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 17:25	SA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 17:25	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 17:25	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 17:25	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 17:25	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 17:25	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		

Sample Information

Client Sample ID: MW110-GWS @37' **York Sample ID:** 22L0234-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22L0234	220192 27-09 40th Ave.	Water	December 1, 2022 5:38 pm	12/05/2022

Volatile Organics, 8260 - Comprehensive

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 17:25	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 17:25	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 17:25	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 17:25	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 17:25	SA NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 17:25	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 17:25	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 17:25	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 17:25	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 17:25	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 17:25	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 17:25	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 17:25	SA NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 17:25	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 17:25	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 17:25	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 17:25	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 17:25	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 17:25	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI

Sample Information

Client Sample ID: MW110-GWS @37' **York Sample ID:** 22L0234-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22L0234	220192 27-09 40th Ave.	Water	December 1, 2022 5:38 pm	12/05/2022

Volatile Organics, 8260 - Comprehensive

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 17:25	SA
67-66-3	**Chloroform**	**1.4**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA	12/09/2022 17:25	SA
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 17:25	SA
156-59-2	**cis-1,2-Dichloroethylene**	**3.5**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA	12/09/2022 17:25	SA
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 17:25	SA
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/09/2022 17:25	SA
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 17:25	SA
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/09/2022 17:25	SA
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/09/2022 17:25	SA
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 17:25	SA
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/09/2022 17:25	SA
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 17:25	SA
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/09/2022 17:25	SA
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 17:25	SA
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/09/2022 17:25	SA
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 17:25	SA
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 17:25	SA
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 17:25	SA
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP	12/09/2022 17:25	SA

Sample Information

Client Sample ID: MW110-GWS @37' **York Sample ID:** 22L0234-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22L0234	220192 27-09 40th Ave.	Water	December 1, 2022 5:38 pm	12/05/2022

Volatile Organics, 8260 - Comprehensive

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 17:25	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 17:25	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 17:25	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 17:25	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 17:25	SA NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 17:25	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
127-18-4	**Tetrachloroethylene**	**360**		ug/L	2.0	5.0	10	EPA 8260C Certifications:	12/12/2022 09:00	12/12/2022 15:46	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 17:25	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
156-60-5	**trans-1,2-Dichloroethylene**	**0.64**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 17:25	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 17:25	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 17:25	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP
79-01-6	**Trichloroethylene**	**3.8**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 17:25	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
75-69-4	**Trichlorofluoromethane**	**1.6**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 17:25	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 17:25	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 17:25	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*106 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*92.6 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*102 %*	*79-122*

Calcium, Dissolved by EPA 6010

Log-in Notes: HT-04 **Sample Notes:**

Sample Information

Client Sample ID: MW110-GWS @37' **York Sample ID:** 22L0234-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22L0234	220192 27-09 40th Ave.	Water	December 1, 2022 5:38 pm	12/05/2022

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	**Calcium**	**214**		mg/L	0.0556	1	EPA 6010D	12/08/2022 14:03	12/13/2022 15:46	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Chromium, Dissolved by EPA 6010

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	12/08/2022 14:03	12/13/2022 15:46	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Hardness, total (as CaCO3)

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Hardness, Total	**929**		mg/L	1.11	1	SM 2340B-2011	12/07/2022 09:51	12/13/2022 18:58	CW
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP		

Magnesium, Dissolved by EPA 6010

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	**Magnesium**	**102**		mg/L	0.0556	1	EPA 6010D	12/08/2022 14:03	12/13/2022 15:46	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Arsenic, Dissolved by EPA 6020

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	ND		ug/L	1.11	1	EPA 6020B	12/09/2022 10:34	12/13/2022 18:57	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Iron, Dissolved by EPA 6020

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	*** Iron**	**87.3**		ug/L	11.1	1	EPA 6020B	12/09/2022 10:34	12/13/2022 18:57	AJL
							Certifications:	CTDOH-PH-0723		

Manganese, Dissolved by EPA 6020

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	**Manganese**	**35.9**		ug/L	1.11	1	EPA 6020B	12/09/2022 10:34	12/13/2022 18:57	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: MW110-GWS @37' **York Sample ID:** 22L0234-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22L0234	220192 27-09 40th Ave.	Water	December 1, 2022 5:38 pm	12/05/2022

Chloride

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	**Chloride**	**327**		mg/L	5.00	10	EPA 300.0	12/07/2022 02:44	12/07/2022 02:44	NJO
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Nitrate as N

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	**Nitrate as N**	**27.7**	HT-02	mg/L	0.500	10	EPA 300.0	12/07/2022 02:44	12/07/2022 02:44	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP		

Sulfate as SO4

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	**Sulfate**	**176**		mg/L	10.0	10	EPA 300.0	12/07/2022 02:44	12/07/2022 02:44	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP		

Alkalinity, Total

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	**400**	CONT-02	mg/L	2.0	1	SM 2320B	12/12/2022 09:25	12/12/2022 14:05	VR
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP		

Sample Information

Client Sample ID: MW109-GWS @35' **York Sample ID:** 22L0234-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22L0234	220192 27-09 40th Ave.	Water	December 1, 2022 6:27 pm	12/05/2022

Volatile Organics, 8260 - Comprehensive

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 17:54	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 17:54	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		

Sample Information

Client Sample ID: MW109-GWS @35' **York Sample ID:** 22L0234-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22L0234	220192 27-09 40th Ave.	Water	December 1, 2022 6:27 pm	12/05/2022

Volatile Organics, 8260 - Comprehensive

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 17:54	SA
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 17:54	SA
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 17:54	SA
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 17:54	SA
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 17:54	SA
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/09/2022 17:54	SA
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/09/2022 17:54	SA
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/09/2022 17:54	SA
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 17:54	SA
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 17:54	SA
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 17:54	SA
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 17:54	SA
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 17:54	SA
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 17:54	SA
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 17:54	SA
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 17:54	SA
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 17:54	SA
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C Certifications:	12/09/2022 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/09/2022 17:54	SA
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 17:54	SA

Sample Information

Client Sample ID: MW109-GWS @35' **York Sample ID:** 22L0234-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22L0234	220192 27-09 40th Ave.	Water	December 1, 2022 6:27 pm	12/05/2022

Volatile Organics, 8260 - Comprehensive

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 17:54	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 17:54	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
67-64-1	**Acetone**	**1.5**	J	ug/L	1.0	2.0	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 17:54	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 17:54	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 17:54	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 17:54	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 17:54	SA NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 17:54	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 17:54	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 17:54	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 17:54	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 17:54	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 17:54	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 17:54	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
67-66-3	**Chloroform**	**0.37**	J	ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 17:54	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 17:54	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 17:54	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 17:54	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 17:54	SA NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP

Sample Information

Client Sample ID: MW109-GWS @35' **York Sample ID:** 22L0234-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22L0234	220192 27-09 40th Ave.	Water	December 1, 2022 6:27 pm	12/05/2022

Volatile Organics, 8260 - Comprehensive

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 17:54	SA
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/09/2022 17:54	SA
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/09/2022 17:54	SA
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 17:54	SA
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/09/2022 17:54	SA
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 17:54	SA
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/09/2022 17:54	SA
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 17:54	SA
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/09/2022 17:54	SA
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 17:54	SA
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 17:54	SA
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 17:54	SA
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP	12/09/2022 17:54	SA
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP	12/09/2022 17:54	SA
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 17:54	SA
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 17:54	SA
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 17:54	SA
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications:	12/09/2022 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/09/2022 17:54	SA
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 17:54	SA

Sample Information

Client Sample ID: MW109-GWS @35' **York Sample ID:** 22L0234-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22L0234	220192 27-09 40th Ave.	Water	December 1, 2022 6:27 pm	12/05/2022

Volatile Organics, 8260 - Comprehensive

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	**Tetrachloroethylene**	**72**		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 17:54	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA		
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 17:54	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 17:54	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 17:54	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 17:54	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP		
79-01-6	**Trichloroethylene**	**5.2**		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 17:54	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA		
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 17:54	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 17:54	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	12/09/2022 09:00	12/09/2022 17:54	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*105 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*94.2 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*101 %*	*79-122*

Calcium, Dissolved by EPA 6010

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	**Calcium**	**118**		mg/L	0.0556	1	EPA 6010D	12/08/2022 14:03	12/13/2022 15:50	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Chromium, Dissolved by EPA 6010

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	12/08/2022 14:03	12/13/2022 15:50	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Hardness, total (as CaCO3)

Log-in Notes: HT-04 **Sample Notes:**

Sample Information

Client Sample ID: MW109-GWS @35' **York Sample ID:** 22L0234-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22L0234	220192 27-09 40th Ave.	Water	December 1, 2022 6:27 pm	12/05/2022

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Hardness, Total	**409**		mg/L	1.11	1	SM 2340B-2011	12/07/2022 09:51	12/13/2022 19:01	CW
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP		

Magnesium, Dissolved by EPA 6010

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	**Magnesium**	**22.0**		mg/L	0.0556	1	EPA 6010D	12/08/2022 14:03	12/13/2022 15:50	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Arsenic, Dissolved by EPA 6020

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	**Arsenic**	**2.04**		ug/L	1.11	1	EPA 6020B	12/09/2022 10:34	12/13/2022 19:01	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Iron, Dissolved by EPA 6020

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	*** Iron**	**171**		ug/L	11.1	1	EPA 6020B	12/09/2022 10:34	12/13/2022 19:01	AJL
							Certifications:	CTDOH-PH-0723		

Manganese, Dissolved by EPA 6020

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	**Manganese**	**107**		ug/L	1.11	1	EPA 6020B	12/09/2022 10:34	12/13/2022 19:01	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Chloride

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	**Chloride**	**136**		mg/L	5.00	10	EPA 300.0	12/07/2022 02:54	12/07/2022 02:54	NJO
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Nitrate as N

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	**Nitrate as N**	**1.20**	HT-02	mg/L	0.0500	1	EPA 300.0	12/07/2022 02:54	12/07/2022 02:54	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP		

Sulfate as SO4

Log-in Notes: HT-04 **Sample Notes:**

Sample Information

Client Sample ID: MW109-GWS @35' **York Sample ID:** 22L0234-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22L0234	220192 27-09 40th Ave.	Water	December 1, 2022 6:27 pm	12/05/2022

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	**Sulfate**	**119**		mg/L	10.0	10	EPA 300.0	12/07/2022 02:54	12/07/2022 02:54	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP		

Alkalinity, Total **Log-in Notes:** HT-04 **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	**200**	CONT-02	mg/L	2.0	1	SM 2320B	12/12/2022 09:25	12/12/2022 14:05	VR
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP		

Sample Information

Client Sample ID: MW108-GWS @36' **York Sample ID:** 22L0234-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22L0234	220192 27-09 40th Ave.	Water	December 1, 2022 7:40 pm	12/05/2022

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 18:22	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 18:22	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 18:22	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 18:22	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 18:22	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 18:22	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 18:22	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 18:22	SA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 18:22	SA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: MW108-GWS @36' **York Sample ID:** 22L0234-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22L0234	220192 27-09 40th Ave.	Water	December 1, 2022 7:40 pm	12/05/2022

Volatile Organics, 8260 - Comprehensive

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/09/2022 18:22	SA
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 18:22	SA
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 18:22	SA
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 18:22	SA
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 18:22	SA
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 18:22	SA
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 18:22	SA
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 18:22	SA
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 18:22	SA
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 18:22	SA
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C Certifications:	12/09/2022 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/09/2022 18:22	SA
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 18:22	SA
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 18:22	SA
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 18:22	SA
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 18:22	SA
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 18:22	SA
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 18:22	SA
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 18:22	SA
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/09/2022 18:22	SA

Sample Information

Client Sample ID: MW108-GWS @36'

York Sample ID: 22L0234-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22L0234	220192 27-09 40th Ave.	Water	December 1, 2022 7:40 pm	12/05/2022

Volatile Organics, 8260 - Comprehensive

Log-in Notes: HT-04

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:22	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:22	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:22	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:22	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:22	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:22	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:22	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
67-66-3	**Chloroform**	**1.8**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:22	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:22	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
156-59-2	**cis-1,2-Dichloroethylene**	**0.52**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:22	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:22	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:22	SA NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:22	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:22	SA NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:22	SA NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:22	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:22	SA NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:22	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:22	SA NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP

Sample Information

Client Sample ID: MW108-GWS @36' **York Sample ID:** 22L0234-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22L0234	220192 27-09 40th Ave.	Water	December 1, 2022 7:40 pm	12/05/2022

Volatile Organics, 8260 - Comprehensive

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:22 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:22 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SA
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:22 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:22 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:22 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:22 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP	SA
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:22 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP	SA
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:22 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:22 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:22 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:22 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SA
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:22 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
127-18-4	**Tetrachloroethylene**	**1600**		ug/L	10	25	50	EPA 8260C Certifications:	12/13/2022 09:00	12/13/2022 12:45 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA	SA
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:22 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:22 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:22 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:22 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP	SA
79-01-6	**Trichloroethylene**	**10**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:22 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA	SA
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:22 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA

Sample Information

Client Sample ID: MW108-GWS @36' **York Sample ID:** 22L0234-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22L0234	220192 27-09 40th Ave.	Water	December 1, 2022 7:40 pm	12/05/2022

Volatile Organics, 8260 - Comprehensive

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 18:22	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	12/09/2022 09:00	12/09/2022 18:22	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*104 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*92.4 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*101 %*	*79-122*

Calcium, Dissolved by EPA 6010

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	**Calcium**	**134**		mg/L	0.0556	1	EPA 6010D	12/08/2022 14:03	12/13/2022 15:53	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Chromium, Dissolved by EPA 6010

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	12/08/2022 14:03	12/13/2022 15:53	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Hardness, total (as CaCO3)

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Hardness, Total	**561**		mg/L	1.11	1	SM 2340B-2011	12/07/2022 09:51	12/13/2022 19:05	CW
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP		

Magnesium, Dissolved by EPA 6010

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	**Magnesium**	**55.5**		mg/L	0.0556	1	EPA 6010D	12/08/2022 14:03	12/13/2022 15:53	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Arsenic, Dissolved by EPA 6020

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: MW108-GWS @36' **York Sample ID:** 22L0234-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22L0234	220192 27-09 40th Ave.	Water	December 1, 2022 7:40 pm	12/05/2022

Arsenic, Dissolved by EPA 6020

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	ND		ug/L	1.11	1	EPA 6020B	12/09/2022 10:34	12/13/2022 19:04	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Iron, Dissolved by EPA 6020

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	*** Iron**	**207**		ug/L	11.1	1	EPA 6020B	12/09/2022 10:34	12/13/2022 19:04	AJL
							Certifications:	CTDOH-PH-0723		

Manganese, Dissolved by EPA 6020

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	**Manganese**	**19.7**		ug/L	1.11	1	EPA 6020B	12/09/2022 10:34	12/13/2022 19:04	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Chloride

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	**Chloride**	**164**		mg/L	5.00	10	EPA 300.0	12/07/2022 03:04	12/07/2022 03:04	NJO
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Nitrate as N

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	**Nitrate as N**	**30.7**	HT-02	mg/L	0.500	10	EPA 300.0	12/07/2022 03:04	12/07/2022 03:04	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP		

Sulfate as SO4

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	**Sulfate**	**114**		mg/L	10.0	10	EPA 300.0	12/07/2022 03:04	12/07/2022 03:04	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP		

Alkalinity, Total

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: **MW108-GWS @36'** **York Sample ID:** **22L0234-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22L0234	220192 27-09 40th Ave.	Water	December 1, 2022 7:40 pm	12/05/2022

Alkalinity, Total **Log-in Notes:** HT-04 **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	**290**	CONT-02	mg/L	2.0	1	SM 2320B	12/12/2022 09:25	12/12/2022 14:05	VR
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP		

Sample Information

Client Sample ID: **MW106-GWS @37'** **York Sample ID:** **22L0234-06**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22L0234	220192 27-09 40th Ave.	Water	December 1, 2022 4:46 pm	12/05/2022

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 18:50	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 18:50	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 18:50	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 18:50	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 18:50	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 18:50	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
75-35-4	**1,1-Dichloroethylene**	**0.43**	J	ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 18:50	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 18:50	SA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 18:50	SA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 18:50	SA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 18:50	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		

Sample Information

Client Sample ID: MW106-GWS @37' **York Sample ID:** 22L0234-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22L0234	220192 27-09 40th Ave.	Water	December 1, 2022 4:46 pm	12/05/2022

Volatile Organics, 8260 - Comprehensive

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:50	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:50	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:50	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:50	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:50	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:50	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:50	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:50	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:50	SA NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:50	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:50	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:50	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:50	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:50	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:50	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:50	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:50	SA NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:50	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:50	SA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI

Sample Information

Client Sample ID: MW106-GWS @37'

York Sample ID: 22L0234-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22L0234	220192 27-09 40th Ave.	Water	December 1, 2022 4:46 pm	12/05/2022

Volatile Organics, 8260 - Comprehensive

Log-in Notes: HT-04

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:50 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:50 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:50 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:50 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:50 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
67-66-3	**Chloroform**	**1.5**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:50 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA	SA
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:50 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
156-59-2	**cis-1,2-Dichloroethylene**	**0.99**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:50 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA	SA
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:50 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:50 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SA
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:50 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:50 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SA
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:50 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SA
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:50 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:50 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SA
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:50 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:50 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SA
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:50 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:50 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SA

Sample Information

Client Sample ID: MW106-GWS @37'

York Sample ID: 22L0234-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22L0234	220192 27-09 40th Ave.	Water	December 1, 2022 4:46 pm	12/05/2022

Volatile Organics, 8260 - Comprehensive

Log-in Notes: HT-04

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:50 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:50 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:50 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:50 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP	SA
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:50 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP	SA
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:50 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:50 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:50 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
75-65-0	**tert-Butyl alcohol (TBA)**	**1.3**		ug/L	0.50	1.0	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:50 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SA
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:50 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
127-18-4	**Tetrachloroethylene**	**130**		ug/L	2.0	5.0	10	EPA 8260C Certifications:	12/12/2022 09:00	12/12/2022 16:40 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA	SA
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:50 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:50 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:50 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:50 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP	SA
79-01-6	**Trichloroethylene**	**2.2**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:50 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA	SA
75-69-4	**Trichlorofluoromethane**	**2.1**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:50 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA	SA
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:50 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:50 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP	SA

Surrogate Recoveries	Result	Acceptance Range

Sample Information

Client Sample ID: MW106-GWS @37' **York Sample ID:** 22L0234-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22L0234	220192 27-09 40th Ave.	Water	December 1, 2022 4:46 pm	12/05/2022

Volatile Organics, 8260 - Comprehensive

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*105 %*			*69-130*						
2037-26-5	*Surrogate: SURR: Toluene-d8*	*93.5 %*			*81-117*						
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*101 %*			*79-122*						

Calcium, Dissolved by EPA 6010

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	**Calcium**	**162**		mg/L	0.0556	1	EPA 6010D	12/08/2022 14:03	12/13/2022 15:57	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Chromium, Dissolved by EPA 6010

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-47-3	**Chromium**	**0.0234**		mg/L	0.00556	1	EPA 6010D	12/08/2022 14:03	12/13/2022 15:57	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Hardness, total (as CaCO3)

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Hardness, Total	**902**		mg/L	1.11	1	SM 2340B-2011	12/07/2022 09:51	12/13/2022 19:08	CW
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP		

Magnesium, Dissolved by EPA 6010

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	**Magnesium**	**94.4**		mg/L	0.0556	1	EPA 6010D	12/08/2022 14:03	12/13/2022 15:57	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Arsenic, Dissolved by EPA 6020

Log-in Notes: HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	**Arsenic**	**2.27**		ug/L	1.11	1	EPA 6020B	12/09/2022 10:34	12/13/2022 19:25	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Iron, Dissolved by EPA 6020

Log-in Notes: HT-04 **Sample Notes:**

Sample Information

Client Sample ID: MW106-GWS @37' **York Sample ID:** 22L0234-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22L0234	220192 27-09 40th Ave.	Water	December 1, 2022 4:46 pm	12/05/2022

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	* Iron	13700		ug/L	111	10	EPA 6020B	12/09/2022 10:34	12/14/2022 13:48	AJL
							Certifications:	CTDOH-PH-0723		

Manganese, Dissolved by EPA 6020 **Log-in Notes:** HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	Manganese	988		ug/L	11.1	10	EPA 6020B	12/09/2022 10:34	12/14/2022 13:48	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Chloride **Log-in Notes:** HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	Chloride	105		mg/L	5.00	10	EPA 300.0	12/07/2022 03:14	12/07/2022 03:14	NJO
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Nitrate as N **Log-in Notes:** HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	Nitrate as N	9.65	HT-02	mg/L	0.500	10	EPA 300.0	12/07/2022 03:14	12/07/2022 03:14	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP		

Sulfate as SO4 **Log-in Notes:** HT-04 **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	Sulfate	179		mg/L	10.0	10	EPA 300.0	12/07/2022 03:14	12/07/2022 03:14	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP		

Alkalinity, Total **Log-in Notes:** HT-04 **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	1000	CONT-02	mg/L	2.0	1	SM 2320B	12/12/2022 09:25	12/12/2022 14:05	VR
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP		

Sample Information

Client Sample ID: MW103-GWS @38' **York Sample ID:** 22L0234-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22L0234	220192 27-09 40th Ave.	Water	December 1, 2022 9:20 pm	12/05/2022

Sample Information

Client Sample ID: MW103-GWS @38'

York Sample ID: 22L0234-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22L0234	220192 27-09 40th Ave.	Water	December 1, 2022 9:20 pm	12/05/2022

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 18:13	SA
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 18:13	SA
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 18:13	SA
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 18:13	SA
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 18:13	SA
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 18:13	SA
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 18:13	SA
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/09/2022 18:13	SA
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/09/2022 18:13	SA
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	12/09/2022 18:13	SA
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 18:13	SA
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 18:13	SA
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 18:13	SA
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 18:13	SA
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 18:13	SA
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 18:13	SA
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 18:13	SA
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	12/09/2022 18:13	SA

Sample Information

Client Sample ID: MW103-GWS @38'

York Sample ID: 22L0234-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22L0234	220192 27-09 40th Ave.	Water	December 1, 2022 9:20 pm	12/05/2022

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:13 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
123-91-1	1,4-Dioxane	ND		ug/L	40	40	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:13 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SA
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:13 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:13 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:13 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:13 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:13 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:13 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:13 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:13 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SA
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:13 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:13 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:13 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
75-15-0	**Carbon disulfide**	**0.40**	J	ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:13 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA	SA
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:13 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:13 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:13 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:13 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
74-87-3	**Chloromethane**	**0.47**	J	ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:13 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA	SA

Sample Information

Client Sample ID: **MW103-GWS @38'** **York Sample ID:** **22L0234-07**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22L0234	220192 27-09 40th Ave.	Water	December 1, 2022 9:20 pm	12/05/2022

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	**cis-1,2-Dichloroethylene**	**1.2**		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 18:13	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA		
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 18:13	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 18:13	SA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 18:13	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 18:13	SA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 18:13	SA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 18:13	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 18:13	SA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 18:13	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 18:13	SA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 18:13	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 18:13	SA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	12/09/2022 09:00	12/09/2022 18:13	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 18:13	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 18:13	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 18:13	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP		
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	12/09/2022 09:00	12/09/2022 18:13	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP		
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 18:13	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	12/09/2022 09:00	12/09/2022 18:13	SA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		

Sample Information

Client Sample ID: MW103-GWS @38' **York Sample ID:** 22L0234-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22L0234	220192 27-09 40th Ave.	Water	December 1, 2022 9:20 pm	12/05/2022

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:13 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:13 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SA
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:13 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
127-18-4	**Tetrachloroethylene**	**30**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:13 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA	SA
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:13 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:13 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:13 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:13 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP	SA
79-01-6	**Trichloroethylene**	**1.5**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:13 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA	SA
75-69-4	**Trichlorofluoromethane**	**0.41**	J	ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:13 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA	SA
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:13 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SA
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications:	12/09/2022 09:00	12/09/2022 18:13 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP	SA

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*96.2 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*99.3 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*102 %*	*79-122*

Sample Information

Client Sample ID: IW-1 GWS @42' **York Sample ID:** 22L0234-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22L0234	220192 27-09 40th Ave.	Water	December 1, 2022 1:45 pm	12/05/2022

Calcium, Dissolved by EPA 6010 **Log-in Notes:** **Sample Notes:**

Sample Information

Client Sample ID: IW-1 GWS @42' **York Sample ID:** 22L0234-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
22L0234	220192 27-09 40th Ave.	Water	December 1, 2022 1:45 pm	12/05/2022

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	**Calcium**	**0.770**		mg/L	0.0556	1	EPA 6010D	12/08/2022 14:03	12/13/2022 16:01	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Chromium, Dissolved by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-47-3	**Chromium**	**3.73**		mg/L	0.00556	1	EPA 6010D	12/08/2022 14:03	12/13/2022 16:01	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Magnesium, Dissolved by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	Magnesium	ND		mg/L	0.0556	1	EPA 6010D	12/08/2022 14:03	12/13/2022 16:01	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Arsenic, Dissolved by EPA 6020

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	**Arsenic**	**670**		ug/L	1.11	1	EPA 6020B	12/09/2022 10:34	12/13/2022 19:28	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Iron, Dissolved by EPA 6020

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	*** Iron**	**226**		ug/L	11.1	1	EPA 6020B	12/09/2022 10:34	12/13/2022 19:28	AJL
							Certifications:	CTDOH-PH-0723		

Manganese, Dissolved by EPA 6020

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	**Manganese**	**975**		ug/L	22.2	20	EPA 6020B	12/09/2022 10:34	12/14/2022 13:52	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
22L0234-01	IW-1 GWS @42'	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
22L0234-02	IW-2 GWS @40'	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
22L0234-03	MW110-GWS @37'	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
22L0234-04	MW109-GWS @35'	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
22L0234-05	MW108-GWS @36'	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
22L0234-06	MW106-GWS @37'	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
22L0234-07	MW103-GWS @38'	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

QR-04	The RPD exceeded control limits for the LCS/LCSD QC.
QR-01	Analyses are not controlled on RPD values from sample concentrations less than 10 times the reporting limit. QC batch accepted based on LCS and/or LCSD QC results.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM-05	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data are acceptable.
QM-04	Visual evaluation of the sample indicates the RPD is above the control limit due to a non-homogeneous sample matrix.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
M-SPKM	The spike recovery is not within acceptance windows due to sample non-homogeneity, or matrix interference.
M-PS	This Element exhibted recovery outside control limits for the Post Spike.
M-DUPS	The RPD between the native sample and the duplicate is outside of limits due to sample non-homogeneity
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
ICVE	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).
HT-04	NON-COMPLIANT- Client requested analysis be conducted outside of holding times.
HT-02	NON-COMPLIANT-This sample was received outside the EPA recommended holding time.
CONT-02	Alkalinity was performed on a sample from a container with head space.
CCVE	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon current NELAC/TNI Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis

Low Bias — Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias — High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. — Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

Corrective Action: The lab received 2 HCl vials only for sample ME-103-GWS@38, no other containers were received for this sample. The client was contacted and confirmed. The lab will proceed with VOCs only. Nitrate received out of hold and advised to proceed.

Samples -01 and -02 were cancelled for alkalinity analysis by the lab on 12/8/22 due to very high pH. The client was notified.

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615
132-02 89th Ave, Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 22L0234

YOUR Information	Report To:	Invoice To:
Company: Liberty Environmental	Company: same	Company:
Address: 600 Third Ave, 2nd Floor New York, NY	Address:	Address:
Phone: 203 850 2149	Phone:	Phone:
Contact: Yasani Spencer	Contact: Craig Herr	Contact:
E-mail: yspencer@libertyenviro.com	E-mail: yspencer@libertyenviro.com	E-mail: cherr@libertyenviro.com

YOUR Project Number: 220192

YOUR Project Name: 27-09 40th Ave.

YOUR PO#:

Turn-Around Time

RUSH - Next Day	
RUSH - Two Day	
RUSH - Three Day	
RUSH - Four Day	
Standard (5-7 Day)	X

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Samples Collected by: (print your name above and sign below)
Yasani Spencer

Matrix Codes

S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil | Other

Samples From

New York	X
New Jersey	
Connecticut	
Pennsylvania	
Other	

Report / EDD Type (circle selections)

Summary Report; QA Report; NY ASP A Package; NY ASP B Package; CT RCP; CT RCP DQA/DUE; NJDEP Reduced Deliverables; NJDKQP; Standard Excel EDD; EQuIS (Standard); NYSDEC EQuIS; NJDEP SRP HazSite; Other:

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
[redacted] IW-1 GWS @ 42'	GW	11.23.22@1726	Alk, Hardness, [redacted], VOCs, Anions	Plastic-500mL x1 @100mL x1, G-3x40mL
IW2-GWS @ 40'	GW	11.23.22@1752	Alk, Hardness, [redacted], VOCs, Anions, TAMs	P: 1x500mL, 1x200mL G: 3x40mL
MW110-GWS @ [redacted]37'	GW	12.01.22@1738	Alk, Hardness, TAMs, VOCs, Anions	P: 1x500mL, 2x200mL G: 3x40mL
MW109-GWS @ 35'	GW	12.01.22@1827	Alk, Hardness, TAMs, VOCs, Anions	P: 1x500mL, 2x200mL G: 3x40mL
MW108-GWS @ 36'	GW	12.01.22@1940	Alk, Hardness, TAMs, VOCs, Anions	P: 1x500mL 2x200mL G: 3x40mL
MW106-GWS @ 37'	GW	12.01.22@1646	Alk, Hardness, TAMs, VOCs, Anions	P: 1x500mL 2x200mL G: 3x40mL
MW103-GWS @ 38'	GW	12.01.22@2120	Alk, Hardness, TAMs, VOCs, Anions	P: 1x500mL 2x200mL G: 3x40mL
IW-1 GWS @ 42'	GW	[redacted]@1345	TAMs (attempted field filter) [redacted]	

Comments:
- All VOCs analyzed
- Alk = Alkalinity
- TAMs include arsenic, chromium, iron, calcium, magnesium & manganese
- Anions include chloride, sulfate, nitrate
- If filtered, noted on sample label

Preservation: (check all that apply)
HCl X MeOH ___ HNO_3 X H_2SO_4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: None

Special Instruction
Field Filtered ___
Lab to Filter ___

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
Yasani Spencer/Liberty Enviro	12/02/22 1805	YORK	Ice 9.7°C 12/02/22 1805		
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
NY York	12/5/22 18:0	MAN York	12/5/22 2020		
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by	Date/Time
				KBlock	12/5/22 2020

Temp. Received at Lab: 4.1 Degrees C

APPENDIX E.3

Groundwater Data Analytical Report February 14, 2023

Technical Report

prepared for:

Liberty Environmental, Inc
505 Penn St., Suite 400
Reading PA, 19601
Attention: James P. Cinelli

Report Date: 02/28/2023
Client Project ID: 220192 27-09 40th Ave.
York Project (SDG) No.: 23B0840

Report Date: 02/28/2023
Client Project ID: 220192 27-09 40th Ave.
York Project (SDG) No.: 23B0840

Liberty Environmental, Inc
505 Penn St., Suite 400
Reading PA, 19601
Attention: James P. Cinelli

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on February 15, 2023 and listed below. The project was identified as your project: **220192 27-09 40th Ave.**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Sample and Analysis Qualifiers section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the Sample and Data Qualifiers Relating to This Work Order section of this report and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
23B0840-01	MW-108	Water	02/14/2023	02/15/2023
23B0840-02	MW-107	Water	02/14/2023	02/15/2023
23B0840-03	MW-105	Water	02/14/2023	02/15/2023
23B0840-04	MW-106	Water	02/14/2023	02/15/2023
23B0840-05	IW-1	Water	02/14/2023	02/15/2023

General Notes for York Project (SDG) No.: 23B0840

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All analyses conducted met method or Laboratory SOP requirements. See the Sample and Data Qualifiers Section for further information.
6. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
7. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.
8. Analyses conducted at York Analytical Laboratories, Inc. Stratford, CT are indicated by NY Cert. No. 10854; those conducted at York Analytical Laboratories, Inc., Richmond Hill, NY are indicated by NY Cert. No. 12058.

Approved By: **Date:** 02/28/2023

Cassie L. Mosher
Laboratory Manager

Sample Information

Client Sample ID: MW-108 **York Sample ID:** 23B0840-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23B0840	220192 27-09 40th Ave.	Water	February 14, 2023 9:28 am	02/15/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 17:52	SMA
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 17:52	SMA
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 17:52	SMA
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 17:52	SMA
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 17:52	SMA
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 17:52	SMA
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 17:52	SMA
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/25/2023 17:52	SMA
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/25/2023 17:52	SMA
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/25/2023 17:52	SMA
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 17:52	SMA
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 17:52	SMA
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 17:52	SMA
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 17:52	SMA
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 17:52	SMA
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 17:52	SMA
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 17:52	SMA
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 17:52	SMA

Sample Information

Client Sample ID: MW-108 **York Sample ID:** 23B0840-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23B0840	220192 27-09 40th Ave.	Water	February 14, 2023 9:28 am	02/15/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 17:52	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
123-91-1	1,4-Dioxane	ND	CCVE	ug/L	40	40	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 17:52	SMA NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
78-93-3	**2-Butanone**	**0.83**	CCVE	ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 17:52	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
591-78-6	2-Hexanone	ND	CCVE	ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 17:52	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
108-10-1	**4-Methyl-2-pentanone**	**0.68**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 17:52	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
67-64-1	**Acetone**	**3.9**	CCVE	ug/L	1.0	2.0	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 17:52	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 17:52	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 17:52	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 17:52	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 17:52	SMA NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-27-4	**Bromodichloromethane**	**1.5**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 17:52	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
75-25-2	**Bromoform**	**0.50**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 17:52	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 17:52	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 17:52	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 17:52	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 17:52	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 17:52	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
67-66-3	**Chloroform**	**2.4**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 17:52	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 17:52	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI

Sample Information

Client Sample ID: **MW-108** **York Sample ID:** **23B0840-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23B0840	220192 27-09 40th Ave.	Water	February 14, 2023 9:28 am	02/15/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 17:52	SMA
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 17:52	SMA
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/25/2023 17:52	SMA
124-48-1	**Dibromochloromethane**	**1.5**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA	02/25/2023 17:52	SMA
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/25/2023 17:52	SMA
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/25/2023 17:52	SMA
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 17:52	SMA
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/25/2023 17:52	SMA
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 17:52	SMA
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/25/2023 17:52	SMA
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 17:52	SMA
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/25/2023 17:52	SMA
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 17:52	SMA
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 17:52	SMA
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 17:52	SMA
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP	02/25/2023 17:52	SMA
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP	02/25/2023 17:52	SMA
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 17:52	SMA
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 17:52	SMA

Sample Information

Client Sample ID: **MW-108** **York Sample ID:** **23B0840-01**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23B0840	220192 27-09 40th Ave.	Water	February 14, 2023 9:28 am	02/15/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 17:52	SMA
75-65-0	**tert-Butyl alcohol (TBA)**	**4.4**	CCVE	ug/L	0.50	1.0	1	EPA 8260C Certifications:	02/25/2023 07:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/25/2023 17:52	SMA
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 17:52	SMA
127-18-4	**Tetrachloroethylene**	**3.0**	CCVE, QL-02	ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA	02/25/2023 17:52	SMA
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 17:52	SMA
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 17:52	SMA
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 17:52	SMA
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP	02/25/2023 17:52	SMA
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 17:52	SMA
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 17:52	SMA
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 17:52	SMA
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP	02/25/2023 17:52	SMA

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*99.9 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*100 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*101 %*	*79-122*

Calcium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	**Calcium**	**47.6**	B	mg/L	0.0556	1	EPA 6010D Certifications:	02/23/2023 08:53 CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP	02/24/2023 17:30	CW

Chromium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: MW-108 **York Sample ID:** 23B0840-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23B0840	220192 27-09 40th Ave.	Water	February 14, 2023 9:28 am	02/15/2023

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	02/23/2023 08:53	02/24/2023 17:30	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Hardness, total (as CaCO3)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Hardness, Total	**188**		mg/L	1.11	1	SM 2340B-2011	02/22/2023 08:37	02/22/2023 18:26	CW
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP		

Magnesium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	**Magnesium**	**17.2**		mg/L	0.0556	1	EPA 6010D	02/23/2023 08:53	02/24/2023 17:30	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Arsenic by EPA 6020

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	**Arsenic**	**2.83**		ug/L	1.11	1	EPA 6020B	02/23/2023 11:01	02/24/2023 10:56	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Iron by EPA 6020

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	*** Iron**	**12800**		ug/L	111	10	EPA 6020B	02/23/2023 11:01	02/26/2023 18:55	AJL
							Certifications:	CTDOH-PH-0723		

Manganese by EPA 6020

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	**Manganese**	**209**		ug/L	11.1	10	EPA 6020B	02/23/2023 11:01	02/26/2023 18:55	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Chloride

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	**Chloride**	**59.3**		mg/L	0.690	5.00	10	EPA 300.0	02/17/2023 00:37	02/17/2023 00:37	NJO
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP			

Nitrate as N

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: MW-108 **York Sample ID:** 23B0840-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23B0840	220192 27-09 40th Ave.	Water	February 14, 2023 9:28 am	02/15/2023

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	**Nitrate as N**	**3.94**		mg/L	0.0500	1	EPA 300.0	02/15/2023 20:02	02/15/2023 20:02	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP		

Sulfate as SO4 **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	**Sulfate**	**12.4**		mg/L	1.00	1	EPA 300.0	02/15/2023 20:02	02/15/2023 20:02	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP		

Alkalinity, Total **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	**44**	CONT-02	mg/L	2.0	1	SM 2320B	02/21/2023 07:26	02/21/2023 13:51	VR
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP		

Sample Information

Client Sample ID: MW-107 **York Sample ID:** 23B0840-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23B0840	220192 27-09 40th Ave.	Water	February 14, 2023 12:08 pm	02/15/2023

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 18:19	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 18:19	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 18:19	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 18:19	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 18:19	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 18:19	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		

Sample Information

Client Sample ID: MW-107 **York Sample ID:** 23B0840-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23B0840	220192 27-09 40th Ave.	Water	February 14, 2023 12:08 pm	02/15/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:19	SMA
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/25/2023 18:19	SMA
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/25/2023 18:19	SMA
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/25/2023 18:19	SMA
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:19	SMA
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:19	SMA
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:19	SMA
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:19	SMA
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:19	SMA
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:19	SMA
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:19	SMA
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:19	SMA
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:19	SMA
123-91-1	1,4-Dioxane	ND	CCVE	ug/L	40	40	1	EPA 8260C Certifications:	02/25/2023 07:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/25/2023 18:19	SMA
78-93-3	2-Butanone	ND	CCVE	ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:19	SMA
591-78-6	2-Hexanone	ND	CCVE	ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:19	SMA
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:19	SMA
67-64-1	**Acetone**	**1.8**	CCVE, J	ug/L	1.0	2.0	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA	02/25/2023 18:19	SMA
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:19	SMA

Sample Information

Client Sample ID: MW-107 **York Sample ID:** 23B0840-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23B0840	220192 27-09 40th Ave.	Water	February 14, 2023 12:08 pm	02/15/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 18:19	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 18:19	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 18:19	SMA NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 18:19	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 18:19	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 18:19	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 18:19	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 18:19	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 18:19	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 18:19	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
67-66-3	**Chloroform**	**0.43**	J	ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 18:19	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 18:19	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
156-59-2	**cis-1,2-Dichloroethylene**	**0.35**	J	ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 18:19	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 18:19	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 18:19	SMA NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 18:19	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 18:19	SMA NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 18:19	SMA NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 18:19	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI

Sample Information

Client Sample ID: MW-107 **York Sample ID:** 23B0840-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23B0840	220192 27-09 40th Ave.	Water	February 14, 2023 12:08 pm	02/15/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/25/2023 18:19	SMA
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:19	SMA
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/25/2023 18:19	SMA
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:19	SMA
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/25/2023 18:19	SMA
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:19	SMA
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:19	SMA
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:19	SMA
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP	02/25/2023 18:19	SMA
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP	02/25/2023 18:19	SMA
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:19	SMA
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:19	SMA
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:19	SMA
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE	ug/L	0.50	1.0	1	EPA 8260C Certifications:	02/25/2023 07:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/25/2023 18:19	SMA
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:19	SMA
127-18-4	**Tetrachloroethylene**	**110**	CCVE, ICVE, QL-02	ug/L	10	25	50	EPA 8260C Certifications:	02/27/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA	02/27/2023 13:34	SMA
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:19	SMA
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:19	SMA
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:19	SMA

Sample Information

Client Sample ID: MW-107 **York Sample ID:** 23B0840-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23B0840	220192 27-09 40th Ave.	Water	February 14, 2023 12:08 pm	02/15/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 18:19	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP		
79-01-6	**Trichloroethylene**	**1.6**		ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 18:19	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA		
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 18:19	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 18:19	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	02/25/2023 07:00	02/25/2023 18:19	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*100 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*101 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*105 %*	*79-122*

Calcium by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	**Calcium**	**165**	B	mg/L	0.0556	1	EPA 6010D	02/23/2023 08:53	02/24/2023 17:33	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Chromium by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	02/23/2023 08:53	02/24/2023 17:33	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Hardness, total (as CaCO3)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Hardness, Total	**656**		mg/L	1.11	1	SM 2340B-2011	02/22/2023 08:37	02/22/2023 18:28	CW
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP		

Magnesium by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: **MW-107** **York Sample ID:** **23B0840-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23B0840	220192 27-09 40th Ave.	Water	February 14, 2023 12:08 pm	02/15/2023

Magnesium by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	**Magnesium**	**70.3**		mg/L	0.0556	1	EPA 6010D	02/23/2023 08:53	02/24/2023 17:33	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Arsenic by EPA 6020

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	ND		ug/L	1.11	1	EPA 6020B	02/23/2023 11:01	02/24/2023 10:59	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Iron by EPA 6020

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	*** Iron**	**1040**		ug/L	11.1	1	EPA 6020B	02/23/2023 11:01	02/24/2023 10:59	AJL
							Certifications:	CTDOH-PH-0723		

Manganese by EPA 6020

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	**Manganese**	**625**		ug/L	11.1	10	EPA 6020B	02/23/2023 11:01	02/26/2023 18:58	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Chloride

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	**Chloride**	**325**		mg/L	0.690	5.00	10	EPA 300.0	02/17/2023 01:07	02/17/2023 01:07	NJO
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Nitrate as N

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	**Nitrate as N**	**19.8**	HT-01R	mg/L	0.500	10	EPA 300.0	02/17/2023 01:07	02/17/2023 01:07	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP		

Sulfate as SO4

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst

Sample Information

Client Sample ID: MW-107 **York Sample ID:** 23B0840-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23B0840	220192 27-09 40th Ave.	Water	February 14, 2023 12:08 pm	02/15/2023

Sulfate as SO4

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	**Sulfate**	**101**		mg/L	10.0	10	EPA 300.0	02/17/2023 01:07	02/17/2023 01:07	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP		

Alkalinity, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	**380**	CONT-02	mg/L	2.0	1	SM 2320B	02/21/2023 07:26	02/21/2023 13:51	VR
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP		

Sample Information

Client Sample ID: MW-105 **York Sample ID:** 23B0840-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23B0840	220192 27-09 40th Ave.	Water	February 14, 2023 11:29 am	02/15/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 18:46	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 18:46	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 18:46	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 18:46	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 18:46	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 18:46	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 18:46	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 18:46	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		

Sample Information

Client Sample ID: **MW-105** **York Sample ID:** **23B0840-03**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23B0840	220192 27-09 40th Ave.	Water	February 14, 2023 11:29 am	02/15/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/25/2023 18:46	SMA
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/25/2023 18:46	SMA
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:46	SMA
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:46	SMA
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:46	SMA
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:46	SMA
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:46	SMA
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:46	SMA
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:46	SMA
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:46	SMA
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:46	SMA
123-91-1	1,4-Dioxane	ND	CCVE	ug/L	40	40	1	EPA 8260C Certifications:	02/25/2023 07:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/25/2023 18:46	SMA
78-93-3	2-Butanone	ND	CCVE	ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:46	SMA
591-78-6	2-Hexanone	ND	CCVE	ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:46	SMA
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:46	SMA
67-64-1	**Acetone**	**2.2**	CCVE	ug/L	1.0	2.0	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA	02/25/2023 18:46	SMA
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:46	SMA
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:46	SMA
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:46	SMA

Sample Information

Client Sample ID: MW-105 **York Sample ID:** 23B0840-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23B0840	220192 27-09 40th Ave.	Water	February 14, 2023 11:29 am	02/15/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/25/2023 18:46	SMA
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:46	SMA
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:46	SMA
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:46	SMA
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:46	SMA
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:46	SMA
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:46	SMA
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:46	SMA
67-66-3	**Chloroform**	**0.79**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA	02/25/2023 18:46	SMA
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:46	SMA
156-59-2	**cis-1,2-Dichloroethylene**	**1.4**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA	02/25/2023 18:46	SMA
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:46	SMA
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/25/2023 18:46	SMA
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:46	SMA
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/25/2023 18:46	SMA
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/25/2023 18:46	SMA
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:46	SMA
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/25/2023 18:46	SMA
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:46	SMA

Sample Information

Client Sample ID: MW-105 **York Sample ID:** 23B0840-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23B0840	220192 27-09 40th Ave.	Water	February 14, 2023 11:29 am	02/15/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/25/2023 18:46	SMA
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:46	SMA
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/25/2023 18:46	SMA
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:46	SMA
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:46	SMA
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:46	SMA
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP	02/25/2023 18:46	SMA
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP	02/25/2023 18:46	SMA
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:46	SMA
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:46	SMA
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:46	SMA
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE	ug/L	0.50	1.0	1	EPA 8260C Certifications:	02/25/2023 07:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/25/2023 18:46	SMA
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:46	SMA
127-18-4	**Tetrachloroethylene**	**68**	CCVE, ICVE, QL-02	ug/L	10	25	50	EPA 8260C Certifications:	02/27/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA	02/27/2023 14:01	SMA
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:46	SMA
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:46	SMA
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 18:46	SMA
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP	02/25/2023 18:46	SMA
79-01-6	**Trichloroethylene**	**2.2**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA	02/25/2023 18:46	SMA

Sample Information

Client Sample ID: MW-105 **York Sample ID:** 23B0840-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23B0840	220192 27-09 40th Ave.	Water	February 14, 2023 11:29 am	02/15/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-69-4	**Trichlorofluoromethane**	**0.38**	J	ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 18:46	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA		
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 18:46	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	02/25/2023 07:00	02/25/2023 18:46	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*97.8 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*100 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*104 %*	*79-122*

Calcium by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	**Calcium**	**241**	B	mg/L	0.0556	1	EPA 6010D	02/23/2023 08:53	02/24/2023 17:36	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Chromium by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-47-3	**Chromium**	**0.00603**		mg/L	0.00556	1	EPA 6010D	02/23/2023 08:53	02/24/2023 17:36	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Hardness, total (as CaCO3)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Hardness, Total	**982**		mg/L	1.11	1	SM 2340B-2011	02/22/2023 08:37	02/22/2023 18:31	CW
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP		

Magnesium by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	**Magnesium**	**103**		mg/L	0.0556	1	EPA 6010D	02/23/2023 08:53	02/24/2023 17:36	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Arsenic by EPA 6020

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: MW-105 **York Sample ID:** 23B0840-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23B0840	220192 27-09 40th Ave.	Water	February 14, 2023 11:29 am	02/15/2023

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	ND		ug/L	1.11	1	EPA 6020B	02/23/2023 11:01	02/24/2023 11:03	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Iron by EPA 6020

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	*** Iron**	**6000**		ug/L	11.1	1	EPA 6020B	02/23/2023 11:01	02/24/2023 11:03	AJL
							Certifications:	CTDOH-PH-0723		

Manganese by EPA 6020

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	**Manganese**	**1600**		ug/L	22.2	20	EPA 6020B	02/23/2023 11:01	02/26/2023 19:02	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Chloride

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	**Chloride**	**556**		mg/L	0.690	5.00	10	EPA 300.0	02/17/2023 01:17	02/17/2023 01:17	NJO
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Nitrate as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	**Nitrate as N**	**33.7**	HT-01R	mg/L	0.500	10	EPA 300.0	02/17/2023 01:17	02/17/2023 01:17	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP		

Sulfate as SO4

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	**Sulfate**	**156**		mg/L	10.0	10	EPA 300.0	02/17/2023 01:17	02/17/2023 01:17	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP		

Alkalinity, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	**270**	CONT-02	mg/L	2.0	1	SM 2320B	02/21/2023 07:26	02/21/2023 13:51	VR
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP		

Sample Information

Client Sample ID: MW-105 **York Sample ID:** 23B0840-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23B0840	220192 27-09 40th Ave.	Water	February 14, 2023 11:29 am	02/15/2023

Sample Information

Client Sample ID: MW-106 **York Sample ID:** 23B0840-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23B0840	220192 27-09 40th Ave.	Water	February 14, 2023 1:30 pm	02/15/2023

Volatile Organics, 8260 - Comprehensive **Log-in Notes:** **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 19:13	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 19:13	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 19:13	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 19:13	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 19:13	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 19:13	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 19:13	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 19:13	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 19:13	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 19:13	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 19:13	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 19:13	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 19:13	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 19:13	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 19:13	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		

Sample Information

Client Sample ID: MW-106 **York Sample ID:** 23B0840-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23B0840	220192 27-09 40th Ave.	Water	February 14, 2023 1:30 pm	02/15/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 19:13 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SMA
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 19:13 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SMA
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 19:13 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SMA
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 19:13 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SMA
123-91-1	1,4-Dioxane	ND	CCVE	ug/L	40	40	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 19:13 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SMA
78-93-3	2-Butanone	ND	CCVE	ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 19:13 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SMA
591-78-6	2-Hexanone	ND	CCVE	ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 19:13 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SMA
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 19:13 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SMA
67-64-1	**Acetone**	**2.6**	CCVE	ug/L	1.0	2.0	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 19:13 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA	SMA
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 19:13 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SMA
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 19:13 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SMA
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 19:13 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SMA
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 19:13 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	SMA
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 19:13 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SMA
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 19:13 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SMA
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 19:13 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SMA
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 19:13 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SMA
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 19:13 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SMA
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 19:13 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	SMA

Sample Information

Client Sample ID: **MW-106** **York Sample ID:** **23B0840-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23B0840	220192 27-09 40th Ave.	Water	February 14, 2023 1:30 pm	02/15/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 19:13	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
67-66-3	**Chloroform**	**2.8**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 19:13	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 19:13	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
156-59-2	**cis-1,2-Dichloroethylene**	**0.41**	J	ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 19:13	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 19:13	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 19:13	SMA NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 19:13	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 19:13	SMA NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 19:13	SMA NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 19:13	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 19:13	SMA NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 19:13	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 19:13	SMA NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 19:13	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 19:13	SMA NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 19:13	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 19:13	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 19:13	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 19:13	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP

Sample Information

Client Sample ID: MW-106 **York Sample ID:** 23B0840-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23B0840	220192 27-09 40th Ave.	Water	February 14, 2023 1:30 pm	02/15/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP	02/25/2023 19:13	SMA
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 19:13	SMA
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 19:13	SMA
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 19:13	SMA
75-65-0	**tert-Butyl alcohol (TBA)**	**1.5**	CCVE	ug/L	0.50	1.0	1	EPA 8260C Certifications:	02/25/2023 07:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/25/2023 19:13	SMA
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 19:13	SMA
127-18-4	**Tetrachloroethylene**	**66**	CCVE, ICVE, QL-02	ug/L	5.0	12	25	EPA 8260C Certifications:	02/27/2023 08:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA	02/27/2023 14:28	SMA
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 19:13	SMA
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 19:13	SMA
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 19:13	SMA
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP	02/25/2023 19:13	SMA
79-01-6	**Trichloroethylene**	**1.4**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA	02/25/2023 19:13	SMA
75-69-4	**Trichlorofluoromethane**	**0.85**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA	02/25/2023 19:13	SMA
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 19:13	SMA
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP	02/25/2023 19:13	SMA

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*96.5 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*101 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*104 %*	*79-122*

Calcium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: MW-106 **York Sample ID:** 23B0840-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23B0840	220192 27-09 40th Ave.	Water	February 14, 2023 1:30 pm	02/15/2023

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	**Calcium**	**105**	B	mg/L	0.0556	1	EPA 6010D	02/23/2023 08:53	02/24/2023 17:44	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Chromium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-47-3	Chromium	ND		mg/L	0.00556	1	EPA 6010D	02/23/2023 08:53	02/24/2023 17:44	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Hardness, total (as CaCO3)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Hardness, Total	**477**		mg/L	1.11	1	SM 2340B-2011	02/22/2023 08:37	02/22/2023 18:34	CW
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP		

Magnesium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	**Magnesium**	**54.5**		mg/L	0.0556	1	EPA 6010D	02/23/2023 08:53	02/24/2023 17:44	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Arsenic by EPA 6020

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	Arsenic	ND		ug/L	1.11	1	EPA 6020B	02/23/2023 11:01	02/24/2023 11:06	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Iron by EPA 6020

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	*** Iron**	**2410**		ug/L	11.1	1	EPA 6020B	02/23/2023 11:01	02/24/2023 11:06	AJL
							Certifications:	CTDOH-PH-0723		

Manganese by EPA 6020

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	**Manganese**	**1220**		ug/L	22.2	20	EPA 6020B	02/23/2023 11:01	02/26/2023 19:05	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Sample Information

Client Sample ID: MW-106 **York Sample ID:** 23B0840-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23B0840	220192 27-09 40th Ave.	Water	February 14, 2023 1:30 pm	02/15/2023

Chloride

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	**Chloride**	**126**		mg/L	0.690	5.00	10	EPA 300.0	02/17/2023 01:26	02/17/2023 01:26	NJO
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Nitrate as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	**Nitrate as N**	**5.83**		mg/L	0.0500	1	EPA 300.0	02/15/2023 20:49	02/15/2023 20:49	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP		

Sulfate as SO4

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	**Sulfate**	**85.3**		mg/L	10.0	10	EPA 300.0	02/17/2023 01:26	02/17/2023 01:26	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP		

Alkalinity, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	**300**	CONT-02	mg/L	2.0	1	SM 2320B	02/21/2023 07:26	02/21/2023 13:51	VR
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP		

Sample Information

Client Sample ID: IW-1 **York Sample ID:** 23B0840-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23B0840	220192 27-09 40th Ave.	Water	February 14, 2023 12:41 pm	02/15/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 19:40	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 19:40	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		

Sample Information

Client Sample ID: IW-1 **York Sample ID:** 23B0840-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23B0840	220192 27-09 40th Ave.	Water	February 14, 2023 12:41 pm	02/15/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 19:40	SMA
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 19:40	SMA
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 19:40	SMA
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 19:40	SMA
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 19:40	SMA
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/25/2023 19:40	SMA
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/25/2023 19:40	SMA
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/25/2023 19:40	SMA
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 19:40	SMA
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 19:40	SMA
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 19:40	SMA
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 19:40	SMA
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 19:40	SMA
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 19:40	SMA
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 19:40	SMA
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 19:40	SMA
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI	02/25/2023 19:40	SMA
123-91-1	1,4-Dioxane	ND	CCVE	ug/L	40	40	1	EPA 8260C Certifications:	02/25/2023 07:00 NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP	02/25/2023 19:40	SMA
78-93-3	**2-Butanone**	**0.64**	CCVE	ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00 CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA	02/25/2023 19:40	SMA

Sample Information

Client Sample ID: IW-1 **York Sample ID:** 23B0840-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23B0840	220192 27-09 40th Ave.	Water	February 14, 2023 12:41 pm	02/15/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
591-78-6	2-Hexanone	ND	CCVE	ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 19:40	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 19:40	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
67-64-1	**Acetone**	**2.9**	CCVE	ug/L	1.0	2.0	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 19:40	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 19:40	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 19:40	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 19:40	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 19:40	SMA NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP
75-27-4	**Bromodichloromethane**	**0.22**	J	ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 19:40	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 19:40	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 19:40	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 19:40	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 19:40	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 19:40	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 19:40	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
67-66-3	**Chloroform**	**1.0**		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 19:40	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 19:40	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 19:40	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 19:40	SMA CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C Certifications:	02/25/2023 07:00	02/25/2023 19:40	SMA NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP

Sample Information

Client Sample ID: IW-1 **York Sample ID:** 23B0840-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23B0840	220192 27-09 40th Ave.	Water	February 14, 2023 12:41 pm	02/15/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
124-48-1	**Dibromochloromethane**	**0.21**	J	ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 19:40	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA		
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 19:40	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 19:40	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 19:40	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 19:40	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 19:40	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 19:40	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 19:40	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 19:40	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	02/25/2023 07:00	02/25/2023 19:40	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 19:40	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 19:40	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 19:40	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP		
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	02/25/2023 07:00	02/25/2023 19:40	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,PADEP		
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 19:40	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 19:40	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 19:40	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
75-65-0	tert-Butyl alcohol (TBA)	ND	CCVE	ug/L	0.50	1.0	1	EPA 8260C	02/25/2023 07:00	02/25/2023 19:40	SMA
								Certifications:	NELAC-NY10854,NELAC-NY12058,NJDEP,PADEP		
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 19:40	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		

Sample Information

Client Sample ID: IW-1 **York Sample ID:** 23B0840-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23B0840	220192 27-09 40th Ave.	Water	February 14, 2023 12:41 pm	02/15/2023

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
127-18-4	**Tetrachloroethylene**	**19**	CCVE, QL-02	ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 19:40	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA		
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 19:40	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 19:40	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 19:40	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
110-57-6	trans-1,4-dichloro-2-butene	ND		ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 19:40	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP		
79-01-6	**Trichloroethylene**	**0.33**	J	ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 19:40	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA		
75-69-4	**Trichlorofluoromethane**	**0.29**	J	ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 19:40	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PA		
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	02/25/2023 07:00	02/25/2023 19:40	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP,PAI		
1330-20-7	Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	02/25/2023 07:00	02/25/2023 19:40	SMA
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NELAC-NY12058,NJDEP		

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: SURR: 1,2-Dichloroethane-d4*	*97.3 %*	*69-130*
2037-26-5	*Surrogate: SURR: Toluene-d8*	*102 %*	*81-117*
460-00-4	*Surrogate: SURR: p-Bromofluorobenzene*	*103 %*	*79-122*

Calcium by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	**Calcium**	**88.3**	B	mg/L	0.0556	1	EPA 6010D	02/23/2023 08:53	02/24/2023 17:47	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Chromium by EPA 6010

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-47-3	**Chromium**	**0.0420**		mg/L	0.00556	1	EPA 6010D	02/23/2023 08:53	02/24/2023 17:47	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Hardness, total (as CaCO3)

Log-in Notes: **Sample Notes:**

Sample Information

Client Sample ID: IW-1 **York Sample ID:** 23B0840-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23B0840	220192 27-09 40th Ave.	Water	February 14, 2023 12:41 pm	02/15/2023

Sample Prepared by Method: EPA 200.7

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Hardness, Total	**412**		mg/L	1.11	1	SM 2340B-2011	02/22/2023 08:37	02/22/2023 18:44	CW
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP		

Magnesium by EPA 6010

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	**Magnesium**	**52.1**		mg/L	0.0556	1	EPA 6010D	02/23/2023 08:53	02/24/2023 17:47	CW
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Arsenic by EPA 6020

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-38-2	**Arsenic**	**1.58**		ug/L	1.11	1	EPA 6020B	02/23/2023 11:01	02/24/2023 11:10	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Iron by EPA 6020

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	*** Iron**	**23000**		ug/L	111	10	EPA 6020B	02/23/2023 11:01	02/26/2023 19:16	AJL
							Certifications:	CTDOH-PH-0723		

Manganese by EPA 6020

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3015A

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-96-5	**Manganese**	**1000**		ug/L	22.2	20	EPA 6020B	02/23/2023 11:01	02/27/2023 14:10	AJL
							Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Chloride

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
16887-00-6	**Chloride**	**64.7**		mg/L	0.690	5.00	10	EPA 300.0	02/17/2023 01:36	02/17/2023 01:36	NJO
								Certifications:	CTDOH-PH-0723,NELAC-NY10854,NJDEP,PADEP		

Nitrate as N

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14797-55-8	**Nitrate as N**	**8.25**		mg/L	0.0500	1	EPA 300.0	02/15/2023 20:59	02/15/2023 20:59	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP		

Sulfate as SO4

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: IW-1 **York Sample ID:** 23B0840-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
23B0840	220192 27-09 40th Ave.	Water	February 14, 2023 12:41 pm	02/15/2023

Sample Prepared by Method: EPA 300

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
14808-79-8	**Sulfate**	**48.6**		mg/L	10.0	10	EPA 300.0	02/17/2023 01:36	02/17/2023 01:36	NJO
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP		

Alkalinity, Total

Log-in Notes:

Sample Notes:

Sample Prepared by Method: Analysis Preparation

CAS No.	Parameter	Result	Flag	Units	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
	Alkalinity, total	**180**	CONT-02	mg/L	2.0	1	SM 2320B	02/21/2023 07:26	02/21/2023 13:51	VR
							Certifications:	NELAC-NY10854,CTDOH-PH-0723,NJDEP,PADEP		

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
23B0840-01	MW-108	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
23B0840-02	MW-107	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
23B0840-03	MW-105	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
23B0840-04	MW-106	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
23B0840-05	IW-1	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Sample and Data Qualifiers Relating to This Work Order

QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
ICVE	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration verification (recovery exceeded 30% of expected value).
HT-01R	This flag indicates that the sample was initially analyzed within recommended hold time and that a re-run was performed outside of the hold time.
CONT-02	Alkalinity was performed on a sample from a container with head space.
CCVE	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants.

Definitions and Other Explanations

*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon current NELAC/TNI Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis
Low Bias	Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
High Bias	High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.
Non-Dir.	Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two. For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

For analyses by EPA SW-846-8270D, the Limit of Quantitation (LOQ) reported for benzidine is based upon the lowest standard used for calibration and is not a verified LOQ due to this compound's propensity for oxidative losses during extraction/concentration procedures and non-reproducible chromatographic performance.

York Analytical Laboratories, Inc.
120 Research Drive, Stratford, CT 06615
132-02 89th Ave, Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No. 23B0540

YOUR Information	Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: Liberty Environmental	Company:	Company:	220192	RUSH - Next Day
Address: 600 3rd Ave New York, NY 10016	Address: Same	Address: Same	YOUR Project Name: 27-09 40th Ave	RUSH - Two Day
Phone:	Phone:	Phone:		RUSH - Three Day
Contact: Yasani Spencer	Contact: jcinelli@libertyenviro.com	Contact:		RUSH - Four Day
E-mail: Yspencer@libertyenviro.com	E-mail: cherr@liberty enviro.com	E-mail:	YOUR PO#:	Standard (5-7 Day) X

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Yasani Spencer
Samples Collected by: (print your name above and sign below)
Yasani Spencer

Matrix Codes
S - soil / solid
GW - groundwater
DW - drinking water
WW - wastewater
O - Oil | Other

Samples From
New York X
New Jersey
Connecticut
Pennsylvania
Other

Report / EDD Type (circle selections)
Summary Report | QA Report | NY ASP A Package | NY ASP B Package | CT RCP | CT RCP DQA/DUE | NJDEP Reduced Deliverables | NJDKQP | Standard Excel EDD | EQuIS (Standard) | NYSDEC EQuIS | NJDEP SRP HazSite | Other:

YORK Reg. Comp.
Compared to the following Regulation(s): (please fill in)
NYSDEC

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
MW-108	GW	2.14.23 0928	TAMs*, Alkalinity, Hardness, Anions*, VOCs*	1L2x250mL,3x40mL
MW-107	GW	2.14.23 1208	"	" "
MW-105	GW	2.14.23 1129	"	" "
MW-106	GW	2.14.23 1330	"	" "
IW-1	GW	2.14.23 1241	"	" "

Comments:
* TAMs = arsenic, chromium, iron, calcium, magnesium, manganese
* All VOCs analyzed
* Anions = chloride, sulfate, nitrate ⇒ Samples filtered in field

Preservation: (check all that apply)
HCl X MeOH ___ HNO3 X H2SO4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: None

Special Instruction
Field Filtered X
Lab to Filter ___

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
Yasani Spencer	2.15.23 1736				
Samples Received by / Company	**Date/Time**	**Samples Relinquished by / Company**	**Date/Time**	**Samples Received by / Company**	**Date/Time**
Samples Relinquished by / Company	**Date/Time**	**Samples Received by / Company**	**Date/Time**	**Samples Received in LAB by**	**Date/Time**
				JG	2/15/23 1736

Temp. Received at Lab
2.1 Degrees C

APPENDIX E.4

Data Usability Summary Reports

ENVIRONMENTAL
Data Services, Inc.

DATA USABILITY SUMMARY REPORT
27-09 40th AVENUE, LONG ISLAND CITY, NEW YORK

Client: Liberty Environmental, Reading, Pennsylvania
SDG: 22K0116
Laboratory: York Analytical Laboratories, Stratford, Connecticut
Site: 27-09 40th Avenue, Long Island City, New York
Date: July 28, 2023

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	MW-101	22K0116-01	Water
2	MW-102	22K0116-02	Water
3	MW-103	22K0116-03	Water
4	MW-104	22K0116-04	Water
5*	MW-105	22K0116-05	Water
6*	MW-106	22K0116-06	Water
7*	MW-107	22K0116-07	Water
8	MW-108	22K0116-08	Water
9	MW-109	22K0116-09	Water
10	MW-110	22K0116-10	Water
11	DUP	22K0116-11	Water
12	Trip Blank	22K0116-12	Water

* - Includes Metals (T/D) & Hg (T/D) only

A Data Usability Summary Review was performed on the analytical data for eleven water samples and one aqueous trip blank sample collected on November 1, 2022 by Liberty at the 40th Avenue site in Long Island City, New York. The samples were analyzed under Environmental Protection Agency (USEPA) "Test Methods for the Evaluation of Solid Waste, USEPA SW-846, Third Edition, September 1986, with revisions", the "Methods for Chemical Analysis of Water and Wastes" and the "Standard Methods for Examination of Water and Wastewater."

Specific method references are as follows:

Analysis	*Method References*
VOC	USEPA SW-846 Method 8260C
Metals (T/D)	USEPA SW-846 Method 6010D
Metals (T/D)	USEPA SW-846 Method 6020B
Mercury (T/D)	USEPA SW-846 Method 7470A

The data have been validated according to the protocols and quality control (QC) requirements of the analytical methods and the USEPA Region II Data Review Standard Operating Procedures (SOPs) as follows:

- SOP Number HW-33A, Revision 1, September 2016: Low/Medium Volatile Data Validation;

- SOP Number HW-3a, Revision 1, September 2016: ICP-AES Data Validation;
- SOP Number HW-3b, Revision 1, September 2016: ICP-MS Data Validation;
- SOP Number HW-3c, Revision 1, September 2016: Mercury and Cyanide Data Validation;
- and the reviewer's professional judgment.

The following items/criteria were reviewed for this report:

Organics

- Data Completeness
- Holding times and sample preservation
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample (LCS) recoveries
- Method blank and field blank contamination
- Gas Chromatography (GC)/Mass Spectroscopy (MS) tuning
- Initial and continuing calibration summaries
- Compound Quantitation
- Internal standard area and retention time summary forms
- Tentatively Identified Compounds (TICs)
- Field Duplicate sample precision

Inorganics

- Holding times and sample preservation
- Inductively Coupled Plasma/Mass Spectrometry (ICP/MS) Tuning
- Initial and continuing calibration verifications
- Method blank and field QC blank contamination
- ICP Interference Check Sample
- Laboratory Control Sample (LCS) recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Duplicate Sample Analysis
- ICP Serial Dilution
- Compound Quantitation
- Field Duplicate sample precision

Data Usability Assessment

There were no rejections of data.

The data are acceptable for the intended purposes as qualified for the deficiencies detailed in this report.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedances of QC criteria.

Data Completeness

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

Volatile Organic Compounds (VOCs)

Holding Times

- All samples were analyzed within 14 days for preserved water samples except for the following.

EDS Sample	Date Collected	Date Analyzed	# of Days	Qualifier
4RE	11/01/22	11/15/22	>14	J
5	11/01/22	11/15/22	>14	J/UJ
6	11/01/22	11/15/22	>14	J/UJ
6RE	11/01/22	11/15/22	>14	J
7RE	11/01/22	11/15/22	>14	J
8	11/01/22	11/15/22	>14	J/UJ
8RE	11/01/22	11/15/22	>14	J
9RE	11/01/22	11/15/22	>14	J
10RE	11/01/22	11/15/22	>14	J
11	11/01/22	11/15/22	>14	J/UJ
11RE	11/01/22	11/15/22	>14	J

Note: These samples were analyzed several hours past the 14-day turnaround time.

GC/MS Tuning

- All criteria were met.

Initial Calibration

- The following table presents compounds that exceeded percent relative standard deviation (%RSD) and/or average RRF criteria in the initial calibration (ICAL). A low RRF indicates poor instrument sensitivity for these compounds. Positive results for these compounds in the affected samples are considered estimated and qualified (J). Non-detect results for these compounds in the affected samples are rejected (R) and are unusable for project objectives. A high %RSD may indicate a potential high or low bias. All results for these compounds in affected samples are considered estimated and qualified (J/UJ).

ICAL Date	Compound	%RSD/RRF	Qualifier	Affected Samples
10/19/22	Acetone	65.2%	UJ	2, 12
	Bromochloromethane	21.5%	None	See LCS
	Methylene Chloride	25.7%	UJ	1-4, 7, 9, 10, 12
	Tert-Butyl Alcohol	112.8%	J	3

Continuing Calibration

- The following table presents compounds that exceeded percent difference (%D) and/or RRF values <0.05 (0.01 for poor performers) in the continuing calibration (CCAL). A low RRF indicates poor instrument sensitivity for these compounds. Positive results for these compounds in the affected samples are considered estimated and qualified (J). Non-detect results for these compounds in the affected samples are rejected (R) and are unusable for project objectives. A high %D may indicate a potential high or low bias. All results for these compounds in affected samples are considered estimated and qualified (J/UJ).

CCAL Date	Compound	%D/RRF	Qualifier	Affected Samples
11/14/22 (2014)	1,2,3-Trichlorobenzene	73.7%	None	See LCS
	1,2-Dibromo-3-chloropropane	35.0%	J/UJ	1-4, 7, 9, 10, 12
	1,4-Dioxane	44.7%	UJ	
	Bromomethane	70.4%	UJ	
	Chloromethane	41.2%	J/UJ	
	Hexachlorobutadiene	49.7%	UJ	
	Naphthalene	67.3%	None	See LCS
11/15/22 (1124)	5 Compounds	Low	None	See HT

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC results are summarized below.

Blank ID	Compound	Conc. ug/L	Qualifier	Affected Samples
Trip Blank	None - ND	-	-	-

Surrogate Spike Recoveries

- The following table presents surrogate percent recoveries (%R) outside the QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J).

Sample ID	Surrogate	%R	Qualifier
5	1,2-Dichloroethane-d4	141%	None - See HT
6	1,2-Dichloroethane-d4	139%	
8	1,2-Dichloroethane-d4	140%	
11	1,2-Dichloroethane-d4	138%	

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- MS/MSD samples were not analyzed.

Laboratory Control Samples

- The following table presents LCS percent recoveries (%R) outside the QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J). Results are valid and usable, however possibly biased. For a severely low %R (<10%), non-detect results are rejected (R) and are unusable for project objectives.

LCS ID	Compound	%R	Qualifier	Affected Samples
BK20827-BS1	1,1,2,2-Tetrachloroethane	70.4%	UJ	1-4, 7, 9, 10, 12
	1,1,2-Trichloroethane	80.9%	J/UJ	
	1,2,3-Trichlorobenzene	38.5%	UJ	
	Acetone	260%	J	1, 3, 4, 7, 9, 10
	Bromochloromethane	75.7%	UJ	1-4, 7, 9, 10, 12
	Cyclohexane	44.7%	UJ	
	Dichlorodifluoromethane	146%	None	Sample ND
	Naphthalene	40.4%	UJ	1-4, 7, 9, 10, 12
BK20830-BS1	Chloroethane	139%	None	See HT
	Cyclohexane	36.6%		
	Dichlorodifluoromethane	169%		
	Trichlorofluoromethane	156%		
	Vinyl Chloride	154%		

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Compound Quantitation

- EDS samples 4, 6-10, and 11 were analyzed at a 10X dilution for tetrachloroethylene due to high concentrations. The reporting limits were adjusted accordingly. No action was required.

Tentatively Identified Compounds (TICs)

- TICs were not reported.

Field Duplicate Sample Precision

- Field duplicate samples are summarized below. The precision is acceptable.

Compound	MW-108 ug/L	DUP ug/L	RPD	Qualifier
Acetone	2.40	2.65	10%	None
Chloroform	0.910	0.920	1%	
cis-1,2-Dichloroethylene	0.220	0.230	4%	
Trichloroethylene	3.60	3.59	0%	
Tetrachloroethylene	1460	1430	2%	

Metals (6010/6020) & Mercury

Holding Times

- All samples were prepared and analyzed within 28 days for mercury and 180 days for all other metals.

ICP/MS Tuning

- All criteria were met.

Initial Calibration Verification

- All initial calibration criteria were met.

Continuing Calibration Verification

- The following table presents compounds that exceeded percent difference (%D in the continuing calibration (CCAL). A high %D may indicate a potential high or low bias. All results for these compounds in affected samples are considered estimated and qualified (J).

6020B (Dissolved)				
CCAL Date	Compound	%D	Qualifier	Affected Samples
CCV8	Selenium	88.7%	J	5
	Thallium	142%	None	Sample ND
CCV9	Beryllium	114%	None	See LCS
	Selenium	119%	J	6, 7
	Thallium	141%	None	Sample ND

Method Blank

- The following table lists method blanks with contamination and the samples associated with the blanks that had results qualified as a consequence of the blank contamination. Detected sample concentrations less than ten times (10x) the highest associated blank (after taking sample dilution levels, percent moisture and sample volume into account) are negated and qualified with a (U).

6020B				
Sample ID	Compound	Conc. ug/L	Qualifier	Affected Samples
BK20451-BLK2	Selenium	1.20	U	5

6010D				
Sample ID	Compound	Conc. mg/L	Qualifier	Affected Samples
BK20551-BLK1	Aluminum	0.0597	None	All Associated >10X

Field Blank

- Field QC samples were not collected.

ICP Interference Check Sample

- The ICP interference check sample exhibited acceptable percent recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- MS/MSD samples were not analyzed.

Laboratory Control Samples

- The following table presents LCS percent recoveries (%R) outside the QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J). Results are valid and usable, however possibly biased. For a severely low %R (<10%), non-detect results are rejected (R) and are unusable for project objectives.

6020B				
LCS ID	Compound	%R	Qualifier	Affected Samples
BK20451-BS2	Beryllium	135%	J	6, 7
	Thallium	157%	J	6
BK20455-BS1	Beryllium (Dissolved)	126%	J	6 (Dissolved)
	Thallium (Dissolved)	153%	None	All Associated ND
BK20553-BS1	Silver (Dissolved)	78.1%	UJ	5, 7

6010D				
LCS ID	Compound	%R	Qualifier	Affected Samples
BK20551-BS1	Calcium	27.9%	J	5-7
	Potassium	64.3%		
	Sodium	289%	J	6

ICP Serial Dilution

- ICP serial dilution samples were not analyzed.

Compound Quantitation

- EDS sample 6 was analyzed at a 5X dilution for iron by method 6010D due to high concentrations. The reporting limits were adjusted accordingly. No action was required.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

Please contact the undersigned at (561) 475-2000 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 7/31/23

Nancy Weaver
Senior Chemist

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limits is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

MW-101

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22K0116

Client: Laurel Environmental Geosciences, D.P.C. Project: 27-09 40th Avenue, Long Island City 19-401

Matrix: Water Laboratory ID: 22K0116-01 File ID: QV6246412.D

Sampled: 11/01/22 13:03 Prepared: 11/14/22 06:04 Analyzed: 11/15/22 01:34

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK20827 Sequence: S2K1549 Calibration: SK20002 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.500	U
71-55-6	1,1,1-Trichloroethane	1	0.500	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.500	UJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.500	U
79-00-5	1,1,2-Trichloroethane	1	0.500	UJ
75-34-3	1,1-Dichloroethane	1	0.500	U
75-35-4	1,1-Dichloroethylene	1	0.500	U
87-61-6	1,2,3-Trichlorobenzene	1	0.500	UJ
96-18-4	1,2,3-Trichloropropane	1	0.500	U
120-82-1	1,2,4-Trichlorobenzene	1	0.500	U
95-63-6	1,2,4-Trimethylbenzene	1	0.500	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.500	UJ
106-93-4	1,2-Dibromoethane	1	0.500	U
95-50-1	1,2-Dichlorobenzene	1	0.500	U
107-06-2	1,2-Dichloroethane	1	0.500	U
78-87-5	1,2-Dichloropropane	1	0.500	U
108-67-8	1,3,5-Trimethylbenzene	1	0.500	U
541-73-1	1,3-Dichlorobenzene	1	0.500	U
142-28-9	1,3-Dichloropropane	1	0.500	U
106-46-7	1,4-Dichlorobenzene	1	0.500	U
123-91-1	1,4-Dioxane	1	80.0	UJ
78-93-3	2-Butanone	1	0.500	U
591-78-6	2-Hexanone	1	0.500	U
108-10-1	4-Methyl-2-pentanone	1	0.500	U
67-64-1	Acetone	1	1.19	J
107-02-8	Acrolein	1	0.500	U
107-13-1	Acrylonitrile	1	0.500	U
71-43-2	Benzene	1	0.500	U
74-97-5	Bromochloromethane	1	0.500	UJ
75-27-4	Bromodichloromethane	1	0.500	U
75-25-2	Bromoform	1	0.500	U
74-83-9	Bromomethane	1	0.500	UJ
75-15-0	Carbon disulfide	1	0.500	U
56-23-5	Carbon tetrachloride	1	0.500	U
108-90-7	Chlorobenzene	1	0.500	U
75-00-3	Chloroethane	1	0.500	U
67-66-3	Chloroform	1	0.510	
74-87-3	Chloromethane	1	0.500	UJ
156-59-2	cis-1,2-Dichloroethylene	1	0.500	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.500	U

NW 7/28/23

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

MW-101

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22K0116

Client: Laurel Environmental Geosciences, D.P.C. Project: 27-09 40th Avenue, Long Island City 19-401

Matrix: Water Laboratory ID: 22K0116-01 File ID: QV6246412.D

Sampled: 11/01/22 13:03 Prepared: 11/14/22 06:04 Analyzed: 11/15/22 01:34

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK20827 Sequence: S2K1549 Calibration: SK20002 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
110-82-7	Cyclohexane	1	0.500	~~U~~ UJ
124-48-1	Dibromochloromethane	1	0.500	U
74-95-3	Dibromomethane	1	0.500	U
75-71-8	Dichlorodifluoromethane	1	0.500	U
100-41-4	Ethyl Benzene	1	0.500	U
87-68-3	Hexachlorobutadiene	1	0.500	~~U~~ UJ
98-82-8	Isopropylbenzene	1	0.500	U
79-20-9	Methyl acetate	1	0.500	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.500	U
108-87-2	Methylcyclohexane	1	0.500	U
75-09-2	Methylene chloride	1	2.00	~~U~~ UJ
91-20-3	Naphthalene	1	2.00	~~U~~ UJ
104-51-8	n-Butylbenzene	1	0.500	U
103-65-1	n-Propylbenzene	1	0.500	U
95-47-6	o-Xylene	1	0.500	U
179601-23-1	p- & m- Xylenes	1	1.00	U
105-05-5	p-Diethylbenzene	1	0.500	U
622-96-8	p-Ethyltoluene	1	0.500	U
99-87-6	p-Isopropyltoluene	1	0.500	U
135-98-8	sec-Butylbenzene	1	0.500	U
100-42-5	Styrene	1	0.500	U
75-65-0	tert-Butyl alcohol (TBA)	1	1.00	U
98-06-6	tert-Butylbenzene	1	0.500	U
127-18-4	Tetrachloroethylene	1	48.0	
108-88-3	Toluene	1	0.500	U
156-60-5	trans-1,2-Dichloroethylene	1	0.500	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.500	U
79-01-6	Trichloroethylene	1	0.350	J
75-69-4	Trichlorofluoromethane	1	0.250	J
75-01-4	Vinyl Chloride	1	0.500	U
1330-20-7	Xylenes, Total	1	1.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.3	103	69 - 130	
SURR: Toluene-d8	10.0	10.1	101	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.2	102	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	277043	5.728	298470	5.727	
ISTD: Chlorobenzene-d5	979985	8.763	1099526	8.76	
ISTD: 1,2-Dichlorobenzene-d4	322722	11.743	368078	11.74	

MW 7128123

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

MW-102

2

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22K0116

Client: Laurel Environmental Geosciences, D.P.C. Project: 27-09 40th Avenue, Long Island City 19-401

Matrix: Water Laboratory ID: 22K0116-02 File ID: QV6246413.D

Sampled: 11/01/22 13:22 Prepared: 11/14/22 06:04 Analyzed: 11/15/22 02:01

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK20827 Sequence: S2K1549 Calibration: SK20002 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.500	U
71-55-6	1,1,1-Trichloroethane	1	0.500	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.500	UJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.500	U
79-00-5	1,1,2-Trichloroethane	1	0.500	UJ
75-34-3	1,1-Dichloroethane	1	0.500	U
75-35-4	1,1-Dichloroethylene	1	0.500	U
87-61-6	1,2,3-Trichlorobenzene	1	0.500	UJ
96-18-4	1,2,3-Trichloropropane	1	0.500	U
120-82-1	1,2,4-Trichlorobenzene	1	0.500	U
95-63-6	1,2,4-Trimethylbenzene	1	0.500	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.500	UJ
106-93-4	1,2-Dibromoethane	1	0.500	U
95-50-1	1,2-Dichlorobenzene	1	0.500	U
107-06-2	1,2-Dichloroethane	1	0.500	U
78-87-5	1,2-Dichloropropane	1	0.500	U
108-67-8	1,3,5-Trimethylbenzene	1	0.500	U
541-73-1	1,3-Dichlorobenzene	1	0.500	U
142-28-9	1,3-Dichloropropane	1	0.500	U
106-46-7	1,4-Dichlorobenzene	1	0.500	U
123-91-1	1,4-Dioxane	1	80.0	UJ
78-93-3	2-Butanone	1	0.500	U
591-78-6	2-Hexanone	1	0.500	U
108-10-1	4-Methyl-2-pentanone	1	0.500	U
67-64-1	Acetone	1	2.00	UJ
107-02-8	Acrolein	1	0.500	U
107-13-1	Acrylonitrile	1	0.500	U
71-43-2	Benzene	1	0.500	U
74-97-5	Bromochloromethane	1	0.500	UJ
75-27-4	Bromodichloromethane	1	0.500	U
75-25-2	Bromoform	1	0.500	U
74-83-9	Bromomethane	1	0.500	UJ
75-15-0	Carbon disulfide	1	0.500	U
56-23-5	Carbon tetrachloride	1	0.500	U
108-90-7	Chlorobenzene	1	0.500	U
75-00-3	Chloroethane	1	0.500	U
67-66-3	Chloroform	1	0.730	
74-87-3	Chloromethane	1	0.500	UJ
156-59-2	cis-1,2-Dichloroethylene	1	0.500	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.500	U

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

MW-102

2

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22K0116

Client: Laurel Environmental Geosciences, D.P.C. Project: 27-09 40th Avenue, Long Island City 19-401

Matrix: Water Laboratory ID: 22K0116-02 File ID: QV6246413.D

Sampled: 11/01/22 13:22 Prepared: 11/14/22 06:04 Analyzed: 11/15/22 02:01

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK20827 Sequence: S2K1549 Calibration: SK20002 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
110-82-7	Cyclohexane	1	0.500	~~U~~ UJ
124-48-1	Dibromochloromethane	1	0.500	U
74-95-3	Dibromomethane	1	0.500	U
75-71-8	Dichlorodifluoromethane	1	0.500	U
100-41-4	Ethyl Benzene	1	0.500	U
87-68-3	Hexachlorobutadiene	1	0.500	~~U~~ UJ
98-82-8	Isopropylbenzene	1	0.500	U
79-20-9	Methyl acetate	1	0.500	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.500	U
108-87-2	Methylcyclohexane	1	0.500	U
75-09-2	Methylene chloride	1	2.00	~~U~~ UJ
91-20-3	Naphthalene	1	2.00	~~U~~ UJ
104-51-8	n-Butylbenzene	1	0.500	U
103-65-1	n-Propylbenzene	1	0.500	U
95-47-6	o-Xylene	1	0.500	U
179601-23-1	p- & m- Xylenes	1	1.00	U
105-05-5	p-Diethylbenzene	1	0.500	U
622-96-8	p-Ethyltoluene	1	0.500	U
99-87-6	p-Isopropyltoluene	1	0.500	U
135-98-8	sec-Butylbenzene	1	0.500	U
100-42-5	Styrene	1	0.500	U
75-65-0	tert-Butyl alcohol (TBA)	1	1.00	U
98-06-6	tert-Butylbenzene	1	0.500	U
127-18-4	Tetrachloroethylene	1	55.5	
108-88-3	Toluene	1	0.500	U
156-60-5	trans-1,2-Dichloroethylene	1	0.500	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.500	U
79-01-6	Trichloroethylene	1	0.440	J
75-69-4	Trichlorofluoromethane	1	0.500	U
75-01-4	Vinyl Chloride	1	0.500	U
1330-20-7	Xylenes, Total	1	1.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.2	102	69 - 130	
SURR: Toluene-d8	10.0	10.2	102	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.7	107	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	286443	5.727	298470	5.727	
ISTD: Chlorobenzene-d5	1000470	8.763	1099526	8.76	
ISTD: 1,2-Dichlorobenzene-d4	315506	11.743	368078	11.74	

7/28/23

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

MW-103

3

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22K0116

Client: Laurel Environmental Geosciences, D.P.C. Project: 27-09 40th Avenue, Long Island City 19-401

Matrix: Water Laboratory ID: 22K0116-03 File ID: QV6246414.D

Sampled: 11/01/22 11:57 Prepared: 11/14/22 06:04 Analyzed: 11/15/22 02:28

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK20827 Sequence: S2K1549 Calibration: SK20002 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.500	U
71-55-6	1,1,1-Trichloroethane	1	0.500	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.500	~~U~~ UJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.500	U
79-00-5	1,1,2-Trichloroethane	1	0.390	~~U~~ J
75-34-3	1,1-Dichloroethane	1	0.500	U
75-35-4	1,1-Dichloroethylene	1	0.500	U
87-61-6	1,2,3-Trichlorobenzene	1	0.500	~~U~~ UJ
96-18-4	1,2,3-Trichloropropane	1	1.50	
120-82-1	1,2,4-Trichlorobenzene	1	0.500	U
95-63-6	1,2,4-Trimethylbenzene	1	0.500	U
96-12-8	1,2-Dibromo-3-chloropropane	1	11.0	J
106-93-4	1,2-Dibromoethane	1	0.500	U
95-50-1	1,2-Dichlorobenzene	1	0.500	U
107-06-2	1,2-Dichloroethane	1	0.720	
78-87-5	1,2-Dichloropropane	1	0.500	U
108-67-8	1,3,5-Trimethylbenzene	1	0.500	U
541-73-1	1,3-Dichlorobenzene	1	0.500	U
142-28-9	1,3-Dichloropropane	1	0.500	U
106-46-7	1,4-Dichlorobenzene	1	0.500	U
123-91-1	1,4-Dioxane	1	80.0	~~U~~ UJ
78-93-3	2-Butanone	1	0.500	U
591-78-6	2-Hexanone	1	0.500	U
108-10-1	4-Methyl-2-pentanone	1	0.520	
67-64-1	Acetone	1	2.47	J
107-02-8	Acrolein	1	0.500	U
107-13-1	Acrylonitrile	1	0.500	U
71-43-2	Benzene	1	0.500	U
74-97-5	Bromochloromethane	1	0.500	~~U~~ UJ
75-27-4	Bromodichloromethane	1	0.500	U
75-25-2	Bromoform	1	0.500	U
74-83-9	Bromomethane	1	0.500	~~U~~ UJ
75-15-0	Carbon disulfide	1	0.500	U
56-23-5	Carbon tetrachloride	1	0.500	U
108-90-7	Chlorobenzene	1	0.500	U
75-00-3	Chloroethane	1	0.500	U
67-66-3	Chloroform	1	0.500	U
74-87-3	Chloromethane	1	0.800	J
156-59-2	cis-1,2-Dichloroethylene	1	0.470	J
10061-01-5	cis-1,3-Dichloropropylene	1	0.500	U

NW 7/28/23

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

MW-103

3

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22K0116

Client: Laurel Environmental Geosciences, D.P.C. Project: 27-09 40th Avenue, Long Island City 19-401

Matrix: Water Laboratory ID: 22K0116-03 File ID: QV6246414.D

Sampled: 11/01/22 11:57 Prepared: 11/14/22 06:04 Analyzed: 11/15/22 02:28

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK20827 Sequence: S2K1549 Calibration: SK20002 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
110-82-7	Cyclohexane	1	0.500	~~U~~ UJ
124-48-1	Dibromochloromethane	1	0.500	U
74-95-3	Dibromomethane	1	0.500	U
75-71-8	Dichlorodifluoromethane	1	0.500	U
100-41-4	Ethyl Benzene	1	0.500	U
87-68-3	Hexachlorobutadiene	1	0.500	~~U~~ UJ
98-82-8	Isopropylbenzene	1	0.500	U
79-20-9	Methyl acetate	1	0.500	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.500	U
108-87-2	Methylcyclohexane	1	0.500	U
75-09-2	Methylene chloride	1	2.00	~~U~~ UJ
91-20-3	Naphthalene	1	2.00	~~U~~ UJ
104-51-8	n-Butylbenzene	1	0.500	U
103-65-1	n-Propylbenzene	1	0.500	U
95-47-6	o-Xylene	1	0.500	U
179601-23-1	p- & m- Xylenes	1	1.00	U
105-05-5	p-Diethylbenzene	1	0.500	U
622-96-8	p-Ethyltoluene	1	0.500	U
99-87-6	p-Isopropyltoluene	1	0.500	U
135-98-8	sec-Butylbenzene	1	0.500	U
100-42-5	Styrene	1	0.500	U
75-65-0	tert-Butyl alcohol (TBA)	1	1.75	J
98-06-6	tert-Butylbenzene	1	0.500	U
127-18-4	Tetrachloroethylene	1	32.6	
108-88-3	Toluene	1	0.500	U
156-60-5	trans-1,2-Dichloroethylene	1	0.500	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.500	U
79-01-6	Trichloroethylene	1	0.650	
75-69-4	Trichlorofluoromethane	1	0.500	U
75-01-4	Vinyl Chloride	1	0.500	U
1330-20-7	Xylenes, Total	1	1.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.1	101	69 - 130	
SURR: Toluene-d8	10.0	10.2	102	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.7	107	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	283591	5.73	298470	5.727	
ISTD: Chlorobenzene-d5	1000429	8.763	1099526	8.76	
ISTD: 1,2-Dichlorobenzene-d4	312136	11.743	368078	11.74	

jw 7/28/23

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

MW-104

4

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22K0116

Client: Laurel Environmental Geosciences, D.P.C. Project: 27-09 40th Avenue, Long Island City 19-401

Matrix: Water Laboratory ID: 22K0116-04 File ID: QV6246417.D

Sampled: 11/01/22 12:28 Prepared: 11/14/22 06:04 Analyzed: 11/15/22 03:48

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK20827 Sequence: S2K1549 Calibration: SK20002 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.500	U
71-55-6	1,1,1-Trichloroethane	1	0.500	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.500	U UJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.500	U
79-00-5	1,1,2-Trichloroethane	1	0.500	U UJ
75-34-3	1,1-Dichloroethane	1	0.500	U
75-35-4	1,1-Dichloroethylene	1	0.500	U
87-61-6	1,2,3-Trichlorobenzene	1	0.500	U UJ
96-18-4	1,2,3-Trichloropropane	1	0.500	U
120-82-1	1,2,4-Trichlorobenzene	1	0.500	U
95-63-6	1,2,4-Trimethylbenzene	1	0.500	U
96-12-8	1,2-Dibromo-3-chloropropane	1	7.08	J
106-93-4	1,2-Dibromoethane	1	0.500	U
95-50-1	1,2-Dichlorobenzene	1	0.500	U
107-06-2	1,2-Dichloroethane	1	0.500	U
78-87-5	1,2-Dichloropropane	1	0.500	U
108-67-8	1,3,5-Trimethylbenzene	1	0.500	U
541-73-1	1,3-Dichlorobenzene	1	0.500	U
142-28-9	1,3-Dichloropropane	1	0.500	U
106-46-7	1,4-Dichlorobenzene	1	0.500	U
123-91-1	1,4-Dioxane	1	80.0	U UJ
78-93-3	2-Butanone	1	0.500	U
591-78-6	2-Hexanone	1	0.500	U
108-10-1	4-Methyl-2-pentanone	1	0.500	U
67-64-1	Acetone	1	1.21	J J
107-02-8	Acrolein	1	0.500	U
107-13-1	Acrylonitrile	1	0.500	U
71-43-2	Benzene	1	0.500	U
74-97-5	Bromochloromethane	1	0.500	U UJ
75-27-4	Bromodichloromethane	1	0.500	U
75-25-2	Bromoform	1	0.500	U
74-83-9	Bromomethane	1	0.500	U UJ
75-15-0	Carbon disulfide	1	0.500	U
56-23-5	Carbon tetrachloride	1	0.500	U
108-90-7	Chlorobenzene	1	0.500	U
75-00-3	Chloroethane	1	0.500	U
67-66-3	Chloroform	1	0.670	
74-87-3	Chloromethane	1	0.500	U UJ
156-59-2	cis-1,2-Dichloroethylene	1	0.500	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.500	U

NW 7/28/23

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

MW-104

4

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22K0116

Client: Laurel Environmental Geosciences, D.P.C. Project: 27-09 40th Avenue, Long Island City 19-401

Matrix: Water Laboratory ID: 22K0116-04 File ID: QV6246417.D

Sampled: 11/01/22 12:28 Prepared: 11/14/22 06:04 Analyzed: 11/15/22 03:48

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK20827 Sequence: S2K1549 Calibration: SK20002 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
110-82-7	Cyclohexane	1	0.500	~~U~~ UJ
124-48-1	Dibromochloromethane	1	0.500	U
74-95-3	Dibromomethane	1	0.500	U
75-71-8	Dichlorodifluoromethane	1	0.500	U
100-41-4	Ethyl Benzene	1	0.500	U
87-68-3	Hexachlorobutadiene	1	0.500	~~U~~ UJ
98-82-8	Isopropylbenzene	1	0.500	U
79-20-9	Methyl acetate	1	0.500	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.500	U
108-87-2	Methylcyclohexane	1	0.500	U
75-09-2	Methylene chloride	1	2.00	~~U~~ UJ
91-20-3	Naphthalene	1	2.00	~~U~~ UJ
104-51-8	n-Butylbenzene	1	0.500	U
103-65-1	n-Propylbenzene	1	0.500	U
95-47-6	o-Xylene	1	0.500	U
179601-23-1	p- & m- Xylenes	1	1.00	U
105-05-5	p-Diethylbenzene	1	0.500	U
622-96-8	p-Ethyltoluene	1	0.500	U
99-87-6	p-Isopropyltoluene	1	0.500	U
135-98-8	sec-Butylbenzene	1	0.500	U
100-42-5	Styrene	1	0.500	U
75-65-0	tert-Butyl alcohol (TBA)	1	1.00	U
98-06-6	tert-Butylbenzene	1	0.500	U
108-88-3	Toluene	1	0.500	U
156-60-5	trans-1,2-Dichloroethylene	1	0.500	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.500	U
79-01-6	Trichloroethylene	1	1.11	
75-69-4	Trichlorofluoromethane	1	0.500	U
75-01-4	Vinyl Chloride	1	0.500	U
1330-20-7	Xylenes, Total	1	1.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.2	102	69 - 130	
SURR: Toluene-d8	10.0	10.0	100	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.8	108	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	273703	5.727	298470	5.727	
ISTD: Chlorobenzene-d5	979411	8.763	1099526	8.76	
ISTD: 1,2-Dichlorobenzene-d4	301778	11.743	368078	11.74	

NW 7/28/23

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

MW-104

4RE

Laboratory:	York Analytical Laboratories, Inc. - Stratford		SDG:	22K0116	
Client:	Laurel Environmental Geosciences, D.P.C.		Project:	27-09 40th Avenue, Long Island City 19-401	
Matrix:	Water	Laboratory ID:	22K0116-04RE1	File ID:	QV6246441.D
Sampled:	11/01/22 12:28	Prepared:	11/15/22 06:52	Analyzed:	11/15/22 19:53
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BK20828	Sequence:	S2K1647	Calibration:	SK20002
Instrument:	QVOA6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
127-18-4	Tetrachloroethylene	10	320	J ~~D~~

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	11.2	112	69 - 130	
SURR: Toluene-d8	10.0	10.3	103	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.8	108	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	241002	5.73	286862	5.725	
ISTD: Chlorobenzene-d5	821120	8.76	990025	8.76	
ISTD: 1,2-Dichlorobenzene-d4	262553	11.74	333141	11.737	

* Values outside of QC limits

MW 7/28/23

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

MW-105

5

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22K0116

Client: Laurel Environmental Geosciences, D.P.C. Project: 27-09 40th Avenue, Long Island City 19-401

Matrix: Water Laboratory ID: 22K0116-05 File ID: QV924367.D

Sampled: 11/01/22 12:07 Prepared: 11/15/22 06:24 Analyzed: 11/15/22 18:25

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK20830 Sequence: S2K1649 Calibration: YJ20022 Instrument: QVOA9

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.500	U UJ
71-55-6	1,1,1-Trichloroethane	1	0.500	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.500	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.500	U
79-00-5	1,1,2-Trichloroethane	1	0.500	U
75-34-3	1,1-Dichloroethane	1	0.500	U
75-35-4	1,1-Dichloroethylene	1	0.500	U
87-61-6	1,2,3-Trichlorobenzene	1	0.500	U
96-18-4	1,2,3-Trichloropropane	1	0.500	U
120-82-1	1,2,4-Trichlorobenzene	1	0.500	U
95-63-6	1,2,4-Trimethylbenzene	1	0.500	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.500	U
106-93-4	1,2-Dibromoethane	1	0.500	U
95-50-1	1,2-Dichlorobenzene	1	0.500	U
107-06-2	1,2-Dichloroethane	1	0.500	U
78-87-5	1,2-Dichloropropane	1	0.500	U
108-67-8	1,3,5-Trimethylbenzene	1	0.500	U
541-73-1	1,3-Dichlorobenzene	1	0.500	U
142-28-9	1,3-Dichloropropane	1	0.500	U
106-46-7	1,4-Dichlorobenzene	1	0.500	U
123-91-1	1,4-Dioxane	1	80.0	U
78-93-3	2-Butanone	1	0.500	U
591-78-6	2-Hexanone	1	0.500	U
108-10-1	4-Methyl-2-pentanone	1	0.500	U
67-64-1	Acetone	1	1.89	J J
107-02-8	Acrolein	1	0.500	U UJ
107-13-1	Acrylonitrile	1	0.500	U
71-43-2	Benzene	1	0.500	U
74-97-5	Bromochloromethane	1	0.500	U
75-27-4	Bromodichloromethane	1	0.500	U
75-25-2	Bromoform	1	0.500	U
74-83-9	Bromomethane	1	0.500	U
75-15-0	Carbon disulfide	1	0.500	U
56-23-5	Carbon tetrachloride	1	0.500	U
108-90-7	Chlorobenzene	1	0.500	U
75-00-3	Chloroethane	1	0.500	U
67-66-3	Chloroform	1	0.490	J J
74-87-3	Chloromethane	1	0.500	U UJ
156-59-2	cis-1,2-Dichloroethylene	1	0.600	J
10061-01-5	cis-1,3-Dichloropropylene	1	0.500	U UJ

7/28/23

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

MW-105

5

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22K0116

Client: Laurel Environmental Geosciences, D.P.C. Project: 27-09 40th Avenue, Long Island City 19-401

Matrix: Water Laboratory ID: 22K0116-05 File ID: QV924367.D

Sampled: 11/01/22 12:07 Prepared: 11/15/22 06:24 Analyzed: 11/15/22 18:25

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK20830 Sequence: S2K1649 Calibration: YJ20022 Instrument: QVOA9

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
110-82-7	Cyclohexane	1	0.500	U UJ
124-48-1	Dibromochloromethane	1	0.500	U
74-95-3	Dibromomethane	1	0.500	U
75-71-8	Dichlorodifluoromethane	1	0.500	U
100-41-4	Ethyl Benzene	1	0.500	U
87-68-3	Hexachlorobutadiene	1	0.500	U
98-82-8	Isopropylbenzene	1	0.500	U
79-20-9	Methyl acetate	1	0.500	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.500	U
108-87-2	Methylcyclohexane	1	0.500	U
75-09-2	Methylene chloride	1	2.00	U
91-20-3	Naphthalene	1	2.00	U
104-51-8	n-Butylbenzene	1	0.500	U
103-65-1	n-Propylbenzene	1	0.500	U
95-47-6	o-Xylene	1	0.500	U
179601-23-1	p- & m- Xylenes	1	1.00	U
105-05-5	p-Diethylbenzene	1	0.500	U
622-96-8	p-Ethyltoluene	1	0.500	U
99-87-6	p-Isopropyltoluene	1	0.500	U
135-98-8	sec-Butylbenzene	1	0.500	U
100-42-5	Styrene	1	0.500	U
75-65-0	tert-Butyl alcohol (TBA)	1	1.00	U
98-06-6	tert-Butylbenzene	1	0.500	U 4
127-18-4	Tetrachloroethylene	1	69.3	J
108-88-3	Toluene	1	0.500	U UJ
156-60-5	trans-1,2-Dichloroethylene	1	0.500	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.500	U
79-01-6	Trichloroethylene	1	0.970	J
75-69-4	Trichlorofluoromethane	1	0.410	J
75-01-4	Vinyl Chloride	1	0.500	U UJ
1330-20-7	Xylenes, Total	1	1.50	U UJ

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	14.1	141	69 - 130	
SURR: Toluene-d8	10.0	9.60	96.0	81 - 117	
SURR: p-Bromofluorobenzene	10.0	11.2	112	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	185062	5.633	216471	5.633	
ISTD: Chlorobenzene-d5	593037	8.67	677379	8.67	
ISTD: 1,2-Dichlorobenzene-d4	188460	11.651	239963	11.651	

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FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

MW-106

6

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22K0116

Client: Laurel Environmental Geosciences, D.P.C. Project: 27-09 40th Avenue, Long Island City 19-401

Matrix: Water Laboratory ID: 22K0116-06 File ID: QV924370.D

Sampled: 11/01/22 12:44 Prepared: 11/15/22 06:24 Analyzed: 11/15/22 19:45

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK20830 Sequence: S2K1649 Calibration: YJ20022 Instrument: QVOA9

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.500	U UJ
71-55-6	1,1,1-Trichloroethane	1	0.500	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.500	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.500	U
79-00-5	1,1,2-Trichloroethane	1	0.500	U
75-34-3	1,1-Dichloroethane	1	0.500	U
75-35-4	1,1-Dichloroethylene	1	0.310	J J
87-61-6	1,2,3-Trichlorobenzene	1	0.500	U UJ
96-18-4	1,2,3-Trichloropropane	1	0.500	U
120-82-1	1,2,4-Trichlorobenzene	1	0.500	U
95-63-6	1,2,4-Trimethylbenzene	1	0.500	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.500	U
106-93-4	1,2-Dibromoethane	1	0.500	U
95-50-1	1,2-Dichlorobenzene	1	0.500	U
107-06-2	1,2-Dichloroethane	1	0.500	U
78-87-5	1,2-Dichloropropane	1	0.500	U
108-67-8	1,3,5-Trimethylbenzene	1	0.500	U
541-73-1	1,3-Dichlorobenzene	1	0.500	U
142-28-9	1,3-Dichloropropane	1	0.500	U
106-46-7	1,4-Dichlorobenzene	1	0.500	U
123-91-1	1,4-Dioxane	1	80.0	U
78-93-3	2-Butanone	1	0.500	U
591-78-6	2-Hexanone	1	0.500	U
108-10-1	4-Methyl-2-pentanone	1	0.500	U
67-64-1	Acetone	1	2.37	J
107-02-8	Acrolein	1	0.500	U UJ
107-13-1	Acrylonitrile	1	0.500	U
71-43-2	Benzene	1	0.500	U
74-97-5	Bromochloromethane	1	0.500	U
75-27-4	Bromodichloromethane	1	0.500	U
75-25-2	Bromoform	1	0.500	U
74-83-9	Bromomethane	1	0.500	U
75-15-0	Carbon disulfide	1	0.500	U
56-23-5	Carbon tetrachloride	1	0.500	U
108-90-7	Chlorobenzene	1	0.500	U
75-00-3	Chloroethane	1	0.500	U
67-66-3	Chloroform	1	0.890	J
74-87-3	Chloromethane	1	0.500	U UJ
156-59-2	cis-1,2-Dichloroethylene	1	0.530	J
10061-01-5	cis-1,3-Dichloropropylene	1	0.500	U UJ

lw 7/28/23

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

MW-106

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22K0116

Client: Laurel Environmental Geosciences, D.P.C. Project: 27-09 40th Avenue, Long Island City 19-401

Matrix: Water Laboratory ID: 22K0116-06 File ID: QV924370.D

Sampled: 11/01/22 12:44 Prepared: 11/15/22 06:24 Analyzed: 11/15/22 19:45

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK20830 Sequence: S2K1649 Calibration: YJ20022 Instrument: QVOA9

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
110-82-7	Cyclohexane	1	0.500	U UJ
124-48-1	Dibromochloromethane	1	0.500	U
74-95-3	Dibromomethane	1	0.500	U
75-71-8	Dichlorodifluoromethane	1	0.500	U
100-41-4	Ethyl Benzene	1	0.500	U
87-68-3	Hexachlorobutadiene	1	0.500	U
98-82-8	Isopropylbenzene	1	0.500	U
79-20-9	Methyl acetate	1	0.500	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.500	U
108-87-2	Methylcyclohexane	1	0.500	U
75-09-2	Methylene chloride	1	2.00	U
91-20-3	Naphthalene	1	2.00	U
104-51-8	n-Butylbenzene	1	0.500	U
103-65-1	n-Propylbenzene	1	0.500	U
95-47-6	o-Xylene	1	0.500	U
179601-23-1	p- & m- Xylenes	1	1.00	U
105-05-5	p-Diethylbenzene	1	0.500	U
622-96-8	p-Ethyltoluene	1	0.500	U
99-87-6	p-Isopropyltoluene	1	0.500	U
135-98-8	sec-Butylbenzene	1	0.500	U
100-42-5	Styrene	1	0.500	U
75-65-0	tert-Butyl alcohol (TBA)	1	1.00	U
98-06-6	tert-Butylbenzene	1	0.500	U
108-88-3	Toluene	1	0.500	U
156-60-5	trans-1,2-Dichloroethylene	1	0.500	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.500	U
79-01-6	Trichloroethylene	1	1.82	J
75-69-4	Trichlorofluoromethane	1	1.79	J
75-01-4	Vinyl Chloride	1	0.500	U UJ
1330-20-7	Xylenes, Total	1	1.50	U UJ

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	13.9	139	69 - 130	
SURR: Toluene-d8	10.0	9.46	94.6	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.6	106	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	184996	5.633	216471	5.633	
ISTD: Chlorobenzene-d5	584229	8.67	677379	8.67	
ISTD: 1,2-Dichlorobenzene-d4	190862	11.651	239963	11.651	

7/28/23

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

MW-106

bRE

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	22K0116
Client:	Laurel Environmental Geosciences, D.P.C.			Project:	27-09 40th Avenue, Long Island City 19-401
Matrix:	Water	Laboratory ID:	22K0116-06RE1	File ID:	QV6246439.D
Sampled:	11/01/22 12:44	Prepared:	11/15/22 06:52	Analyzed:	11/15/22 19:00
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BK20828	Sequence:	S2K1647	Calibration:	SK20002
Instrument:	QVOA6				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
127-18-4	Tetrachloroethylene	10	336	J D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.2	102	69 - 130	
SURR: Toluene-d8	10.0	10.2	102	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.4	104	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	258347	5.725	286862	5.725	
ISTD: Chlorobenzene-d5	897471	8.763	990025	8.76	
ISTD: 1,2-Dichlorobenzene-d4	286504	11.74	333141	11.737	

* Values outside of QC limits

7/28/23

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

MW-107

7

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22K0116

Client: Laurel Environmental Geosciences, D.P.C. Project: 27-09 40th Avenue, Long Island City 19-401

Matrix: Water Laboratory ID: 22K0116-07 File ID: QV6246416.D

Sampled: 11/01/22 11:22 Prepared: 11/14/22 06:04 Analyzed: 11/15/22 03:21

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK20827 Sequence: S2K1549 Calibration: SK20002 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.500	U
71-55-6	1,1,1-Trichloroethane	1	0.500	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.500	UJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.500	U
79-00-5	1,1,2-Trichloroethane	1	0.500	UJ
75-34-3	1,1-Dichloroethane	1	0.500	U
75-35-4	1,1-Dichloroethylene	1	0.500	U
87-61-6	1,2,3-Trichlorobenzene	1	0.500	UJ
96-18-4	1,2,3-Trichloropropane	1	0.500	U
120-82-1	1,2,4-Trichlorobenzene	1	0.500	U
95-63-6	1,2,4-Trimethylbenzene	1	0.500	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.500	UJ
106-93-4	1,2-Dibromoethane	1	0.500	U
95-50-1	1,2-Dichlorobenzene	1	0.500	U
107-06-2	1,2-Dichloroethane	1	0.500	U
78-87-5	1,2-Dichloropropane	1	0.500	U
108-67-8	1,3,5-Trimethylbenzene	1	0.500	U
541-73-1	1,3-Dichlorobenzene	1	0.500	U
142-28-9	1,3-Dichloropropane	1	0.500	U
106-46-7	1,4-Dichlorobenzene	1	0.500	U
123-91-1	1,4-Dioxane	1	80.0	UJ
78-93-3	2-Butanone	1	0.500	U
591-78-6	2-Hexanone	1	0.500	U
108-10-1	4-Methyl-2-pentanone	1	0.500	U
67-64-1	Acetone	1	1.71	J
107-02-8	Acrolein	1	0.500	U
107-13-1	Acrylonitrile	1	0.500	U
71-43-2	Benzene	1	0.500	U
74-97-5	Bromochloromethane	1	0.500	UJ
75-27-4	Bromodichloromethane	1	0.500	U
75-25-2	Bromoform	1	0.500	U
74-83-9	Bromomethane	1	0.500	UJ
75-15-0	Carbon disulfide	1	0.500	U
56-23-5	Carbon tetrachloride	1	0.500	U
108-90-7	Chlorobenzene	1	0.500	U
75-00-3	Chloroethane	1	0.500	U
67-66-3	Chloroform	1	0.500	U
74-87-3	Chloromethane	1	0.790	J
156-59-2	cis-1,2-Dichloroethylene	1	0.210	J
10061-01-5	cis-1,3-Dichloropropylene	1	0.500	U

NC 7/28/23

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

MW-107

7

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22K0116

Client: Laurel Environmental Geosciences, D.P.C. Project: 27-09 40th Avenue, Long Island City 19-401

Matrix: Water Laboratory ID: 22K0116-07 File ID: QV6246416.D

Sampled: 11/01/22 11:22 Prepared: 11/14/22 06:04 Analyzed: 11/15/22 03:21

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK20827 Sequence: S2K1549 Calibration: SK20002 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
110-82-7	Cyclohexane	1	0.500	~~U~~ UJ
124-48-1	Dibromochloromethane	1	0.500	U
74-95-3	Dibromomethane	1	0.500	U
75-71-8	Dichlorodifluoromethane	1	0.500	U
100-41-4	Ethyl Benzene	1	0.500	U
87-68-3	Hexachlorobutadiene	1	0.500	~~U~~ UJ
98-82-8	Isopropylbenzene	1	0.500	U
79-20-9	Methyl acetate	1	0.500	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.500	U
108-87-2	Methylcyclohexane	1	0.500	U
75-09-2	Methylene chloride	1	2.00	~~U~~ UJ
91-20-3	Naphthalene	1	2.00	~~U~~ UJ
104-51-8	n-Butylbenzene	1	0.500	U
103-65-1	n-Propylbenzene	1	0.500	U
95-47-6	o-Xylene	1	0.500	U
179601-23-1	p- & m- Xylenes	1	1.00	U
105-05-5	p-Diethylbenzene	1	0.500	U
622-96-8	p-Ethyltoluene	1	0.500	U
99-87-6	p-Isopropyltoluene	1	0.500	U
135-98-8	sec-Butylbenzene	1	0.500	U
100-42-5	Styrene	1	0.500	U
75-65-0	tert-Butyl alcohol (TBA)	1	1.00	U
98-06-6	tert-Butylbenzene	1	0.500	U
108-88-3	Toluene	1	0.500	U
156-60-5	trans-1,2-Dichloroethylene	1	0.500	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.500	U
79-01-6	Trichloroethylene	1	1.59	
75-69-4	Trichlorofluoromethane	1	0.500	U
75-01-4	Vinyl Chloride	1	0.500	U
1330-20-7	Xylenes, Total	1	1.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	9.94	99.4	69 - 130	
SURR: Toluene-d8	10.0	10.1	101	81 - 117	
SURR: p-Bromofluorobenzene	10.0	11.2	112	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	277044	5.727	298470	5.727	
ISTD: Chlorobenzene-d5	987635	8.76	1099526	8.76	
ISTD: 1,2-Dichlorobenzene-d4	294612	11.74	368078	11.74	

MW 7128123

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

MW-107

7RE

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	22K0116
Client:	Laurel Environmental Geosciences, D.P.C.			Project:	27-09 40th Avenue, Long Island City 19-401
Matrix:	Water	Laboratory ID:	22K0116-07RE1	File ID:	QV6246440.D
Sampled:	11/01/22 11:22	Prepared:	11/15/22 06:52	Analyzed:	11/15/22 19:27
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BK20828	Sequence:	S2K1647	Calibration:	SK20002	Instrument:	QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
127-18-4	Tetrachloroethylene	10	217	J

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	11.5	115	69 - 130	
SURR: Toluene-d8	10.0	10.1	101	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.2	102	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	229935	5.727	286862	5.725	
ISTD: Chlorobenzene-d5	801638	8.763	990025	8.76	
ISTD: 1,2-Dichlorobenzene-d4	238713	11.74	333141	11.737	

* Values outside of QC limits

MW 7/28/23

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

MW-108

8

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22K0116

Client: Laurel Environmental Geosciences, D.P.C. Project: 27-09 40th Avenue, Long Island City 19-401

Matrix: Water Laboratory ID: 22K0116-08 File ID: QV924369.D

Sampled: 11/01/22 10:19 Prepared: 11/15/22 06:24 Analyzed: 11/15/22 19:20

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK20830 Sequence: S2K1649 Calibration: YJ20022 Instrument: QVOA9

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.500	U UJ
71-55-6	1,1,1-Trichloroethane	1	0.500	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.500	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.500	U
79-00-5	1,1,2-Trichloroethane	1	0.500	U
75-34-3	1,1-Dichloroethane	1	0.500	U
75-35-4	1,1-Dichloroethylene	1	0.500	U
87-61-6	1,2,3-Trichlorobenzene	1	0.500	U
96-18-4	1,2,3-Trichloropropane	1	0.500	U
120-82-1	1,2,4-Trichlorobenzene	1	0.500	U
95-63-6	1,2,4-Trimethylbenzene	1	0.500	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.500	U
106-93-4	1,2-Dibromoethane	1	0.500	U
95-50-1	1,2-Dichlorobenzene	1	0.500	U
107-06-2	1,2-Dichloroethane	1	0.500	U
78-87-5	1,2-Dichloropropane	1	0.500	U
108-67-8	1,3,5-Trimethylbenzene	1	0.500	U
541-73-1	1,3-Dichlorobenzene	1	0.500	U
142-28-9	1,3-Dichloropropane	1	0.500	U
106-46-7	1,4-Dichlorobenzene	1	0.500	U
123-91-1	1,4-Dioxane	1	80.0	U
78-93-3	2-Butanone	1	0.500	U
591-78-6	2-Hexanone	1	0.500	U
108-10-1	4-Methyl-2-pentanone	1	0.500	U
67-64-1	Acetone	1	2.40	J
107-02-8	Acrolein	1	0.500	U UJ
107-13-1	Acrylonitrile	1	0.500	U
71-43-2	Benzene	1	0.500	U
74-97-5	Bromochloromethane	1	0.500	U
75-27-4	Bromodichloromethane	1	0.500	U
75-25-2	Bromoform	1	0.500	U
74-83-9	Bromomethane	1	0.500	U
75-15-0	Carbon disulfide	1	0.500	U
56-23-5	Carbon tetrachloride	1	0.500	U
108-90-7	Chlorobenzene	1	0.500	U
75-00-3	Chloroethane	1	0.500	U
67-66-3	Chloroform	1	0.910	J
74-87-3	Chloromethane	1	0.500	U UJ
156-59-2	cis-1,2-Dichloroethylene	1	0.220	J
10061-01-5	cis-1,3-Dichloropropylene	1	0.500	U UJ

NW 7/28/23

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

MW-108

8

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22K0116

Client: Laurel Environmental Geosciences, D.P.C. Project: 27-09 40th Avenue, Long Island City 19-401

Matrix: Water Laboratory ID: 22K0116-08 File ID: QV924369.D

Sampled: 11/01/22 10:19 Prepared: 11/15/22 06:24 Analyzed: 11/15/22 19:20

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK20830 Sequence: S2K1649 Calibration: YJ20022 Instrument: QVOA9

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
110-82-7	Cyclohexane	1	0.500	U UJ
124-48-1	Dibromochloromethane	1	0.500	U
74-95-3	Dibromomethane	1	0.500	U
75-71-8	Dichlorodifluoromethane	1	0.500	U
100-41-4	Ethyl Benzene	1	0.500	U
87-68-3	Hexachlorobutadiene	1	0.500	U
98-82-8	Isopropylbenzene	1	0.500	U
79-20-9	Methyl acetate	1	0.500	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.500	U
108-87-2	Methylcyclohexane	1	0.500	U
75-09-2	Methylene chloride	1	2.00	U
91-20-3	Naphthalene	1	2.00	U
104-51-8	n-Butylbenzene	1	0.500	U
103-65-1	n-Propylbenzene	1	0.500	U
95-47-6	o-Xylene	1	0.500	U
179601-23-1	p- & m- Xylenes	1	1.00	U
105-05-5	p-Diethylbenzene	1	0.500	U
622-96-8	p-Ethyltoluene	1	0.500	U
99-87-6	p-Isopropyltoluene	1	0.500	U
135-98-8	sec-Butylbenzene	1	0.500	U
100-42-5	Styrene	1	0.500	U
75-65-0	tert-Butyl alcohol (TBA)	1	1.00	U
98-06-6	tert-Butylbenzene	1	0.500	U
108-88-3	Toluene	1	0.500	U
156-60-5	trans-1,2-Dichloroethylene	1	0.500	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.500	U
79-01-6	Trichloroethylene	1	3.60	J
75-69-4	Trichlorofluoromethane	1	0.500	U UJ
75-01-4	Vinyl Chloride	1	0.500	U
1330-20-7	Xylenes, Total	1	1.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	14.0	140	69 - 130	✓
SURR: Toluene-d8	10.0	9.75	97.5	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.6	106	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	177512	5.633	216471	5.633	
ISTD: Chlorobenzene-d5	555589	8.67	677379	8.67	
ISTD: 1,2-Dichlorobenzene-d4	190957	11.651	239963	11.651	

MW 7/28/23

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

MW-108

8RE

Laboratory:	York Analytical Laboratories, Inc. - Stratford		SDG:	22K0116	
Client:	Laurel Environmental Geosciences, D.P.C.		Project:	27-09 40th Avenue, Long Island City 19-401	
Matrix:	Water	Laboratory ID:	22K0116-08RE1	File ID:	QV6246438.D
Sampled:	11/01/22 10:19	Prepared:	11/15/22 06:52	Analyzed:	11/15/22 18:25
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BK20828	Sequence:	S2K1647	Calibration:	SK20002	Instrument:	QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
127-18-4	Tetrachloroethylene	10	1460	J D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.3	103	69 - 130	
SURR: Toluene-d8	10.0	9.99	99.9	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.7	107	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	262792	5.728	286862	5.725	
ISTD: Chlorobenzene-d5	941624	8.763	990025	8.76	
ISTD: 1,2-Dichlorobenzene-d4	280425	11.743	333141	11.737	

* Values outside of QC limits

7/28/23

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

MW-109

9

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22K0116

Client: Laurel Environmental Geosciences, D.P.C. Project: 27-09 40th Avenue, Long Island City 19-401

Matrix: Water Laboratory ID: 22K0116-09 File ID: QV6246420.D

Sampled: 11/01/22 10:33 Prepared: 11/14/22 06:04 Analyzed: 11/15/22 05:08

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK20827 Sequence: S2K1549 Calibration: SK20002 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.500	U
71-55-6	1,1,1-Trichloroethane	1	0.500	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.500	U UJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.500	U
79-00-5	1,1,2-Trichloroethane	1	0.500	U UJ
75-34-3	1,1-Dichloroethane	1	0.500	U
75-35-4	1,1-Dichloroethylene	1	0.500	U
87-61-6	1,2,3-Trichlorobenzene	1	0.500	U UJ
96-18-4	1,2,3-Trichloropropane	1	0.500	U
120-82-1	1,2,4-Trichlorobenzene	1	0.500	U
95-63-6	1,2,4-Trimethylbenzene	1	0.500	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.500	U UJ
106-93-4	1,2-Dibromoethane	1	0.500	U
95-50-1	1,2-Dichlorobenzene	1	0.500	U
107-06-2	1,2-Dichloroethane	1	0.500	U
78-87-5	1,2-Dichloropropane	1	0.500	U
108-67-8	1,3,5-Trimethylbenzene	1	0.500	U
541-73-1	1,3-Dichlorobenzene	1	0.500	U
142-28-9	1,3-Dichloropropane	1	0.500	U
106-46-7	1,4-Dichlorobenzene	1	0.500	U
123-91-1	1,4-Dioxane	1	80.0	U UJ
78-93-3	2-Butanone	1	0.500	U
591-78-6	2-Hexanone	1	0.500	U
108-10-1	4-Methyl-2-pentanone	1	0.500	U
67-64-1	Acetone	1	2.93	J
107-02-8	Acrolein	1	0.500	U
107-13-1	Acrylonitrile	1	0.500	U
71-43-2	Benzene	1	0.500	U
74-97-5	Bromochloromethane	1	0.500	U UJ
75-27-4	Bromodichloromethane	1	0.500	U
75-25-2	Bromoform	1	0.500	U
74-83-9	Bromomethane	1	0.500	U UJ
75-15-0	Carbon disulfide	1	0.500	U
56-23-5	Carbon tetrachloride	1	0.500	U
108-90-7	Chlorobenzene	1	0.500	U
75-00-3	Chloroethane	1	0.500	U
67-66-3	Chloroform	1	0.800	
74-87-3	Chloromethane	1	0.500	U UJ
156-59-2	cis-1,2-Dichloroethylene	1	0.500	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.500	U

NW 7/28/23

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

MW-109

9

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22K0116

Client: Laurel Environmental Geosciences, D.P.C. Project: 27-09 40th Avenue, Long Island City 19-401

Matrix: Water Laboratory ID: 22K0116-09 File ID: QV6246420.D

Sampled: 11/01/22 10:33 Prepared: 11/14/22 06:04 Analyzed: 11/15/22 05:08

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK20827 Sequence: S2K1549 Calibration: SK20002 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
110-82-7	Cyclohexane	1	0.500	UJ
124-48-1	Dibromochloromethane	1	0.500	U
74-95-3	Dibromomethane	1	0.500	U
75-71-8	Dichlorodifluoromethane	1	0.500	U
100-41-4	Ethyl Benzene	1	0.500	U
87-68-3	Hexachlorobutadiene	1	0.500	UJ
98-82-8	Isopropylbenzene	1	0.500	U
79-20-9	Methyl acetate	1	1.08	
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.500	U
108-87-2	Methylcyclohexane	1	0.500	U
75-09-2	Methylene chloride	1	2.00	UJ
91-20-3	Naphthalene	1	2.00	UJ
104-51-8	n-Butylbenzene	1	0.500	U
103-65-1	n-Propylbenzene	1	0.500	U
95-47-6	o-Xylene	1	0.500	U
179601-23-1	p- & m- Xylenes	1	1.00	U
105-05-5	p-Diethylbenzene	1	0.500	U
622-96-8	p-Ethyltoluene	1	0.500	U
99-87-6	p-Isopropyltoluene	1	0.500	U
135-98-8	sec-Butylbenzene	1	0.500	U
100-42-5	Styrene	1	0.500	U
75-65-0	tert-Butyl alcohol (TBA)	1	1.00	U
98-06-6	tert-Butylbenzene	1	0.500	U
108-88-3	Toluene	1	0.500	U
156-60-5	trans-1,2-Dichloroethylene	1	0.500	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.500	U
79-01-6	Trichloroethylene	1	2.99	
75-69-4	Trichlorofluoromethane	1	0.500	U
75-01-4	Vinyl Chloride	1	0.500	U
1330-20-7	Xylenes, Total	1	1.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.3	103	69 - 130	
SURR: Toluene-d8	10.0	10.0	100	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.9	109	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	270510	5.727	298470	5.727	
ISTD: Chlorobenzene-d5	967115	8.763	1099526	8.76	
ISTD: 1,2-Dichlorobenzene-d4	298385	11.74	368078	11.74	

MW 7/28/23

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

MW-109

9RE

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22K0116

Client: Laurel Environmental Geosciences, D.P.C. Project: 27-09 40th Avenue, Long Island City 19-401

Matrix: Water Laboratory ID: 22K0116-09RE1 File ID: QV6246437.D

Sampled: 11/01/22 10:33 Prepared: 11/15/22 06:52 Analyzed: 11/15/22 17:58

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK20828 Sequence: S2K1647 Calibration: SK20002 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
127-18-4	Tetrachloroethylene	10	511	J D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	11.1	111	69 - 130	
SURR: Toluene-d8	10.0	10.0	100	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.7	107	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	248710	5.725	286862	5.725	
ISTD: Chlorobenzene-d5	883129	8.76	990025	8.76	
ISTD: 1,2-Dichlorobenzene-d4	294344	11.74	333141	11.737	

* Values outside of QC limits

11/28/23

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

MW-110

10

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22K0116

Client: Laurel Environmental Geosciences, D.P.C. Project: 27-09 40th Avenue, Long Island City 19-401

Matrix: Water Laboratory ID: 22K0116-10 File ID: QV6246419.D

Sampled: 11/01/22 10:53 Prepared: 11/14/22 06:04 Analyzed: 11/15/22 04:41

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK20827 Sequence: S2K1549 Calibration: SK20002 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.500	U
71-55-6	1,1,1-Trichloroethane	1	0.500	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.500	X UJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.500	U
79-00-5	1,1,2-Trichloroethane	1	0.500	X UJ
75-34-3	1,1-Dichloroethane	1	0.500	U
75-35-4	1,1-Dichloroethylene	1	0.500	U
87-61-6	1,2,3-Trichlorobenzene	1	0.500	X UJ
96-18-4	1,2,3-Trichloropropane	1	0.500	U
120-82-1	1,2,4-Trichlorobenzene	1	0.500	U
95-63-6	1,2,4-Trimethylbenzene	1	0.500	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.500	X UJ
106-93-4	1,2-Dibromoethane	1	0.500	U
95-50-1	1,2-Dichlorobenzene	1	0.500	U
107-06-2	1,2-Dichloroethane	1	0.500	U
78-87-5	1,2-Dichloropropane	1	0.500	U
108-67-8	1,3,5-Trimethylbenzene	1	0.500	U
541-73-1	1,3-Dichlorobenzene	1	0.500	U
142-28-9	1,3-Dichloropropane	1	0.500	U
106-46-7	1,4-Dichlorobenzene	1	0.500	U
123-91-1	1,4-Dioxane	1	80.0	X UJ
78-93-3	2-Butanone	1	0.500	U
591-78-6	2-Hexanone	1	0.500	U
108-10-1	4-Methyl-2-pentanone	1	0.500	U
67-64-1	Acetone	1	1.29	X J
107-02-8	Acrolein	1	0.500	U
107-13-1	Acrylonitrile	1	0.500	U
71-43-2	Benzene	1	0.500	U
74-97-5	Bromochloromethane	1	0.500	X UJ
75-27-4	Bromodichloromethane	1	0.500	U
75-25-2	Bromoform	1	0.500	U
74-83-9	Bromomethane	1	0.500	X UJ
75-15-0	Carbon disulfide	1	0.500	U
56-23-5	Carbon tetrachloride	1	0.500	U
108-90-7	Chlorobenzene	1	0.500	U
75-00-3	Chloroethane	1	0.500	U
67-66-3	Chloroform	1	1.00	
74-87-3	Chloromethane	1	0.810	J
156-59-2	cis-1,2-Dichloroethylene	1	2.32	
10061-01-5	cis-1,3-Dichloropropylene	1	0.500	U

NW 7/28/23

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

MW-110

10

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22K0116

Client: Laurel Environmental Geosciences, D.P.C. Project: 27-09 40th Avenue, Long Island City 19-401

Matrix: Water Laboratory ID: 22K0116-10 File ID: QV6246419.D

Sampled: 11/01/22 10:53 Prepared: 11/14/22 06:04 Analyzed: 11/15/22 04:41

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK20827 Sequence: S2K1549 Calibration: SK20002 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
110-82-7	Cyclohexane	1	0.500	~~U~~ UJ
124-48-1	Dibromochloromethane	1	0.500	U
74-95-3	Dibromomethane	1	0.500	U
75-71-8	Dichlorodifluoromethane	1	0.500	U
100-41-4	Ethyl Benzene	1	0.500	U
87-68-3	Hexachlorobutadiene	1	0.500	~~U~~ UJ
98-82-8	Isopropylbenzene	1	0.500	U
79-20-9	Methyl acetate	1	0.500	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.500	U
108-87-2	Methylcyclohexane	1	0.500	U
75-09-2	Methylene chloride	1	2.00	~~U~~ UJ
91-20-3	Naphthalene	1	2.00	~~U~~ UJ
104-51-8	n-Butylbenzene	1	0.500	U
103-65-1	n-Propylbenzene	1	0.500	U
95-47-6	o-Xylene	1	0.500	U
179601-23-1	p- & m- Xylenes	1	1.00	U
105-05-5	p-Diethylbenzene	1	0.500	U
622-96-8	p-Ethyltoluene	1	0.500	U
99-87-6	p-Isopropyltoluene	1	0.500	U
135-98-8	sec-Butylbenzene	1	0.500	U
100-42-5	Styrene	1	0.500	U
75-65-0	tert-Butyl alcohol (TBA)	1	1.00	U
98-06-6	tert-Butylbenzene	1	0.500	U
108-88-3	Toluene	1	0.500	U
156-60-5	trans-1,2-Dichloroethylene	1	0.400	J
10061-02-6	trans-1,3-Dichloropropylene	1	0.500	U
79-01-6	Trichloroethylene	1	2.82	
75-69-4	Trichlorofluoromethane	1	1.04	
75-01-4	Vinyl Chloride	1	0.500	U
1330-20-7	Xylenes, Total	1	1.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.3	103	69 - 130	
SURR: Toluene-d8	10.0	10.0	100	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.7	107	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	267394	5.728	298470	5.727	
ISTD: Chlorobenzene-d5	958336	8.76	1099526	8.76	
ISTD: 1,2-Dichlorobenzene-d4	298262	11.74	368078	11.74	

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FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

MW-110

10RE

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22K0116

Client: Laurel Environmental Geosciences, D.P.C. Project: 27-09 40th Avenue, Long Island City 19-401

Matrix: Water Laboratory ID: 22K0116-10RE1 File ID: QV6246442.D

Sampled: 11/01/22 10:53 Prepared: 11/15/22 06:52 Analyzed: 11/15/22 20:20

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK20828 Sequence: S2K1647 Calibration: SK20002 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
127-18-4	Tetrachloroethylene	10	300	J D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	11.1	111	69 - 130	
SURR: Toluene-d8	10.0	10.2	102	81 - 117	
SURR: p-Bromofluorobenzene	10.0	8.61	86.1	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	237919	5.73	286862	5.725	
ISTD: Chlorobenzene-d5	794005	8.763	990025	8.76	
ISTD: 1,2-Dichlorobenzene-d4	276748	11.743	333141	11.737	

* Values outside of QC limits

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FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

DUP

11

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22K0116

Client: Laurel Environmental Geosciences, D.P.C. Project: 27-09 40th Avenue, Long Island City 19-401

Matrix: Water Laboratory ID: 22K0116-11 File ID: QV924368.D

Sampled: 11/01/22 07:00 Prepared: 11/15/22 06:24 Analyzed: 11/15/22 18:50

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK20830 Sequence: S2K1649 Calibration: YJ20022 Instrument: QVOA9

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.500	U UJ
71-55-6	1,1,1-Trichloroethane	1	0.500	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.500	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.500	U
79-00-5	1,1,2-Trichloroethane	1	0.500	U
75-34-3	1,1-Dichloroethane	1	0.500	U
75-35-4	1,1-Dichloroethylene	1	0.500	U
87-61-6	1,2,3-Trichlorobenzene	1	0.500	U
96-18-4	1,2,3-Trichloropropane	1	0.500	U
120-82-1	1,2,4-Trichlorobenzene	1	0.500	U
95-63-6	1,2,4-Trimethylbenzene	1	0.500	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.500	U
106-93-4	1,2-Dibromoethane	1	0.500	U
95-50-1	1,2-Dichlorobenzene	1	0.500	U
107-06-2	1,2-Dichloroethane	1	0.500	U
78-87-5	1,2-Dichloropropane	1	0.500	U
108-67-8	1,3,5-Trimethylbenzene	1	0.500	U
541-73-1	1,3-Dichlorobenzene	1	0.500	U
142-28-9	1,3-Dichloropropane	1	0.500	U
106-46-7	1,4-Dichlorobenzene	1	0.500	U
123-91-1	1,4-Dioxane	1	80.0	U
78-93-3	2-Butanone	1	0.500	U
591-78-6	2-Hexanone	1	0.500	U
108-10-1	4-Methyl-2-pentanone	1	0.500	U
67-64-1	Acetone	1	2.65	J
107-02-8	Acrolein	1	0.500	U UJ
107-13-1	Acrylonitrile	1	0.500	U
71-43-2	Benzene	1	0.500	U
74-97-5	Bromochloromethane	1	0.500	U
75-27-4	Bromodichloromethane	1	0.500	U
75-25-2	Bromoform	1	0.500	U
74-83-9	Bromomethane	1	0.500	U
75-15-0	Carbon disulfide	1	0.500	U
56-23-5	Carbon tetrachloride	1	0.500	U
108-90-7	Chlorobenzene	1	0.500	U
75-00-3	Chloroethane	1	0.500	U
67-66-3	Chloroform	1	0.920	J
74-87-3	Chloromethane	1	0.500	U UJ
156-59-2	cis-1,2-Dichloroethylene	1	0.230	J J
10061-01-5	cis-1,3-Dichloropropylene	1	0.500	U UJ

New 7/28/23

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

DUP

11

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22K0116

Client: Laurel Environmental Geosciences, D.P.C. Project: 27-09 40th Avenue, Long Island City 19-401

Matrix: Water Laboratory ID: 22K0116-11 File ID: QV924368.D

Sampled: 11/01/22 07:00 Prepared: 11/15/22 06:24 Analyzed: 11/15/22 18:50

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK20830 Sequence: S2K1649 Calibration: YJ20022 Instrument: QVOA9

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
110-82-7	Cyclohexane	1	0.500	U UJ
124-48-1	Dibromochloromethane	1	0.500	U
74-95-3	Dibromomethane	1	0.500	U
75-71-8	Dichlorodifluoromethane	1	0.500	U
100-41-4	Ethyl Benzene	1	0.500	U
87-68-3	Hexachlorobutadiene	1	0.500	U
98-82-8	Isopropylbenzene	1	0.500	U
79-20-9	Methyl acetate	1	0.500	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.500	U
108-87-2	Methylcyclohexane	1	0.500	U
75-09-2	Methylene chloride	1	2.00	U
91-20-3	Naphthalene	1	2.00	U
104-51-8	n-Butylbenzene	1	0.500	U
103-65-1	n-Propylbenzene	1	0.500	U
95-47-6	o-Xylene	1	0.500	U
179601-23-1	p- & m- Xylenes	1	1.00	U
105-05-5	p-Diethylbenzene	1	0.500	U
622-96-8	p-Ethyltoluene	1	0.500	U
99-87-6	p-Isopropyltoluene	1	0.500	U
135-98-8	sec-Butylbenzene	1	0.500	U
100-42-5	Styrene	1	0.500	U
75-65-0	tert-Butyl alcohol (TBA)	1	1.00	U
98-06-6	tert-Butylbenzene	1	0.500	U
108-88-3	Toluene	1	0.500	U
156-60-5	trans-1,2-Dichloroethylene	1	0.500	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.500	U
79-01-6	Trichloroethylene	1	3.59	J
75-69-4	Trichlorofluoromethane	1	0.500	U UJ
75-01-4	Vinyl Chloride	1	0.500	U
1330-20-7	Xylenes, Total	1	1.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	13.8	138	69 - 130	*
SURR: Toluene-d8	10.0	9.52	95.2	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.7	107	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	184243	5.633	216471	5.633	
ISTD: Chlorobenzene-d5	585222	8.67	677379	8.67	
ISTD: 1,2-Dichlorobenzene-d4	196031	11.651	239963	11.651	

NW 7/28/23

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

DUP

11RE

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22K0116

Client: Laurel Environmental Geosciences, D.P.C. Project: 27-09 40th Avenue, Long Island City 19-401

Matrix: Water Laboratory ID: 22K0116-11RE1 File ID: QV6246436.D

Sampled: 11/01/22 07:00 Prepared: 11/15/22 06:52 Analyzed: 11/15/22 17:19

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK20828 Sequence: S2K1647 Calibration: SK20002 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
127-18-4	Tetrachloroethylene	10	1430	J D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.1	101	69 - 130	
SURR: Toluene-d8	10.0	10.3	103	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.5	105	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	256626	5.728	286862	5.725	
ISTD: Chlorobenzene-d5	887707	8.76	990025	8.76	
ISTD: 1,2-Dichlorobenzene-d4	278560	11.74	333141	11.737	

* Values outside of QC limits

11/28/23

FORM I

ORGANIC ANALYSIS DATA SHEET
EPA 8260C

Trip Blank

12

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22K0116

Client: Laurel Environmental Geosciences, D.P.C. Project: 27-09 40th Avenue, Long Island City 19-401

Matrix: Water Laboratory ID: 22K0116-12 File ID: QV6246408.D

Sampled: 11/01/22 08:00 Prepared: 11/14/22 06:04 Analyzed: 11/14/22 23:48

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK20827 Sequence: S2K1549 Calibration: SK20002 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.500	U
71-55-6	1,1,1-Trichloroethane	1	0.500	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.500	UJ
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.500	U
79-00-5	1,1,2-Trichloroethane	1	0.500	UJ
75-34-3	1,1-Dichloroethane	1	0.500	U
75-35-4	1,1-Dichloroethylene	1	0.500	U
87-61-6	1,2,3-Trichlorobenzene	1	0.500	UJ
96-18-4	1,2,3-Trichloropropane	1	0.500	U
120-82-1	1,2,4-Trichlorobenzene	1	0.500	U
95-63-6	1,2,4-Trimethylbenzene	1	0.500	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.500	UJ
106-93-4	1,2-Dibromoethane	1	0.500	U
95-50-1	1,2-Dichlorobenzene	1	0.500	U
107-06-2	1,2-Dichloroethane	1	0.500	U
78-87-5	1,2-Dichloropropane	1	0.500	U
108-67-8	1,3,5-Trimethylbenzene	1	0.500	U
541-73-1	1,3-Dichlorobenzene	1	0.500	U
142-28-9	1,3-Dichloropropane	1	0.500	U
106-46-7	1,4-Dichlorobenzene	1	0.500	U
123-91-1	1,4-Dioxane	1	80.0	UJ
78-93-3	2-Butanone	1	0.500	U
591-78-6	2-Hexanone	1	0.500	U
108-10-1	4-Methyl-2-pentanone	1	0.500	U
67-64-1	Acetone	1	2.00	UJ
107-02-8	Acrolein	1	0.500	U
107-13-1	Acrylonitrile	1	0.500	U
71-43-2	Benzene	1	0.500	U
74-97-5	Bromochloromethane	1	0.500	UJ
75-27-4	Bromodichloromethane	1	0.500	U
75-25-2	Bromoform	1	0.500	U
74-83-9	Bromomethane	1	0.500	UJ
75-15-0	Carbon disulfide	1	0.500	U
56-23-5	Carbon tetrachloride	1	0.500	U
108-90-7	Chlorobenzene	1	0.500	U
75-00-3	Chloroethane	1	0.500	U
67-66-3	Chloroform	1	0.500	U
74-87-3	Chloromethane	1	0.500	UJ
156-59-2	cis-1,2-Dichloroethylene	1	0.500	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.500	U

NW 7/28/23

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

Trip Blank

12

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22K0116

Client: Laurel Environmental Geosciences, D.P.C. Project: 27-09 40th Avenue, Long Island City 19-401

Matrix: Water Laboratory ID: 22K0116-12 File ID: QV6246408.D

Sampled: 11/01/22 08:00 Prepared: 11/14/22 06:04 Analyzed: 11/14/22 23:48

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BK20827 Sequence: S2K1549 Calibration: SK20002 Instrument: QVOA6

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
110-82-7	Cyclohexane	1	0.500	~~U~~ UJ
124-48-1	Dibromochloromethane	1	0.500	U
74-95-3	Dibromomethane	1	0.500	U
75-71-8	Dichlorodifluoromethane	1	0.500	U
100-41-4	Ethyl Benzene	1	0.500	U
87-68-3	Hexachlorobutadiene	1	0.500	~~U~~ UJ
98-82-8	Isopropylbenzene	1	0.500	U
79-20-9	Methyl acetate	1	0.500	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.500	U
108-87-2	Methylcyclohexane	1	0.500	U
75-09-2	Methylene chloride	1	2.00	~~U~~ UJ
91-20-3	Naphthalene	1	2.00	~~U~~ UJ
104-51-8	n-Butylbenzene	1	0.500	U
103-65-1	n-Propylbenzene	1	0.500	U
95-47-6	o-Xylene	1	0.500	U
179601-23-1	p- & m- Xylenes	1	1.00	U
105-05-5	p-Diethylbenzene	1	0.500	U
622-96-8	p-Ethyltoluene	1	0.500	U
99-87-6	p-Isopropyltoluene	1	0.500	U
135-98-8	sec-Butylbenzene	1	0.500	U
100-42-5	Styrene	1	0.500	U
75-65-0	tert-Butyl alcohol (TBA)	1	1.00	U
98-06-6	tert-Butylbenzene	1	0.500	U
127-18-4	Tetrachloroethylene	1	0.500	U
108-88-3	Toluene	1	0.500	U
156-60-5	trans-1,2-Dichloroethylene	1	0.500	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.500	U
79-01-6	Trichloroethylene	1	0.500	U
75-69-4	Trichlorofluoromethane	1	0.500	U
75-01-4	Vinyl Chloride	1	0.500	U
1330-20-7	Xylenes, Total	1	1.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.3	103	69 - 130	
SURR: Toluene-d8	10.0	10.1	101	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.5	105	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	286283	5.727	298470	5.727	
ISTD: Chlorobenzene-d5	1013180	8.763	1099526	8.76	
ISTD: 1,2-Dichlorobenzene-d4	327628	11.743	368078	11.74	

NW 7/28/23

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

MW-105

5

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22K0116

Client: Laurel Environmental Geosciences, D.P.C. Project: 27-09 40th Avenue, Long Island City 19-401

Matrix: Water Laboratory ID: 22K0116-05 File ID: QBICP2-110922BRE_1-097

Sampled: 11/01/22 12:07 Prepared: 11/09/22 10:36 Analyzed: 11/09/22 16:30

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BK20551 Sequence: S2K1016 Calibration: 11/09/22 1 Instrument: WinLabICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7429-90-5	Aluminum	2.92	1	~~B~~	EPA 6010D
7429-90-5	Aluminum (dissolved)	0.0556	1	U	EPA 6010D
7440-39-3	Barium	0.117	1		EPA 6010D
7440-39-3	Barium (dissolved)	0.0859	1		EPA 6010D
7440-70-2	Calcium	167	1	J	EPA 6010D
7440-70-2	Calcium (dissolved)	131	1		EPA 6010D
7440-47-3	Chromium	0.0162	1		EPA 6010D
7440-47-3	Chromium (dissolved)	0.00556	1	U	EPA 6010D
7440-48-4	Cobalt	0.00444	1	U	EPA 6010D
7440-48-4	Cobalt (dissolved)	0.00444	1	U	EPA 6010D
7440-50-8	Copper	0.0269	1		EPA 6010D
7440-50-8	Copper (dissolved)	0.0222	1	U	EPA 6010D
7439-89-6	Iron	3.56	1		EPA 6010D
7439-89-6	Iron (dissolved)	0.278	1	U	EPA 6010D
7439-92-1	Lead	0.0217	1		EPA 6010D
7439-92-1	Lead (dissolved)	0.00556	1	U	EPA 6010D
7439-95-4	Magnesium	73.7	1		EPA 6010D
7439-95-4	Magnesium (dissolved)	75.4	1		EPA 6010D
7439-96-5	Manganese	0.535	1		EPA 6010D
7439-96-5	Manganese (dissolved)	0.126	1		EPA 6010D
7440-02-0	Nickel	0.0126	1		EPA 6010D
7440-02-0	Nickel (dissolved)	0.0111	1	U	EPA 6010D
7440-09-7	Potassium	5.94	1	J	EPA 6010D
7440-09-7	Potassium (dissolved)	6.10	1		EPA 6010D
7440-22-4	Silver	0.00556	1	U	EPA 6010D

7/28/23

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

MW-105

5

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22K0116

Client: Laurel Environmental Geosciences, D.P.C. Project: 27-09 40th Avenue, Long Island City 19-401

Matrix: Water Laboratory ID: 22K0116-05 File ID: QBI110922ARE_1-140

Sampled: 11/01/22 12:07 Prepared: 11/09/22 10:48 Analyzed: 11/09/22 16:59

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BK20553 Sequence: S2K1009 Calibration: 11/09/22 1 Instrument: WinLabICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-22-4	Silver (dissolved)	0.00556	1	UJU	EPA 6010D
7440-23-5	Sodium	63.0	1		EPA 6010D
7440-23-5	Sodium (dissolved)	89.8	1		EPA 6010D
7440-62-2	Vanadium	0.0111	1	U	EPA 6010D
7440-62-2	Vanadium (dissolved)	0.0111	1	U	EPA 6010D
7440-66-6	Zinc	0.0823	1		EPA 6010D
7440-66-6	Zinc (dissolved)	0.0307	1		EPA 6010D

NW 7/28/23

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

MW-106

6

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22K0116

Client: Laurel Environmental Geosciences, D.P.C. Project: 27-09 40th Avenue, Long Island City 19-401

Matrix: Water Laboratory ID: 22K0116-06 File ID: QBICP2-110922BRE_1-100

Sampled: 11/01/22 12:44 Prepared: 11/09/22 10:36 Analyzed: 11/09/22 16:41

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BK20551 Sequence: S2K1016 Calibration: 11/09/22 1 Instrument: WinLabICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7429-90-5	Aluminum	106	1	~~B~~	EPA 6010D
7429-90-5	Aluminum (dissolved)	0.0556	1	U	EPA 6010D
7440-39-3	Barium	0.966	1		EPA 6010D
7440-39-3	Barium (dissolved)	0.0515	1		EPA 6010D
7440-70-2	Calcium	335	1	J	EPA 6010D
7440-70-2	Calcium (dissolved)	129	1		EPA 6010D
7440-47-3	Chromium	0.275	1		EPA 6010D
7440-47-3	Chromium (dissolved)	0.00556	1	U	EPA 6010D
7440-48-4	Cobalt	0.0873	1		EPA 6010D
7440-48-4	Cobalt (dissolved)	0.00444	1	U	EPA 6010D
7440-50-8	Copper	0.314	1		EPA 6010D
7440-50-8	Copper (dissolved)	0.0222	1	U	EPA 6010D
7439-89-6	Iron (dissolved)	0.278	1	U	EPA 6010D
7439-92-1	Lead	0.152	1		EPA 6010D
7439-92-1	Lead (dissolved)	0.00556	1	U	EPA 6010D
7439-95-4	Magnesium	172	1		EPA 6010D
7439-95-4	Magnesium (dissolved)	78.2	1		EPA 6010D
7439-96-5	Manganese	3.86	1		EPA 6010D
7439-96-5	Manganese (dissolved)	0.435	1		EPA 6010D
7440-02-0	Nickel	0.193	1		EPA 6010D
7440-02-0	Nickel (dissolved)	0.0111	1	U	EPA 6010D
7440-09-7	Potassium	32.6	1	J	EPA 6010D
7440-09-7	Potassium (dissolved)	6.32	1		EPA 6010D
7440-22-4	Silver	0.00556	1	U	EPA 6010D
7440-22-4	Silver (dissolved)	0.00556	1	U	EPA 6010D

MW 7/28/23

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

MW-106

6

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22K0116

Client: Laurel Environmental Geosciences, D.P.C. Project: 27-09 40th Avenue, Long Island City 19-401

Matrix: Water Laboratory ID: 22K0116-06 File ID: QBICP2-110922BRE_1-100

Sampled: 11/01/22 12:44 Prepared: 11/09/22 10:36 Analyzed: 11/09/22 16:41

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BK20551 Sequence: S2K1016 Calibration: 11/09/22 1 Instrument: WinLabICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-23-5	Sodium	36.4	1	J	EPA 6010D
7440-23-5	Sodium (dissolved)	68.6	1		EPA 6010D
7440-62-2	Vanadium	0.271	1		EPA 6010D
7440-62-2	Vanadium (dissolved)	0.0111	1	U	EPA 6010D
7440-66-6	Zinc	0.577	1		EPA 6010D
7440-66-6	Zinc (dissolved)	0.0278	1	U	EPA 6010D

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FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

MW-106

6

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22K0116

Client: Laurel Environmental Geosciences, D.P.C. Project: 27-09 40th Avenue, Long Island City 19-401

Matrix: Water Laboratory ID: 22K0116-06RE1 File ID: QBI111022ARE_1-086

Sampled: 11/01/22 12:44 Prepared: 11/09/22 10:36 Analyzed: 11/10/22 14:23

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BK20551 Sequence: S2K1032 Calibration: 11/10/22 1 Instrument: WinLabICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7439-89-6	Iron	192	5	D	EPA 6010D

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FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

MW-107

7

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22K0116

Client: Laurel Environmental Geosciences, D.P.C. Project: 27-09 40th Avenue, Long Island City 19-401

Matrix: Water Laboratory ID: 22K0116-07 File ID: QBICP2-110922BRE_1-101

Sampled: 11/01/22 11:22 Prepared: 11/09/22 10:36 Analyzed: 11/09/22 16:45

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BK20551 Sequence: S2K1016 Calibration: 11/09/22 1 Instrument: WinLabICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7429-90-5	Aluminum	24.3	1	B	EPA 6010D
7429-90-5	Aluminum (dissolved)	0.104	1		EPA 6010D
7440-39-3	Barium	0.338	1		EPA 6010D
7440-39-3	Barium (dissolved)	0.0676	1		EPA 6010D
7440-70-2	Calcium	263	1	J	EPA 6010D
7440-70-2	Calcium (dissolved)	196	1		EPA 6010D
7440-47-3	Chromium	0.0553	1		EPA 6010D
7440-47-3	Chromium (dissolved)	0.00653	1		EPA 6010D
7440-48-4	Cobalt	0.0242	1		EPA 6010D
7440-48-4	Cobalt (dissolved)	0.00444	1	U	EPA 6010D
7440-50-8	Copper	0.103	1		EPA 6010D
7440-50-8	Copper (dissolved)	0.0222	1	U	EPA 6010D
7439-89-6	Iron	41.1	1		EPA 6010D
7439-89-6	Iron (dissolved)	0.278	1	U	EPA 6010D
7439-92-1	Lead	0.0404	1		EPA 6010D
7439-92-1	Lead (dissolved)	0.00556	1	U	EPA 6010D
7439-95-4	Magnesium	85.5	1		EPA 6010D
7439-95-4	Magnesium (dissolved)	75.7	1		EPA 6010D
7439-96-5	Manganese	0.920	1		EPA 6010D
7439-96-5	Manganese (dissolved)	0.00556	1	U	EPA 6010D
7440-02-0	Nickel	0.0421	1		EPA 6010D
7440-02-0	Nickel (dissolved)	0.0111	1	U	EPA 6010D
7440-09-7	Potassium	17.1	1	J	EPA 6010D
7440-09-7	Potassium (dissolved)	12.0	1		EPA 6010D
7440-22-4	Silver	0.00556	1	U	EPA 6010D

MW 7/28/23

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

MW-107

7

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22K0116

Client: Laurel Environmental Geosciences, D.P.C. Project: 27-09 40th Avenue, Long Island City 19-401

Matrix: Water Laboratory ID: 22K0116-07 File ID: QBI110922ARE_1-144

Sampled: 11/01/22 11:22 Prepared: 11/09/22 10:48 Analyzed: 11/09/22 17:10

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BK20553 Sequence: S2K1009 Calibration: 11/09/22 1 Instrument: WinLabICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-22-4	Silver (dissolved)	0.00556	1 UJ	~~U~~	EPA 6010D
7440-23-5	Sodium	149	1		EPA 6010D
7440-23-5	Sodium (dissolved)	207	1		EPA 6010D
7440-62-2	Vanadium	0.0557	1		EPA 6010D
7440-62-2	Vanadium (dissolved)	0.0111	1	U	EPA 6010D
7440-66-6	Zinc	0.136	1		EPA 6010D
7440-66-6	Zinc (dissolved)	0.0278	1	U	EPA 6010D

MW 71 28123

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6020B

MW-105

5

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22K0116

Client: Laurel Environmental Geosciences, D.P.C. Project: 27-09 40th Avenue, Long Island City 19-401

Matrix: Water Laboratory ID: 22K0116-05 File ID: QBIMX111422B-141

Sampled: 11/01/22 12:07 Prepared: 11/08/22 09:35 Analyzed: 11/14/22 20:39

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BK20451 Sequence: S2K1505 Calibration: 11/14/22 2 Instrument: Nexion2000C

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-36-0	Antimony	1.11	1	U	EPA 6020B
7440-36-0	Antimony (dissolved)	1.11	1	U	EPA 6020B
7440-38-2	Arsenic	1.18	1		EPA 6020B
7440-38-2	Arsenic (dissolved)	1.11	1	U	EPA 6020B
7440-41-7	Beryllium	0.333	1	U	EPA 6020B
7440-41-7	Beryllium (dissolved)	0.333	1	U	EPA 6020B
7440-43-9	Cadmium	0.556	1	U	EPA 6020B
7440-43-9	Cadmium (dissolved)	0.556	1	U	EPA 6020B
7782-49-2	Selenium	4.93 J	1	~~B~~	EPA 6020B
7782-49-2	Selenium (dissolved)	2.35 J	1		EPA 6020B
7440-28-0	Thallium (dissolved)	1.11	1	U	EPA 6020B
7440-28-0	Thallium	1.11	1	U	EPA 6020B

MW 712823

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6020B

MW-106

6

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22K0116

Client: Laurel Environmental Geosciences, D.P.C. Project: 27-09 40th Avenue, Long Island City 19-401

Matrix: Water Laboratory ID: 22K0116-06 File ID: QBIMX111422B-142

Sampled: 11/01/22 12:44 Prepared: 11/08/22 09:35 Analyzed: 11/14/22 20:42

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BK20451 Sequence: S2K1505 Calibration: 11/14/22 2 Instrument: Nexion2000C

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-36-0	Antimony	1.11	1	U	EPA 6020B
7440-36-0	Antimony (dissolved)	1.11	1	U	EPA 6020B
7440-38-2	Arsenic	19.1	1		EPA 6020B
7440-38-2	Arsenic (dissolved)	4.03	1		EPA 6020B
7440-41-7	Beryllium	1.32	1	J	EPA 6020B
7440-41-7	Beryllium (dissolved)	1.04	1	J	EPA 6020B
7440-43-9	Cadmium	1.35	1		EPA 6020B
7440-43-9	Cadmium (dissolved)	0.785	1		EPA 6020B
7782-49-2	Selenium	61.2	1	~~B~~	EPA 6020B
7782-49-2	Selenium (dissolved)	30.4	1	J	EPA 6020B
7440-28-0	Thallium (dissolved)	1.11	1	U	EPA 6020B
7440-28-0	Thallium	1.97	1	J	EPA 6020B

MJ 7/28/23

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6020B

MW-107

7

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22K0116

Client: Laurel Environmental Geosciences, D.P.C. Project: 27-09 40th Avenue, Long Island City 19-401

Matrix: Water Laboratory ID: 22K0116-07 File ID: QBIMX111422B-145

Sampled: 11/01/22 11:22 Prepared: 11/08/22 09:35 Analyzed: 11/14/22 20:52

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BK20451 Sequence: S2K1505 Calibration: 11/14/22 2 Instrument: Nexion2000C

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-36-0	Antimony	1.11	1	U	EPA 6020B
7440-36-0	Antimony (dissolved)	1.11	1	U	EPA 6020B
7440-38-2	Arsenic	6.79	1		EPA 6020B
7440-38-2	Arsenic (dissolved)	2.18	1		EPA 6020B
7440-41-7	Beryllium	0.594	1	J	EPA 6020B
7440-41-7	Beryllium (dissolved)	0.333	1	U	EPA 6020B
7440-43-9	Cadmium	0.556	1	U	EPA 6020B
7440-43-9	Cadmium (dissolved)	0.556	1	U	EPA 6020B
7782-49-2	Selenium	18.1	1	J	EPA 6020B
7782-49-2	Selenium (dissolved)	9.11	1	J	EPA 6020B
7440-28-0	Thallium (dissolved)	1.11	1	U	EPA 6020B
7440-28-0	Thallium	1.11	1	U	EPA 6020B

NW 7/28/23

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7470

MW-105

5

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22K0116

Client: Laurel Environmental Geosciences, D.P.C. Project: 27-09 40th Avenue, Long Island City 19-401

Matrix: Water Laboratory ID: 22K0116-05 File ID: QBHg11022022A-036

Sampled: 11/01/22 12:07 Prepared: 11/02/22 17:30 Analyzed: 11/02/22 17:30

Solids: 0.00 Preparation: EPA SW846-7470A Initial/Final: 100 mL / 100 mL

Batch: BK20166 Sequence: Calibration: Instrument: Buck 410

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0002	1	U	EPA 7470

NW 7/28/23

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7470

MW-106

6

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22K0116

Client: Laurel Environmental Geosciences, D.P.C. Project: 27-09 40th Avenue, Long Island City 19-401

Matrix: Water Laboratory ID: 22K0116-06 File ID: QBHg11022022A-039

Sampled: 11/01/22 12:44 Prepared: 11/02/22 17:30 Analyzed: 11/02/22 17:30

Solids: 0.00 Preparation: EPA SW846-7470A Initial/Final: 100 mL / 100 mL

Batch: BK20166 Sequence: Calibration: Instrument: Buck 410

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0002	1	U	EPA 7470

NJ 7128123

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7470

MW-107

7

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22K0116

Client: Laurel Environmental Geosciences, D.P.C. Project: 27-09 40th Avenue, Long Island City 19-401

Matrix: Water Laboratory ID: 22K0116-07 File ID: QBHg11022022A-040

Sampled: 11/01/22 11:22 Prepared: 11/02/22 17:30 Analyzed: 11/02/22 17:30

Solids: 0.00 Preparation: EPA SW846-7470A Initial/Final: 100 mL / 100 mL

Batch: BK20166 Sequence: Calibration: Instrument: Buck 410

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7439-97-6	Mercury	0.0002	1	U	EPA 7470

NW 7/28/23

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7470

MW-105

SD

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22K0116

Client: Laurel Environmental Geosciences, D.P.C. Project: 27-09 40th Avenue, Long Island City 19-401

Matrix: Water Laboratory ID: 22K0116-05 File ID: QBHg11072022A-029

Sampled: 11/01/22 12:07 Prepared: 11/07/22 20:11 Analyzed: 11/07/22 20:11

Solids: 0.00 Preparation: EPA SW846-7470A Initial/Final: 100 mL / 100 mL

Batch: BK20423 Sequence: Calibration: 11/07/22 2 Instrument: Buck 410

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7439-97-6	Mercury (dissolved)	0.0016	1		EPA 7470

NW 7/28/23

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7470

MW-106

6D

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22K0116

Client: Laurel Environmental Geosciences, D.P.C. Project: 27-09 40th Avenue, Long Island City 19-401

Matrix: Water Laboratory ID: 22K0116-06 File ID: QBHg11072022A-030

Sampled: 11/01/22 12:44 Prepared: 11/07/22 20:11 Analyzed: 11/07/22 20:11

Solids: 0.00 Preparation: EPA SW846-7470A Initial/Final: 100 mL / 100 mL

Batch: BK20423 Sequence: Calibration: 11/07/22 2 Instrument: Buck 410

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7439-97-6	Mercury (dissolved)	0.0012	1		EPA 7470

MW 1/28/23

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 7470

MW-107

7D

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22K0116

Client: Laurel Environmental Geosciences, D.P.C. Project: 27-09 40th Avenue, Long Island City 19-401

Matrix: Water Laboratory ID: 22K0116-07 File ID: QBHg11072022A-031

Sampled: 11/01/22 11:22 Prepared: 11/07/22 20:11 Analyzed: 11/07/22 20:11

Solids: 0.00 Preparation: EPA SW846-7470A Initial/Final: 100 mL / 100 mL

Batch: BK20423 Sequence: Calibration: 11/07/22 2 Instrument: Buck 410

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7439-97-6	Mercury (dissolved)	0.0011	1		EPA 7470

NW 7/28/23

ENVIRONMENTAL
Data Services, Inc.

DATA USABILITY SUMMARY REPORT
27-09 40th AVENUE, LONG ISLAND CITY, NEW YORK

Client: Liberty Environmental, Reading, Pennsylvania
SDG: 22L0234
Laboratory: York Analytical Laboratories, Stratford, Connecticut
Site: 27-09 40th Avenue, Long Island City, New York
Date: July 29, 2023

VOC, Anions, Alkalinity			
EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1†	IW-1 GWS @42'	22L0234-01	Water
2†	IW-2 GWS @40'	22L0234-02	Water
3	MW-110 GWS @37'	22L0234-03	Water
3MS^	MW-110 GWS @37'MS	22L0234-03MS	Water
3DUP^	MW-110 GWS @37'DUP	22L0234-03DUP	Water
4	MW-109 GWS @35'	22L0234-04	Water
4MS^	MW-109 GWS @35'MS	22L0234-04MS	Water
4DUP^	MW-109 GWS @35'DUP	22L0234-04DUP	Water
5	MW-108 GWS @36'	22L0234-05	Water
6	MW-106 GWS @37'	22L0234-06	Water
7*	MW103 GWS @38'	22L0234-07	Water

* - VOC only † - VOC & Anions only ^ - Anions only

Metals (6010D, 6020B)			
EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
2*	IW-2 GWS @40'	22L0234-02	Water
3†	MW-110 GWS @37'	22L0234-03	Water
4†	MW-109 GWS @35'	22L0234-04	Water
5†	MW-108 GWS @36'	22L0234-05	Water
5MS^	MW-108 GWS @36'MS	22L0234-05MS	Water
5DUP^	MW-108 GWS @36'DUP	22L0234-05DUP	Water
6†	MW-106 GWS @37'	22L0234-06	Water
8†	IW-1 GWS @42'	22L0234-08	Water
8MSβ	IW-1 GWS @42'MS	22L0234-08MS	Water
8DUPβ	IW-1 GWS @42'DUP	22L0234-08DUP	Water

* - Total Metals only † - Dissolved Metals only β - 6010D Metals only ^ - 6020B Metals only

A Data Usability Summary Review was performed on the analytical data for eight water samples collected on November 23 - December 1, 2022 by Liberty at the 40th Avenue site in Long Island City, New York. The samples were analyzed under Environmental Protection Agency (USEPA) "Test Methods for the Evaluation of Solid Waste, USEPA SW-846, Third Edition, September 1986, with revisions", the "Methods for Chemical Analysis of Water and Wastes" and the "Standard Methods for Examination of Water and Wastewater."

Specific method references are as follows:

Analysis	*Method References*
VOC	USEPA SW-846 Method 8260C
Metals (T/D)	USEPA SW-846 Method 6010D
Metals (T/D)	USEPA SW-846 Method 6020B
Anions	USEPA Method 300.0
Alkalinity	Standard Method SM2320B

The data have been validated according to the protocols and quality control (QC) requirements of the analytical methods and the USEPA Region II Data Review Standard Operating Procedures (SOPs) as follows:

- SOP Number HW-33A, Revision 1, September 2016: Low/Medium Volatile Data Validation;
- SOP Number HW-3a, Revision 1, September 2016: ICP-AES Data Validation;
- SOP Number HW-3b, Revision 1, September 2016: ICP-MS Data Validation;
- and the reviewer's professional judgment.

The following items/criteria were reviewed for this report:

Organics

- Data Completeness
- Holding times and sample preservation
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample (LCS) recoveries
- Method blank and field blank contamination
- Gas Chromatography (GC)/Mass Spectroscopy (MS) tuning
- Initial and continuing calibration summaries
- Compound Quantitation
- Internal standard area and retention time summary forms
- Tentatively Identified Compounds (TICs)
- Field Duplicate sample precision

Inorganics

- Holding times and sample preservation
- Inductively Coupled Plasma/Mass Spectrometry (ICP/MS) Tuning
- Initial and continuing calibration verifications
- Method blank and field QC blank contamination
- ICP Interference Check Sample
- Laboratory Control Sample (LCS) recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Duplicate Sample Analysis
- ICP Serial Dilution
- Compound Quantitation
- Field Duplicate sample precision

Data Usability Assessment

There were no rejections of data.

The data are acceptable for the intended purposes as qualified for the deficiencies detailed in this report.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedances of QC criteria.

Data Completeness

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

Volatile Organic Compounds (VOCs)

Holding Times

- All samples were analyzed within 14 days for preserved water samples.

GC/MS Tuning

- All criteria were met.

Initial Calibration

- The initial calibrations exhibited acceptable %RSD and/or correlation coefficients and mean RRF values.

Continuing Calibration

- The following table presents compounds that exceeded percent difference (%D) and/or RRF values <0.05 (0.01 for poor performers) in the continuing calibration (CCAL). A low RRF indicates poor instrument sensitivity for these compounds. Positive results for these compounds in the affected samples are considered estimated and qualified (J). Non-detect results for these compounds in the affected samples are rejected (R) and are unusable for project objectives. A high %D may indicate a potential high or low bias. All results for these compounds in affected samples are considered estimated and qualified (J/UJ).

CCAL Date	Compound	%D/RRF	Qualifier	Affected Samples
12/26/22 (0915)	1,4-Dioxane	24.2%	UJ	2
	Bromomethane	38.7%		
	Hexachlorobutadiene	27.8%		
	trans-1,4-dichloro-2-butene	22.2%		
	Trichlorofluoromethane	48.0%	None	See LCS
12/07/22 (0911)	Acetone	44.0%	J	1
	Bromomethane	42.9%	UJ	1
	Trichlorofluoromethane	45.9%	None	See LCS
12/09/22 (0933)	Hexachlorobutadiene	23.8%	UJ	7
	tert-Butyl-Alcohol	36.5%		
	Tetrachloroethylene	20.3%	None	See LCS
	Trichlorofluoromethane	49.1%		
12/09/22 (0936)	1,1-Dichloroethene	25.9%	J/UJ	3-6
	Carbon Tetrachloride	26.0%	UJ	3-6
	Chloromethane	39.5%		
	Trichlorofluoromethane	37.0%	None	See LCS
	Vinyl Chloride	30.7%	UJ	4-6
12/13/22 (0902)	Tetrachloroethylene	23.9%	None	See LCS

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC samples were not collected.

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate percent recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- MS/MSD samples were not analyzed.

Laboratory Control Samples

- The following table presents LCS percent recoveries (%R) outside the QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J). Results are valid and usable, however possibly biased. For a severely low %R (<10%), non-detect results are rejected (R) and are unusable for project objectives.

LCS ID	Compound	%R	Qualifier	Affected Samples
BL20383-BS1	1,3-Dichlorobenzene	85.2%	UJ	1
	1,4-Dichlorobenzene	84.7%		
	Tetrachloroethylene	72.7%	J	
	n-Butylbenzene	77.1%	UJ	
	Trichlorofluoromethane	53.6%	UJ	
BL20554-BS1	Tetrachloroethylene	74.2%	J	4
	Trichlorofluoromethane	55.6%	J/UJ	3-6
BL20555-BS1	Tetrachloroethylene	72.7%	J	7
	Trichlorofluoromethane	50.4%		
BL20637-BS1	Tetrachloroethylene	75.3%	J	3RE, 6RE
BL20719-BS1	Tetrachloroethylene	66.6%	J	5RE
BL20299-BS1	2-Butanone	12.3%	UJ	2
	Tetrachloroethylene	75.4%		
	Trichlorofluoromethane	49.6%		

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Compound Quantitation

- EDS samples 3, 5, and 6 were analyzed at a 10X and/or 50X dilution for tetrachloroethylene due to high concentrations. The reporting limits were adjusted accordingly. No action was required.

Tentatively Identified Compounds (TICs)

- TICs were not reported.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

Metals (6010/6020)

Holding Times

- All samples were prepared and analyzed within 180 days for all metals.

ICP/MS Tuning

- All criteria were met.

Initial Calibration Verification

- All initial calibration criteria were met.

Continuing Calibration Verification

- All continuing calibration criteria were met.

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC samples were not collected.

ICP Interference Check Sample

- The ICP interference check sample exhibited acceptable percent recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The MS/MSD sample exhibited acceptable %R and RPD values.

Laboratory Control Samples

- The LCS sample exhibited acceptable percent recoveries (%R).

ICP Serial Dilution

- ICP serial dilution percent differences (%D) were within acceptance limits except the following. For a high %D, positive results are considered estimated and qualified (J). Results are valid and usable, however possibly biased.

Sample ID	Compound	%D	Qualifier	Affected Samples
8	Calcium	179%	J	3-6, 8
	Chromium	10.7%	J	6, 8

Compound Quantitation

- Several samples were analyzed for various dilutions due to high concentrations of target compounds. The reporting limits were adjusted accordingly. No action was required.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

Anions & Alkalinity

Holding Times

- All samples were prepared and analyzed the recommended holding times for each method except for the following.

Nitrate				
EDS Sample	Date Collected	Date Analyzed	# of Days	Qualifier
1, 2	11/23/22	12/07/22	14	J
3-6	12/01/22	12/07/22	6	J

Initial Calibration Verification

- All initial calibration criteria were met.

Continuing Calibration Verification

- All continuing calibration criteria were met.

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC samples were not collected.

Matrix Spike/Matrix Spike Duplicate (MS/DUP) Recoveries

- The following table presents MS/MSD samples that exhibited percent recoveries (%R) outside the QC limits and/or relative percent differences (RPD) above QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J).

MS/MSD Sample ID	Compound	MS %R/RPD	Qualifier	Affected samples
3	Chloride	-3270%/OK	None	4X Rule Applies
	Nitrate	-277%/OK	None	See HT
	Sulfate	-381%/22%	None	4X Rule Applies
4	Chloride	-852%/OK	None	4X Rule Applies
	Sulfate	-117%/OK		

Duplicate Sample Analysis

- Duplicate samples were not analyzed.

Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries (%R).

Compound Quantitation

- Several samples were analyzed at various dilutions due to high concentrations of target compounds. The reporting limits were adjusted accordingly. No action was required.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

Please contact the undersigned at (561) 475-2000 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 8/1/23

Nancy Weaver
Senior Chemist

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limits is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

IW-1 GWS @42'

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22L0234

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 22L0234-01 File ID: V834608.D

Sampled: 11/23/22 17:26 Prepared: 12/07/22 09:00 Analyzed: 12/07/22 12:37

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BL20383 Sequence: S2L0717 Calibration: SL20002 Instrument: VOA No. 8

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.50	U
75-34-3	1,1-Dichloroethane	1	0.50	U
75-35-4	1,1-Dichloroethylene	1	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	U
106-93-4	1,2-Dibromoethane	1	0.50	U
95-50-1	1,2-Dichlorobenzene	1	0.50	U
107-06-2	1,2-Dichloroethane	1	0.50	U
78-87-5	1,2-Dichloropropane	1	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.50	UJ ~~U~~
106-46-7	1,4-Dichlorobenzene	1	0.50	UJ ~~U~~
123-91-1	1,4-Dioxane	1	40	U
78-93-3	2-Butanone	1	2.1	
591-78-6	2-Hexanone	1	0.50	U
108-10-1	4-Methyl-2-pentanone	1	0.50	U
67-64-1	Acetone	1	6.5	J
107-02-8	Acrolein	1	0.47	J
107-13-1	Acrylonitrile	1	0.50	U
71-43-2	Benzene	1	0.50	U
74-97-5	Bromochloromethane	1	0.50	U
75-27-4	Bromodichloromethane	1	0.50	U
75-25-2	Bromoform	1	0.50	U
74-83-9	Bromomethane	1	0.50	UJ ~~U~~
75-15-0	Carbon disulfide	1	0.50	U
56-23-5	Carbon tetrachloride	1	0.50	U
108-90-7	Chlorobenzene	1	0.50	U
75-00-3	Chloroethane	1	0.50	U
67-66-3	Chloroform	1	0.50	U
74-87-3	Chloromethane	1	0.50	U
156-59-2	cis-1,2-Dichloroethylene	1	0.50	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U
110-82-7	Cyclohexane	1	0.50	U

NW 7/29/23

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

IW-1 GWS @42'

1

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22L0234

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 22L0234-01 File ID: V834608.D

Sampled: 11/23/22 17:26 Prepared: 12/07/22 09:00 Analyzed: 12/07/22 12:37

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BL20383 Sequence: S2L0717 Calibration: SL20002 Instrument: VOA No. 8

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
124-48-1	Dibromochloromethane	1	0.50	U
74-95-3	Dibromomethane	1	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.50	U
100-41-4	Ethyl Benzene	1	0.50	U
87-68-3	Hexachlorobutadiene	1	0.50	U
98-82-8	Isopropylbenzene	1	0.50	U
79-20-9	Methyl acetate	1	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U
108-87-2	Methylcyclohexane	1	0.50	U
75-09-2	Methylene chloride	1	2.0	U
104-51-8	n-Butylbenzene	1	0.50	UJ
103-65-1	n-Propylbenzene	1	0.50	U
95-47-6	o-Xylene	1	0.50	U
179601-23-1	p- & m- Xylenes	1	1.0	U
99-87-6	p-Isopropyltoluene	1	0.50	U
135-98-8	sec-Butylbenzene	1	0.50	U
100-42-5	Styrene	1	0.50	U
75-65-0	tert-Butyl alcohol (TBA)	1	4.2	
98-06-6	tert-Butylbenzene	1	0.50	U
127-18-4	Tetrachloroethylene	1	3.4	J
108-88-3	Toluene	1	0.50	U
156-60-5	trans-1,2-Dichloroethylene	1	0.50	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U
110-57-6	trans-1,4-dichloro-2-butene	1	0.50	U
79-01-6	Trichloroethylene	1	0.50	U
75-69-4	Trichlorofluoromethane	1	0.50	UJ
75-01-4	Vinyl Chloride	1	0.50	U
1330-20-7	Xylenes, Total	1	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	12.6	126	69 - 130	
SURR: Toluene-d8	10.0	9.34	93.4	81 - 117	
SURR: p-Bromofluorobenzene	10.0	9.74	97.4	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	302378	5.834	327938	5.834	
ISTD: Chlorobenzene-d5	1168647	8.855	1235904	8.855	
ISTD: 1,2-Dichlorobenzene-d4	504365	11.844	521856	11.838	

* Values outside of QC limits

NW7129123

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

IW-2 GWS @40'

2

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22L0234

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 22L0234-02 File ID: V10C015146.D

Sampled: 11/23/22 17:52 Prepared: 12/06/22 09:00 Analyzed: 12/06/22 12:09

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BL20299 Sequence: S2L0715 Calibration: SL20009 Instrument: VOA No. 10

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	2	1.0	U
71-55-6	1,1,1-Trichloroethane	2	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	2	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	2	1.0	U
79-00-5	1,1,2-Trichloroethane	2	1.0	U
75-34-3	1,1-Dichloroethane	2	1.0	U
75-35-4	1,1-Dichloroethylene	2	1.0	U
87-61-6	1,2,3-Trichlorobenzene	2	1.0	U
96-18-4	1,2,3-Trichloropropane	2	1.0	U
120-82-1	1,2,4-Trichlorobenzene	2	1.0	U
95-63-6	1,2,4-Trimethylbenzene	2	1.0	U
96-12-8	1,2-Dibromo-3-chloropropane	2	1.0	U
106-93-4	1,2-Dibromoethane	2	1.0	U
95-50-1	1,2-Dichlorobenzene	2	1.0	U
107-06-2	1,2-Dichloroethane	2	1.0	U
78-87-5	1,2-Dichloropropane	2	1.0	U
108-67-8	1,3,5-Trimethylbenzene	2	1.0	U
541-73-1	1,3-Dichlorobenzene	2	1.0	U
106-46-7	1,4-Dichlorobenzene	2	1.0	U
123-91-1	1,4-Dioxane	2	80	UJ ~~U~~
78-93-3	2-Butanone	2	1.0	UJ ~~U~~
591-78-6	2-Hexanone	2	1.0	U
108-10-1	4-Methyl-2-pentanone	2	1.0	U
67-64-1	Acetone	2	8.2	D
107-02-8	Acrolein	2	1.0	U
107-13-1	Acrylonitrile	2	1.0	U
71-43-2	Benzene	2	1.0	U
74-97-5	Bromochloromethane	2	1.0	U
75-27-4	Bromodichloromethane	2	1.0	U
75-25-2	Bromoform	2	1.0	U
74-83-9	Bromomethane	2	1.0	UJ ~~U~~
75-15-0	Carbon disulfide	2	1.0	U
56-23-5	Carbon tetrachloride	2	1.0	U
108-90-7	Chlorobenzene	2	1.0	U
75-00-3	Chloroethane	2	1.0	U
67-66-3	Chloroform	2	1.0	U
74-87-3	Chloromethane	2	1.0	U
156-59-2	cis-1,2-Dichloroethylene	2	1.0	U
10061-01-5	cis-1,3-Dichloropropylene	2	1.0	U
110-82-7	Cyclohexane	2	1.0	U

NW 7/29/23

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

IW-2 GWS @40'

2

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22L0234

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 22L0234-02 File ID: V10C015146.D

Sampled: 11/23/22 17:52 Prepared: 12/06/22 09:00 Analyzed: 12/06/22 12:09

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BL20299 Sequence: S2L0715 Calibration: SL20009 Instrument: VOA No. 10

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
124-48-1	Dibromochloromethane	2	1.0	U
74-95-3	Dibromomethane	2	1.0	U
75-71-8	Dichlorodifluoromethane	2	1.0	U
100-41-4	Ethyl Benzene	2	1.0	U
87-68-3	Hexachlorobutadiene	2	1.0	UJ ~~U~~
98-82-8	Isopropylbenzene	2	1.0	U
79-20-9	Methyl acetate	2	1.0	U
1634-04-4	Methyl tert-butyl ether (MTBE)	2	1.0	U
108-87-2	Methylcyclohexane	2	1.0	U
75-09-2	Methylene chloride	2	8.3	~~B~~ ✓
104-51-8	n-Butylbenzene	2	1.0	U
103-65-1	n-Propylbenzene	2	1.0	U
95-47-6	o-Xylene	2	1.0	U
179601-23-1	p- & m- Xylenes	2	2.0	U
99-87-6	p-Isopropyltoluene	2	1.0	U
135-98-8	sec-Butylbenzene	2	1.0	U
100-42-5	Styrene	2	1.0	U
75-65-0	tert-Butyl alcohol (TBA)	2	2.0	U
98-06-6	tert-Butylbenzene	2	1.0	U
127-18-4	Tetrachloroethylene	2	1.0	UJ ~~U~~
108-88-3	Toluene	2	1.0	U
156-60-5	trans-1,2-Dichloroethylene	2	1.0	U
10061-02-6	trans-1,3-Dichloropropylene	2	1.0	U
110-57-6	trans-1,4-dichloro-2-butene	2	1.0	UJ ~~U~~
79-01-6	Trichloroethylene	2	1.0	U
75-69-4	Trichlorofluoromethane	2	1.0	UJ ~~U~~
75-01-4	Vinyl Chloride	2	1.0	U
1330-20-7	Xylenes, Total	2	3.0	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	11.4	114	69 - 130	
SURR: Toluene-d8	10.0	9.58	95.8	81 - 117	
SURR: p-Bromofluorobenzene	10.0	9.25	92.5	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	116740	5.829	120574	5.826	
ISTD: Chlorobenzene-d5	338333	8.855	345229	8.855	
ISTD: 1,2-Dichlorobenzene-d4	126319	11.839	114645	11.836	

* Values outside of QC limits

MW 7/29/23

FORM I

ORGANIC ANALYSIS DATA SHEET

EPA 8260C

MW110-GWS @37'

3

Laboratory: York Analytical Laboratories, Inc. - Stratford | SDG: 22L0234

Client: Liberty Environmental, Inc | Project: 220192 27-09 40th Ave.

Matrix: Water | Laboratory ID: 22L0234-03 | File ID: V834687.D

Sampled: 12/01/22 17:38 | Prepared: 12/09/22 09:00 | Analyzed: 12/09/22 17:25

Solids: | Preparation: EPA 5030B | Initial/Final: 25 mL / 25 mL

Batch: BL20554 | Sequence: S2L1229 | Calibration: SL20002 | Instrument: VOA No. 8

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.50	U
79-00-5	1,1,2-Trichloroethane	1	5.1	
75-34-3	1,1-Dichloroethane	1	0.50	U
75-35-4	1,1-Dichloroethylene	1	0.28	J ✓
87-61-6	1,2,3-Trichlorobenzene	1	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	U
106-93-4	1,2-Dibromoethane	1	0.50	U
95-50-1	1,2-Dichlorobenzene	1	0.50	U
107-06-2	1,2-Dichloroethane	1	0.50	U
78-87-5	1,2-Dichloropropane	1	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.50	U
123-91-1	1,4-Dioxane	1	40	U
78-93-3	2-Butanone	1	0.50	U
591-78-6	2-Hexanone	1	0.50	U
108-10-1	4-Methyl-2-pentanone	1	0.50	U
67-64-1	Acetone	1	2.0	U
107-02-8	Acrolein	1	0.50	U
107-13-1	Acrylonitrile	1	0.50	U
71-43-2	Benzene	1	0.50	U
74-97-5	Bromochloromethane	1	0.50	U
75-27-4	Bromodichloromethane	1	0.50	U
75-25-2	Bromoform	1	0.50	U
74-83-9	Bromomethane	1	0.50	U
75-15-0	Carbon disulfide	1	0.50	U
56-23-5	Carbon tetrachloride	1	0.50	UJ ~~U~~
108-90-7	Chlorobenzene	1	0.50	U
75-00-3	Chloroethane	1	0.50	U
67-66-3	Chloroform	1	1.4	
74-87-3	Chloromethane	1	0.50	UJ ~~U~~
156-59-2	cis-1,2-Dichloroethylene	1	3.5	
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U
110-82-7	Cyclohexane	1	0.50	U

7/29/23

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

MW110-GWS @37'

3

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22L0234

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 22L0234-03 File ID: V834687.D

Sampled: 12/01/22 17:38 Prepared: 12/09/22 09:00 Analyzed: 12/09/22 17:25

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BL20554 Sequence: S2L1229 Calibration: SL20002 Instrument: VOA No. 8

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
124-48-1	Dibromochloromethane	1	0.50	U
74-95-3	Dibromomethane	1	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.50	U
100-41-4	Ethyl Benzene	1	0.50	U
87-68-3	Hexachlorobutadiene	1	0.50	U
98-82-8	Isopropylbenzene	1	0.50	U
79-20-9	Methyl acetate	1	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U
108-87-2	Methylcyclohexane	1	0.50	U
75-09-2	Methylene chloride	1	2.0	U
104-51-8	n-Butylbenzene	1	0.50	U
103-65-1	n-Propylbenzene	1	0.50	U
95-47-6	o-Xylene	1	0.50	U
179601-23-1	p- & m- Xylenes	1	1.0	U
99-87-6	p-Isopropyltoluene	1	0.50	U
135-98-8	sec-Butylbenzene	1	0.50	U
100-42-5	Styrene	1	0.50	U
75-65-0	tert-Butyl alcohol (TBA)	1	1.0	U
98-06-6	tert-Butylbenzene	1	0.50	U
108-88-3	Toluene	1	0.50	U
156-60-5	trans-1,2-Dichloroethylene	1	0.64	
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U
110-57-6	trans-1,4-dichloro-2-butene	1	0.50	U
79-01-6	Trichloroethylene	1	3.8	
75-69-4	Trichlorofluoromethane	1	1.6	J
75-01-4	Vinyl Chloride	1	0.50	UJ ~~U~~
1330-20-7	Xylenes, Total	1	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.6	106	69 - 130	
SURR: Toluene-d8	10.0	9.26	92.6	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.2	102	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	302740	5.834	309093	5.829	
ISTD: Chlorobenzene-d5	1202906	8.855	1189191	8.855	
ISTD: 1,2-Dichlorobenzene-d4	483587	11.844	510958	11.838	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

MW110-GWS @37'

3RE

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	22L0234
Client:	Liberty Environmental, Inc			Project:	220192 27-09 40th Ave.
Matrix:	Water	Laboratory ID:	22L0234-03RE1	File ID:	V10C015273.D
Sampled:	12/01/22 17:38	Prepared:	12/12/22 09:00	Analyzed:	12/12/22 15:46
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BL20637	Sequence:	S2L1236	Calibration:	SL20009
Instrument:	VOA No. 10				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
127-18-4	Tetrachloroethylene	10	360	J D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	9.70	97.0	69 - 130	
SURR: Toluene-d8	10.0	9.86	98.6	81 - 117	
SURR: p-Bromofluorobenzene	10.0	9.94	99.4	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	107065	5.829	112599	5.829	
ISTD: Chlorobenzene-d5	309207	8.855	312957	8.855	
ISTD: 1,2-Dichlorobenzene-d4	103609	11.835	99639	11.839	

* Values outside of QC limits

MW 7/29/23

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

MW109-GWS @35'

4

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22L0234

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 22L0234-04 File ID: V834688.D

Sampled: 12/01/22 18:27 Prepared: 12/09/22 09:00 Analyzed: 12/09/22 17:54

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BL20554 Sequence: S2L1229 Calibration: SL20002 Instrument: VOA No. 8

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.50	U
75-34-3	1,1-Dichloroethane	1	0.50	U
75-35-4	1,1-Dichloroethylene	1	0.50	UJ ~~U~~
87-61-6	1,2,3-Trichlorobenzene	1	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	U
106-93-4	1,2-Dibromoethane	1	0.50	U
95-50-1	1,2-Dichlorobenzene	1	0.50	U
107-06-2	1,2-Dichloroethane	1	0.50	U
78-87-5	1,2-Dichloropropane	1	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.50	U
123-91-1	1,4-Dioxane	1	40	U
78-93-3	2-Butanone	1	0.50	U
591-78-6	2-Hexanone	1	0.50	U
108-10-1	4-Methyl-2-pentanone	1	0.50	U
67-64-1	Acetone	1	1.5	J
107-02-8	Acrolein	1	0.50	U
107-13-1	Acrylonitrile	1	0.50	U
71-43-2	Benzene	1	0.50	U
74-97-5	Bromochloromethane	1	0.50	U
75-27-4	Bromodichloromethane	1	0.50	U
75-25-2	Bromoform	1	0.50	U
74-83-9	Bromomethane	1	0.50	U
75-15-0	Carbon disulfide	1	0.50	U
56-23-5	Carbon tetrachloride	1	0.50	UJ ~~U~~
108-90-7	Chlorobenzene	1	0.50	U
75-00-3	Chloroethane	1	0.50	U
67-66-3	Chloroform	1	0.37	J
74-87-3	Chloromethane	1	0.50	UJ ~~U~~
156-59-2	cis-1,2-Dichloroethylene	1	0.50	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U
110-82-7	Cyclohexane	1	0.50	U

MW 7/29/23

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

MW109-GWS @35'

4

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22L0234

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 22L0234-04 File ID: V834688.D

Sampled: 12/01/22 18:27 Prepared: 12/09/22 09:00 Analyzed: 12/09/22 17:54

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BL20554 Sequence: S2L1229 Calibration: SL20002 Instrument: VOA No. 8

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
124-48-1	Dibromochloromethane	1	0.50	U
74-95-3	Dibromomethane	1	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.50	U
100-41-4	Ethyl Benzene	1	0.50	U
87-68-3	Hexachlorobutadiene	1	0.50	U
98-82-8	Isopropylbenzene	1	0.50	U
79-20-9	Methyl acetate	1	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U
108-87-2	Methylcyclohexane	1	0.50	U
75-09-2	Methylene chloride	1	2.0	U
104-51-8	n-Butylbenzene	1	0.50	U
103-65-1	n-Propylbenzene	1	0.50	U
95-47-6	o-Xylene	1	0.50	U
179601-23-1	p- & m- Xylenes	1	1.0	U
99-87-6	p-Isopropyltoluene	1	0.50	U
135-98-8	sec-Butylbenzene	1	0.50	U
100-42-5	Styrene	1	0.50	U
75-65-0	tert-Butyl alcohol (TBA)	1	1.0	U
98-06-6	tert-Butylbenzene	1	0.50	U
127-18-4	Tetrachloroethylene	1	72	J
108-88-3	Toluene	1	0.50	U
156-60-5	trans-1,2-Dichloroethylene	1	0.50	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U
110-57-6	trans-1,4-dichloro-2-butene	1	0.50	U
79-01-6	Trichloroethylene	1	5.2	
75-69-4	Trichlorofluoromethane	1	0.50	UJ ~~U~~
75-01-4	Vinyl Chloride	1	0.50	UJ ~~U~~
1330-20-7	Xylenes, Total	1	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.5	105	69 - 130	
SURR: Toluene-d8	10.0	9.42	94.2	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.1	101	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	292679	5.834	309093	5.829	
ISTD: Chlorobenzene-d5	1132451	8.855	1189191	8.855	
ISTD: 1,2-Dichlorobenzene-d4	457915	11.844	510958	11.838	

* Values outside of QC limits

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

MW108-GWS @36'

5

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22L0234

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 22L0234-05 File ID: V834689.D

Sampled: 12/01/22 19:40 Prepared: 12/09/22 09:00 Analyzed: 12/09/22 18:22

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BL20554 Sequence: S2L1229 Calibration: SL20002 Instrument: VOA No. 8

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.50	U
75-34-3	1,1-Dichloroethane	1	0.50	U
75-35-4	1,1-Dichloroethylene	1	0.50	UJ ~~U~~
87-61-6	1,2,3-Trichlorobenzene	1	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	U
106-93-4	1,2-Dibromoethane	1	0.50	U
95-50-1	1,2-Dichlorobenzene	1	0.50	U
107-06-2	1,2-Dichloroethane	1	0.50	U
78-87-5	1,2-Dichloropropane	1	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.50	U
123-91-1	1,4-Dioxane	1	40	U
78-93-3	2-Butanone	1	0.50	U
591-78-6	2-Hexanone	1	0.50	U
108-10-1	4-Methyl-2-pentanone	1	0.50	U
67-64-1	Acetone	1	2.0	U
107-02-8	Acrolein	1	0.50	U
107-13-1	Acrylonitrile	1	0.50	U
71-43-2	Benzene	1	0.50	U
74-97-5	Bromochloromethane	1	0.50	U
75-27-4	Bromodichloromethane	1	0.50	U
75-25-2	Bromoform	1	0.50	U
74-83-9	Bromomethane	1	0.50	U
75-15-0	Carbon disulfide	1	0.50	U
56-23-5	Carbon tetrachloride	1	0.50	UJ ~~U~~
108-90-7	Chlorobenzene	1	0.50	U
75-00-3	Chloroethane	1	0.50	U
67-66-3	Chloroform	1	1.8	
74-87-3	Chloromethane	1	0.50	UJ ~~U~~
156-59-2	cis-1,2-Dichloroethylene	1	0.52	
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U
110-82-7	Cyclohexane	1	0.50	U

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

MW108-GWS @36'

5

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22L0234

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 22L0234-05 File ID: V834689.D

Sampled: 12/01/22 19:40 Prepared: 12/09/22 09:00 Analyzed: 12/09/22 18:22

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BL20554 Sequence: S2L1229 Calibration: SL20002 Instrument: VOA No. 8

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
124-48-1	Dibromochloromethane	1	0.50	U
74-95-3	Dibromomethane	1	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.50	U
100-41-4	Ethyl Benzene	1	0.50	U
87-68-3	Hexachlorobutadiene	1	0.50	U
98-82-8	Isopropylbenzene	1	0.50	U
79-20-9	Methyl acetate	1	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U
108-87-2	Methylcyclohexane	1	0.50	U
75-09-2	Methylene chloride	1	2.0	U
104-51-8	n-Butylbenzene	1	0.50	U
103-65-1	n-Propylbenzene	1	0.50	U
95-47-6	o-Xylene	1	0.50	U
179601-23-1	p- & m- Xylenes	1	1.0	U
99-87-6	p-Isopropyltoluene	1	0.50	U
135-98-8	sec-Butylbenzene	1	0.50	U
100-42-5	Styrene	1	0.50	U
75-65-0	tert-Butyl alcohol (TBA)	1	1.0	U
98-06-6	tert-Butylbenzene	1	0.50	U
108-88-3	Toluene	1	0.50	U
156-60-5	trans-1,2-Dichloroethylene	1	0.50	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U
110-57-6	trans-1,4-dichloro-2-butene	1	0.50	U
79-01-6	Trichloroethylene	1	10	
75-69-4	Trichlorofluoromethane	1	0.50	UJ
75-01-4	Vinyl Chloride	1	0.50	U
1330-20-7	Xylenes, Total	1	1.5	UJ

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.4	104	69 - 130	
SURR: Toluene-d8	10.0	9.24	92.4	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.1	101	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	302726	5.834	309093	5.829	
ISTD: Chlorobenzene-d5	1200400	8.861	1189191	8.855	
ISTD: 1,2-Dichlorobenzene-d4	484646	11.844	510958	11.838	

* Values outside of QC limits

7/29/23

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

MW108-GWS @36'

5RE

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	22L0234
Client:	Liberty Environmental, Inc			Project:	220192 27-09 40th Ave.
Matrix:	Water	Laboratory ID:	22L0234-05RE2	File ID:	V10C015288.D
Sampled:	12/01/22 19:40	Prepared:	12/13/22 09:00	Analyzed:	12/13/22 12:45
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BL20719	Sequence:	S2L1317	Calibration:	SL20009
Instrument:	VOA No. 10				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
127-18-4	Tetrachloroethylene	50	1600	J D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.1	101	69 - 130	D
SURR: Toluene-d8	10.0	9.81	98.1	81 - 117	D
SURR: p-Bromofluorobenzene	10.0	9.91	99.1	79 - 122	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	109264	5.829	112055	5.826	
ISTD: Chlorobenzene-d5	320113	8.855	326464	8.852	
ISTD: 1,2-Dichlorobenzene-d4	111160	11.836	108919	11.839	

* Values outside of QC limits

MW 7/29/23

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

MW106-GWS @37'

6

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22L0234

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 22L0234-06 File ID: V834690.D

Sampled: 12/01/22 16:46 Prepared: 12/09/22 09:00 Analyzed: 12/09/22 18:50

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BL20554 Sequence: S2L1229 Calibration: SL20002 Instrument: VOA No. 8

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.50	U
75-34-3	1,1-Dichloroethane	1	0.50	U
75-35-4	1,1-Dichloroethylene	1	0.43	J ~~J~~
87-61-6	1,2,3-Trichlorobenzene	1	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	U
106-93-4	1,2-Dibromoethane	1	0.50	U
95-50-1	1,2-Dichlorobenzene	1	0.50	U
107-06-2	1,2-Dichloroethane	1	0.50	U
78-87-5	1,2-Dichloropropane	1	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.50	U
123-91-1	1,4-Dioxane	1	40	U
78-93-3	2-Butanone	1	0.50	U
591-78-6	2-Hexanone	1	0.50	U
108-10-1	4-Methyl-2-pentanone	1	0.50	U
67-64-1	Acetone	1	2.0	U
107-02-8	Acrolein	1	0.50	U
107-13-1	Acrylonitrile	1	0.50	U
71-43-2	Benzene	1	0.50	U
74-97-5	Bromochloromethane	1	0.50	U
75-27-4	Bromodichloromethane	1	0.50	U
75-25-2	Bromoform	1	0.50	U
74-83-9	Bromomethane	1	0.50	U
75-15-0	Carbon disulfide	1	0.50	U
56-23-5	Carbon tetrachloride	1	0.50	UJ ~~U~~
108-90-7	Chlorobenzene	1	0.50	U
75-00-3	Chloroethane	1	0.50	U
67-66-3	Chloroform	1	1.5	
74-87-3	Chloromethane	1	0.50	UJ ~~U~~
156-59-2	cis-1,2-Dichloroethylene	1	0.99	
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U
110-82-7	Cyclohexane	1	0.50	U

MW 7129123

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

MW106-GWS @37'

b

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	22L0234
Client:	Liberty Environmental, Inc			Project:	220192 27-09 40th Ave.
Matrix:	Water	Laboratory ID:	22L0234-06	File ID:	V834690.D
Sampled:	12/01/22 16:46	Prepared:	12/09/22 09:00	Analyzed:	12/09/22 18:50
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BL20554	Sequence:	S2L1229	Calibration:	SL20002 Instrument: VOA No. 8

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
124-48-1	Dibromochloromethane	1	0.50	U
74-95-3	Dibromomethane	1	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.50	U
100-41-4	Ethyl Benzene	1	0.50	U
87-68-3	Hexachlorobutadiene	1	0.50	U
98-82-8	Isopropylbenzene	1	0.50	U
79-20-9	Methyl acetate	1	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U
108-87-2	Methylcyclohexane	1	0.50	U
75-09-2	Methylene chloride	1	2.0	U
104-51-8	n-Butylbenzene	1	0.50	U
103-65-1	n-Propylbenzene	1	0.50	U
95-47-6	o-Xylene	1	0.50	U
179601-23-1	p- & m- Xylenes	1	1.0	U
99-87-6	p-Isopropyltoluene	1	0.50	U
135-98-8	sec-Butylbenzene	1	0.50	U
100-42-5	Styrene	1	0.50	U
75-65-0	tert-Butyl alcohol (TBA)	1	1.3	
98-06-6	tert-Butylbenzene	1	0.50	U
108-88-3	Toluene	1	0.50	U
156-60-5	trans-1,2-Dichloroethylene	1	0.50	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U
110-57-6	trans-1,4-dichloro-2-butene	1	0.50	U
79-01-6	Trichloroethylene	1	2.2	
75-69-4	Trichlorofluoromethane	1	2.1	J
75-01-4	Vinyl Chloride	1	0.50	U
1330-20-7	Xylenes, Total	1	1.5	UJ ~~U~~

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.5	105	69 - 130	
SURR: Toluene-d8	10.0	9.35	93.5	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.1	101	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	315054	5.834	309093	5.829	
ISTD: Chlorobenzene-d5	1221545	8.855	1189191	8.855	
ISTD: 1,2-Dichlorobenzene-d4	498226	11.844	510958	11.838	

* Values outside of QC limits

MW 7/29/23

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

MW106-GWS @37'

6RE

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	22L0234
Client:	Liberty Environmental, Inc			Project:	220192 27-09 40th Ave.
Matrix:	Water	Laboratory ID:	22L0234-06RE1	File ID:	V10C015275.D
Sampled:	12/01/22 16:46	Prepared:	12/12/22 09:00	Analyzed:	12/12/22 16:40
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BL20637	Sequence:	S2L1236	Calibration:	SL20009
Instrument:	VOA No. 10				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
127-18-4	Tetrachloroethylene	10	130	J D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.1	101	69 - 130	
SURR: Toluene-d8	10.0	9.94	99.4	81 - 117	
SURR: p-Bromofluorobenzene	10.0	9.57	95.7	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	104739	5.826	112599	5.829	
ISTD: Chlorobenzene-d5	304779	8.855	312957	8.855	
ISTD: 1,2-Dichlorobenzene-d4	106961	11.836	99639	11.839	

* Values outside of QC limits

MW 712923

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

MW103-GWS @38'

7

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22L0234

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 22L0234-07 File ID: V10C015257.D

Sampled: 12/01/22 21:20 Prepared: 12/09/22 09:00 Analyzed: 12/09/22 18:13

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BL20555 Sequence: S2L1217 Calibration: SL20009 Instrument: VOA No. 10

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.50	U
75-34-3	1,1-Dichloroethane	1	0.50	U
75-35-4	1,1-Dichloroethylene	1	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	U
106-93-4	1,2-Dibromoethane	1	0.50	U
95-50-1	1,2-Dichlorobenzene	1	0.50	U
107-06-2	1,2-Dichloroethane	1	0.50	U
78-87-5	1,2-Dichloropropane	1	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.50	U
123-91-1	1,4-Dioxane	1	40	U
78-93-3	2-Butanone	1	0.50	U
591-78-6	2-Hexanone	1	0.50	U
108-10-1	4-Methyl-2-pentanone	1	0.50	U
67-64-1	Acetone	1	2.0	U
107-02-8	Acrolein	1	0.50	U
107-13-1	Acrylonitrile	1	0.50	U
71-43-2	Benzene	1	0.50	U
74-97-5	Bromochloromethane	1	0.50	U
75-27-4	Bromodichloromethane	1	0.50	U
75-25-2	Bromoform	1	0.50	U
74-83-9	Bromomethane	1	0.50	U
75-15-0	Carbon disulfide	1	0.40	J
56-23-5	Carbon tetrachloride	1	0.50	U
108-90-7	Chlorobenzene	1	0.50	U
75-00-3	Chloroethane	1	0.50	U
67-66-3	Chloroform	1	0.50	U
74-87-3	Chloromethane	1	0.47	J
156-59-2	cis-1,2-Dichloroethylene	1	1.2	
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U
110-82-7	Cyclohexane	1	0.50	U

NW 7129123

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

MW103-GWS @38'

7

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22L0234

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 22L0234-07 File ID: V10C015257.D

Sampled: 12/01/22 21:20 Prepared: 12/09/22 09:00 Analyzed: 12/09/22 18:13

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BL20555 Sequence: S2L1217 Calibration: SL20009 Instrument: VOA No. 10

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
124-48-1	Dibromochloromethane	1	0.50	U
74-95-3	Dibromomethane	1	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.50	U
100-41-4	Ethyl Benzene	1	0.50	U
87-68-3	Hexachlorobutadiene	1	0.50	UJ U
98-82-8	Isopropylbenzene	1	0.50	U
79-20-9	Methyl acetate	1	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U
108-87-2	Methylcyclohexane	1	0.50	U
75-09-2	Methylene chloride	1	2.0	U
104-51-8	n-Butylbenzene	1	0.50	U
103-65-1	n-Propylbenzene	1	0.50	U
95-47-6	o-Xylene	1	0.50	U
179601-23-1	p- & m- Xylenes	1	1.0	U
99-87-6	p-Isopropyltoluene	1	0.50	U
135-98-8	sec-Butylbenzene	1	0.50	U
100-42-5	Styrene	1	0.50	U
75-65-0	tert-Butyl alcohol (TBA)	1	1.0	UJ U
98-06-6	tert-Butylbenzene	1	0.50	U
127-18-4	Tetrachloroethylene	1	30	J
108-88-3	Toluene	1	0.50	U
156-60-5	trans-1,2-Dichloroethylene	1	0.50	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U
110-57-6	trans-1,4-dichloro-2-butene	1	0.50	U
79-01-6	Trichloroethylene	1	1.5	
75-69-4	Trichlorofluoromethane	1	0.41	J J
75-01-4	Vinyl Chloride	1	0.50	U
1330-20-7	Xylenes, Total	1	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	9.62	96.2	69 - 130	
SURR: Toluene-d8	10.0	9.93	99.3	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.2	102	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	110126	5.829	118656	5.826	
ISTD: Chlorobenzene-d5	317136	8.855	333243	8.855	
ISTD: 1,2-Dichlorobenzene-d4	103949	11.836	109381	11.839	

* Values outside of QC limits

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

IW-2 GWS @40'

2

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22L0234

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 22L0234-02 File ID: QBICP2-121322ARE_1-011

Sampled: 11/23/22 17:52 Prepared: 12/08/22 13:58 Analyzed: 12/13/22 14:36

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BL20496 Sequence: S2L1436 Calibration: 12/13/22 1 Instrument: WinLabICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-70-2	Calcium	1.59	1		EPA 6010D
7440-47-3	Chromium	0.466	1		EPA 6010D
7439-95-4	Magnesium	1.02	1		EPA 6010D

MW 7/29/23

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

MW110-GWS @37'

3

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22L0234

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 22L0234-03 File ID: QBICP2-121322ARE_1-023

Sampled: 12/01/22 17:38 Prepared: 12/08/22 14:03 Analyzed: 12/13/22 15:46

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BL20498 Sequence: S2L1437 Calibration: 12/13/22 1 Instrument: WinLabICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-70-2	Calcium (dissolved)	214	1	J	EPA 6010D
7440-47-3	Chromium (dissolved)	0.00556	1	U	EPA 6010D
7439-95-4	Magnesium (dissolved)	102	1		EPA 6010D

NW 7/29/23

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

MW109-GWS @35'

4

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22L0234

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 22L0234-04 File ID: QBICP2-121322ARE_1-024

Sampled: 12/01/22 18:27 Prepared: 12/08/22 14:03 Analyzed: 12/13/22 15:50

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BL20498 Sequence: S2L1437 Calibration: 12/13/22 1 Instrument: WinLabICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-70-2	Calcium (dissolved)	118	1	J	EPA 6010D
7440-47-3	Chromium (dissolved)	0.00556	1	U	EPA 6010D
7439-95-4	Magnesium (dissolved)	22.0	1		EPA 6010D

NW 7/29/23

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

MW108-GWS @36'

5

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22L0234

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 22L0234-05 File ID: QBICP2-121322ARE_1-025

Sampled: 12/01/22 19:40 Prepared: 12/08/22 14:03 Analyzed: 12/13/22 15:53

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BL20498 Sequence: S2L1437 Calibration: 12/13/22 1 Instrument: WinLabICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-70-2	Calcium (dissolved)	134	1	J	EPA 6010D
7440-47-3	Chromium (dissolved)	0.00556	1	U	EPA 6010D
7439-95-4	Magnesium (dissolved)	55.5	1		EPA 6010D

MW 7/24/23

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

MW106-GWS @37'

b

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22L0234

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave,

Matrix: Water Laboratory ID: 22L0234-06 File ID: QBICP2-121322ARE_1-026

Sampled: 12/01/22 16:46 Prepared: 12/08/22 14:03 Analyzed: 12/13/22 15:57

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BL20498 Sequence: S2L1437 Calibration: 12/13/22 1 Instrument: WinLabICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-70-2	Calcium (dissolved)	162	1	J	EPA 6010D
7440-47-3	Chromium (dissolved)	0.0234	1	J	EPA 6010D
7439-95-4	Magnesium (dissolved)	94.4	1		EPA 6010D

MW 7/29/23

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

IW-1 GWS @42'

8

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22L0234

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 22L0234-08 File ID: QBICP2-121322ARE_1-027

Sampled: 12/01/22 13:45 Prepared: 12/08/22 14:03 Analyzed: 12/13/22 16:01

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BL20498 Sequence: S2L1437 Calibration: 12/13/22 1 Instrument: WinLabICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-70-2	Calcium (dissolved)	0.770	1	J	EPA 6010D
7440-47-3	Chromium (dissolved)	3.73	1	J	EPA 6010D
7439-95-4	Magnesium (dissolved)	0.0556	1	U	EPA 6010D

MW 7/29/23

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6020B

IW-2 GWS @40'

2

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22L0234

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 22L0234-02 File ID: QBIMX120822A-019

Sampled: 11/23/22 17:52 Prepared: 12/07/22 13:08 Analyzed: 12/08/22 17:10

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BL20402 Sequence: S2L1202 Calibration: 12/08/22 1 Instrument: DMA 80-02

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	57.4	1		EPA 6020B
7439-89-6	Iron	8820	1		EPA 6020B

MW 712923

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6020B

IW-2 GWS @40'

2

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22L0234

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 22L0234-02RE1 File ID: QBIMX121222B-016

Sampled: 11/23/22 17:52 Prepared: 12/07/22 13:08 Analyzed: 12/12/22 13:54

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BL20402 Sequence: S2L1239 Calibration: 12/12/22 1 Instrument: Nexion2000C

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7439-96-5	Manganese	219	10	Ø	EPA 6020B

nw 7/29/23

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6020B

MW110-GWS @37'

3

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22L0234

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 22L0234-03 File ID: QBIMX121322B-085

Sampled: 12/01/22 17:38 Prepared: 12/09/22 10:34 Analyzed: 12/13/22 18:57

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BL20558 Sequence: S2L1404 Calibration: 12/13/22 1 Instrument: Nexion2000C

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic (dissolved)	1.11	1	U	EPA 6020B
7439-89-6	Iron (dissolved)	87.3	1		EPA 6020B
7439-96-5	Manganese (dissolved)	35.9	1		EPA 6020B

MW 7/29/23

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6020B

MW109-GWS @35'

4

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22L0234

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 22L0234-04 File ID: QBIMX121322B-086

Sampled: 12/01/22 18:27 Prepared: 12/09/22 10:34 Analyzed: 12/13/22 19:01

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BL20558 Sequence: S2L1404 Calibration: 12/13/22 1 Instrument: Nexion2000C

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic (dissolved)	2.04	1		EPA 6020B
7439-89-6	Iron (dissolved)	171	1		EPA 6020B
7439-96-5	Manganese (dissolved)	107	1		EPA 6020B

NW 7/29/23

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6020B

MW108-GWS @36'

5

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22L0234

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 22L0234-05 File ID: QBIMX121322B-087

Sampled: 12/01/22 19:40 Prepared: 12/09/22 10:34 Analyzed: 12/13/22 19:04

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BL20558 Sequence: S2L1404 Calibration: 12/13/22 1 Instrument: Nexion2000C

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic (dissolved)	1.11	1	U	EPA 6020B
7439-89-6	Iron (dissolved)	207	1		EPA 6020B
7439-96-5	Manganese (dissolved)	19.7	1		EPA 6020B

MW 7/12/23

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6020B

MW106-GWS @37'

6

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22L0234

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 22L0234-06 File ID: QBIMX121322B-093

Sampled: 12/01/22 16:46 Prepared: 12/09/22 10:34 Analyzed: 12/13/22 19:25

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BL20558 Sequence: S2L1404 Calibration: 12/13/22 1 Instrument: Nexion2000C

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic (dissolved)	2.27	1		EPA 6020B

MW 7/29/23

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6020B

MW106-GWS @37'

6

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22L0234

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 22L0234-06RE1 File ID: QBIMX121422B-017

Sampled: 12/01/22 16:46 Prepared: 12/09/22 10:34 Analyzed: 12/14/22 13:48

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BL20558 Sequence: S2L1426 Calibration: 12/14/22 1 Instrument: Nexion2000C

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7439-89-6	Iron (dissolved)	13700	10	D	EPA 6020B
7439-96-5	Manganese (dissolved)	988	10	D	EPA 6020B

MW 7/29/23

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6020B

IW-1 GWS @42'

8

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22L0234

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 22L0234-08 File ID: QBIMX121322B-094

Sampled: 12/01/22 13:45 Prepared: 12/09/22 10:34 Analyzed: 12/13/22 19:28

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BL20558 Sequence: S2L1404 Calibration: 12/13/22 1 Instrument: Nexion2000C

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic (dissolved)	670	1		EPA 6020B
7439-89-6	Iron (dissolved)	226	1		EPA 6020B

MW 7/29/23

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6020B

IW-1 GWS @42'

8

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22L0234

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 22L0234-08RE1 File ID: QBIMX121422B-018

Sampled: 12/01/22 13:45 Prepared: 12/09/22 10:34 Analyzed: 12/14/22 13:52

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BL20558 Sequence: S2L1426 Calibration: 12/14/22 1 Instrument: Nexion2000C

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7439-96-5	Manganese (dissolved)	975	20	D	EPA 6020B

MW 7/29/23

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 300.0

IW-1 GWS @42'

1

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22L0234

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 22L0234-01 File ID: QBIC2-120622A-22L0234-01_Int

Sampled: 11/23/22 17:26 Prepared: 12/07/22 02:05 Analyzed: 12/07/22 02:05

Solids: 0.00 Preparation: EPA 300 Initial/Final: 5.5 mL / 5.5 mL

Batch: BL20422 Sequence: Calibration: 12/07/22 0 Instrument: CD

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
16887-00-6	Chloride	58.1	50	D	EPA 300.0
14797-55-8	Nitrate as N	8.10	50	J D	EPA 300.0
14808-79-8	Sulfate	413	50	D	EPA 300.0

MW 1129123

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 300.0

IW-2 GWS @40'

2

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22L0234

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 22L0234-02 File ID: QBIC2-120622A-22L0234-02_Int

Sampled: 11/23/22 17:52 Prepared: 12/07/22 02:14 Analyzed: 12/07/22 02:14

Solids: 0.00 Preparation: EPA 300 Initial/Final: 5.5 mL / 5.5 mL

Batch: BL20422 Sequence: Calibration: 12/07/22 0 Instrument: CD

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
16887-00-6	Chloride	29.7	50	D	EPA 300.0
14797-55-8	Nitrate as N	5.87	50	J D	EPA 300.0
14808-79-8	Sulfate	23000	200	D	EPA 300.0

NW 7/29/23

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 300.0

MW110-GWS @37'

3

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22L0234

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 22L0234-03 File ID: QBIC2-120622A-22L0234-03_Int

Sampled: 12/01/22 17:38 Prepared: 12/07/22 02:44 Analyzed: 12/07/22 02:44

Solids: 0.00 Preparation: EPA 300 Initial/Final: 5.5 mL / 5.5 mL

Batch: BL20422 Sequence: Calibration: 12/07/22 0 Instrument: CD

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
16887-00-6	Chloride	327	10	D	EPA 300.0
14797-55-8	Nitrate as N	27.7	10	J D	EPA 300.0
14808-79-8	Sulfate	176	10	D	EPA 300.0

MW 7/29/23

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 300.0

MW109-GWS @35'

4

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22L0234

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 22L0234-04 File ID: QBIC2-120622A-22L0234-04_Int

Sampled: 12/01/22 18:27 Prepared: 12/07/22 02:54 Analyzed: 12/07/22 02:54

Solids: 0.00 Preparation: EPA 300 Initial/Final: 5.5 mL / 5.5 mL

Batch: BL20422 Sequence: Calibration: 12/07/22 0 Instrument: CD

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
16887-00-6	Chloride	136	10	D	EPA 300.0
14797-55-8	Nitrate as N	1.20	1	J	EPA 300.0
14808-79-8	Sulfate	119	10	D	EPA 300.0

MW 7/29/23

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 300.0

MW108-GWS @36'

5

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22L0234

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 22L0234-05 File ID: QBIC2-120622A-22L0234-05_Int

Sampled: 12/01/22 19:40 Prepared: 12/07/22 03:04 Analyzed: 12/07/22 03:04

Solids: 0.00 Preparation: EPA 300 Initial/Final: 5.5 mL / 5.5 mL

Batch: BL20422 Sequence: Calibration: 12/07/22 0 Instrument: CD

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
16887-00-6	Chloride	164	10	D	EPA 300.0
14797-55-8	Nitrate as N	30.7	10	J D	EPA 300.0
14808-79-8	Sulfate	114	10	D	EPA 300.0

MW 7/29/23

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 300.0

MW106-GWS @37'

6

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22L0234

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 22L0234-06 File ID: QBIC2-120622A-22L0234-06_Int

Sampled: 12/01/22 16:46 Prepared: 12/07/22 03:14 Analyzed: 12/07/22 03:14

Solids: 0.00 Preparation: EPA 300 Initial/Final: 5.5 mL / 5.5 mL

Batch: BL20422 Sequence: Calibration: 12/07/22 0 Instrument: CD

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
16887-00-6	Chloride	105	10	D	EPA 300.0
14797-55-8	Nitrate as N	9.65	10	J D	EPA 300.0
14808-79-8	Sulfate	179	10	D	EPA 300.0

mw-7/12 9/23

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2320B

MW110-GWS @37'

3

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22L0234

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 22L0234-03 File ID:

Sampled: 12/01/22 17:38 Prepared: 12/12/22 09:25 Analyzed: 12/12/22 14:05

Solids: 0.00 Preparation: Analysis Preparation Initial/Final: 50 mL / 50 mL

Batch: BL20634 Sequence: Calibration: 12/12/22 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
	Alkalinity, total	400	1		SM 2320B

MW 12/9/23

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2320B

MW109-GWS @35'

4

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22L0234

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 22L0234-04 File ID:

Sampled: 12/01/22 18:27 Prepared: 12/12/22 09:25 Analyzed: 12/12/22 14:05

Solids: 0.00 Preparation: Analysis Preparation Initial/Final: 50 mL / 50 mL

Batch: BL20634 Sequence: Calibration: 12/12/22 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
	Alkalinity, total	200	1		SM 2320B

MW 7/29/23

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2320B

MW108-GWS @36'

5

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22L0234

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 22L0234-05 File ID:

Sampled: 12/01/22 19:40 Prepared: 12/12/22 09:25 Analyzed: 12/12/22 14:05

Solids: 0.00 Preparation: Analysis Preparation Initial/Final: 50 mL / 50 mL

Batch: BL20634 Sequence: Calibration: 12/12/22 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
	Alkalinity, total	290	1		SM 2320B

MW 7/29/23

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2320B

MW106-GWS @37'

6

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 22L0234

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 22L0234-06 File ID:

Sampled: 12/01/22 16:46 Prepared: 12/12/22 09:25 Analyzed: 12/12/22 14:05

Solids: 0.00 Preparation: Analysis Preparation Initial/Final: 50 mL / 50 mL

Batch: BL20634 Sequence: Calibration: 12/12/22 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
	Alkalinity, total	1000	1		SM 2320B

NW 7/29/23

ENVIRONMENTAL
Data Services, Inc.

DATA USABILITY SUMMARY REPORT
27-09 40th AVENUE, LONG ISLAND CITY, NEW YORK

Client: Liberty Environmental, Reading, Pennsylvania
SDG: 23B0840
Laboratory: York Analytical Laboratories, Stratford, Connecticut
Site: 27-09 40th Avenue, Long Island City, New York
Date: July 29, 2023

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	MW-108	23B0840-01	Water
1MS*	MW-108MS	23B0840-01MS	Water
1DUP*	MW-108DUP	23B0840-01DUP	Water
2	MW-107	23B0840-02	Water
3	MW-105	23B0840-03	Water
4	MW-106	23B0840-04	Water
5	IW-1	23B0840-05	Water

* - Nitrate & Sulfate only

A Data Usability Summary Review was performed on the analytical data for five water samples collected on February 14, 2023 by Liberty at the 40th Avenue site in Long Island City, New York. The samples were analyzed under Environmental Protection Agency (USEPA) "Test Methods for the Evaluation of Solid Waste, USEPA SW-846, Third Edition, September 1986, with revisions", the "Methods for Chemical Analysis of Water and Wastes" and the "Standard Methods for Examination of Water and Wastewater."

Specific method references are as follows:

Analysis	*Method References*
VOC	USEPA SW-846 Method 8260C
Metals (T)	USEPA SW-846 Method 6010D
Metals (T)	USEPA SW-846 Method 6020B
Mercury (T)	USEPA SW-846 Method 7470A
Anions	USEPA Method 300.0
Alkalinity	Standard Method SM2320B

The data have been validated according to the protocols and quality control (QC) requirements of the analytical methods and the USEPA Region II Data Review Standard Operating Procedures (SOPs) as follows:

- SOP Number HW-33A, Revision 1, September 2016: Low/Medium Volatile Data Validation;
- SOP Number HW-3a, Revision 1, September 2016: ICP-AES Data Validation;
- SOP Number HW-3b, Revision 1, September 2016: ICP-MS Data Validation;

- SOP Number HW-3c, Revision 1, September 2016: Mercury and Cyanide Data Validation;
- and the reviewer's professional judgment.

The following items/criteria were reviewed for this report:

Organics

- Data Completeness
- Holding times and sample preservation
- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample (LCS) recoveries
- Method blank and field blank contamination
- Gas Chromatography (GC)/Mass Spectroscopy (MS) tuning
- Initial and continuing calibration summaries
- Compound Quantitation
- Internal standard area and retention time summary forms
- Tentatively Identified Compounds (TICs)
- Field Duplicate sample precision

Inorganics

- Holding times and sample preservation
- Inductively Coupled Plasma/Mass Spectrometry (ICP/MS) Tuning
- Initial and continuing calibration verifications
- Method blank and field QC blank contamination
- ICP Interference Check Sample
- Laboratory Control Sample (LCS) recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Duplicate Sample Analysis
- ICP Serial Dilution
- Compound Quantitation
- Field Duplicate sample precision

Data Usability Assessment

There were no rejections of data.

The data are acceptable for the intended purposes as qualified for the deficiencies detailed in this report.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedances of QC criteria.

Data Completeness

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

Volatile Organic Compounds (VOCs)

Holding Times

- All samples were analyzed within 14 days for preserved water samples.

GC/MS Tuning

- All criteria were met.

Initial Calibration

- The initial calibrations exhibited acceptable %RSD and/or correlation coefficients and mean RRF values.

Continuing Calibration

- The following table presents compounds that exceeded percent difference (%D) and/or RRF values <0.05 (0.01 for poor performers) in the continuing calibration (CCAL). A low RRF indicates poor instrument sensitivity for these compounds. Positive results for these compounds in the affected samples are considered estimated and qualified (J). Non-detect results for these compounds in the affected samples are rejected (R) and are unusable for project objectives. A high %D may indicate a potential high or low bias. All results for these compounds in affected samples are considered estimated and qualified (J/UJ).

CCAL Date	Compound	%D/RRF	Qualifier	Affected Samples
02/25/23 (1428)	1,4-Dioxane	20.6%	UJ	1-5
	Acrolein	51.2%		
	tert-Butyl Alcohol	27.2%	J/UJ	1-5
	Tetrachloroethylene	50.0%	None	See LCS
02/27/23 (1015)	Tetrachloroethylene	48.5%	None	See LCS

Method Blank

- The following table lists method blanks with contamination and the samples associated with the blanks that had results qualified as a consequence of the blank contamination. Detected sample concentrations of methylene chloride, 2-butanone, toluene or acetone (common

laboratory contaminants) less than ten times (10x) the highest associated blank (after taking sample dilution levels, percent moisture and sample volume into account) are negated and qualified with a (U). For all other compounds, an action level of five times (5x) the highest associated blank concentration is used.

Sample ID	Compound	Conc. ug/L	Qualifier	Affected Samples
BB31586-BLK1	Methylene Chloride	7.3	None	All Associated ND
BB31642-BLK1	p-Isopropyltoluene	0.48		

Field Blank

- Field QC samples were not collected.

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate percent recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- MS/MSD samples were not analyzed.

Laboratory Control Samples

- The following table presents LCS percent recoveries (%R) outside the QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J). Results are valid and usable, however possibly biased. For a severely low %R (<10%), non-detect results are rejected (R) and are unusable for project objectives.

LCS ID	Compound	%R	Qualifier	Affected Samples
BB31586-BS1	Acrolein	164%	None	All Associated ND
	Methylene Chloride	150%		
	Tetrachloroethylene	50.0%	J	1, 5
BB31642-BS1	Tetrachloroethylene	42.6%	J	2RE-4RE

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Compound Quantitation

- EDS samples 2, 3, and 4 were analyzed at a 25X and/or 50X dilution for tetrachloroethylene due to high concentrations. The reporting limits were adjusted accordingly. No action was required.

Tentatively Identified Compounds (TICs)

- TICs were not reported.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

Metals (6010/6020) & Mercury

Holding Times

- All samples were prepared and analyzed within 28 days for mercury and 180 days for all other metals.

ICP/MS Tuning

- All criteria were met.

Initial Calibration Verification

- All initial calibration criteria were met.

Continuing Calibration Verification

- All continuing calibration criteria were met.

Method Blank

- The following table lists method blanks with contamination and the samples associated with the blanks that had results qualified as a consequence of the blank contamination. Detected sample concentrations less than ten times (10x) the highest associated blank (after taking sample dilution levels, percent moisture and sample volume into account) are negated and qualified with a (U).

6010D				
Sample ID	Compound	Conc. mg/L	Qualifier	Affected Samples
BB31413-BLK1	Calcium	0.149	None	All Associated ND

Field Blank

- Field QC samples were not collected.

ICP Interference Check Sample

- The ICP interference check sample exhibited acceptable percent recoveries (%R).

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- MS/MSD samples were not analyzed.

Laboratory Control Samples

- The LCS sample exhibited acceptable percent recoveries (%R).

ICP Serial Dilution

- ICP serial dilution samples were not analyzed.

Compound Quantitation

- Several samples were analyzed at various dilutions due to high concentrations of target compounds. The reporting limits were adjusted accordingly. No action was required.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

Anions & Alkalinity

Holding Times

- All samples were prepared and analyzed the recommended holding times for each method except for the following.

Nitrate				
EDS Sample	Date Collected	Date Analyzed	# of Days	Qualifier
All Samples	02/14/23	02/17/23	3	J

Initial Calibration Verification

- All initial calibration criteria were met.

Continuing Calibration Verification

- All continuing calibration criteria were met.

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC samples were not collected.

Matrix Spike/Matrix Spike Duplicate (MS/DUP) Recoveries

- The following table presents MS/MSD samples that exhibited percent recoveries (%R) outside the QC limits and/or relative percent differences (RPD) above QC limits. A low %R may indicate a potential low bias while a high %R may indicate a potential high bias. For a low %R, positive results are considered estimated and qualified (J) while non-detects are estimated and qualified (UJ). For a high %R, positive results are considered estimated and qualified (J).

MS/MSD Sample ID	Compound	MS %R/RPD	Qualifier	Affected samples
1	Sulfate	81.5%/OK	J	1

Duplicate Sample Analysis

- Duplicate samples were not analyzed.

Laboratory Control Samples

- The LCS samples exhibited acceptable percent recoveries (%R).

Compound Quantitation

- Several samples were analyzed at various dilutions due to high concentrations of target compounds. The reporting limits were adjusted accordingly. No action was required.

Field Duplicate Sample Precision

- Field duplicate samples were not collected.

Please contact the undersigned at (561) 475-2000 if you have any questions or need further information.

Signed: Nancy Weaver Dated: 8/1/23

Nancy Weaver
Senior Chemist

Data Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The analyte is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.
J+	The result is an estimated quantity, but the result may be biased high.
J-	The result is an estimated quantity, but the result may be biased low.
NJ	The analysis has been "tentatively identified" or "presumptively" as present and the associated numerical value is the estimated concentration in the samples.
UJ	The analyte was analyzed for but was not detected. The reported quantitation limits is approximate and may be inaccurate or imprecise.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting QC criteria. The analyte may or may not be present in the samples.

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

MW-108

1

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23B0840

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 23B0840-01 File ID: V10C016531.D

Sampled: 02/14/23 09:28 Prepared: 02/25/23 07:00 Analyzed: 02/25/23 17:52

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BB31586 Sequence: S3B2607 Calibration: SC30001 Instrument: VOA No. 10

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.50	U
75-34-3	1,1-Dichloroethane	1	0.50	U
75-35-4	1,1-Dichloroethylene	1	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	U
106-93-4	1,2-Dibromoethane	1	0.50	U
95-50-1	1,2-Dichlorobenzene	1	0.50	U
107-06-2	1,2-Dichloroethane	1	0.50	U
78-87-5	1,2-Dichloropropane	1	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.50	U
123-91-1	1,4-Dioxane	1	40	~~U~~ UJ
78-93-3	2-Butanone	1	0.83	
591-78-6	2-Hexanone	1	0.50	U
108-10-1	4-Methyl-2-pentanone	1	0.68	
67-64-1	Acetone	1	3.9	
107-02-8	Acrolein	1	0.50	~~U~~ UJ
107-13-1	Acrylonitrile	1	0.50	U
71-43-2	Benzene	1	0.50	U
74-97-5	Bromochloromethane	1	0.50	U
75-27-4	Bromodichloromethane	1	1.5	
75-25-2	Bromoform	1	0.50	
74-83-9	Bromomethane	1	0.50	U
75-15-0	Carbon disulfide	1	0.50	U
56-23-5	Carbon tetrachloride	1	0.50	U
108-90-7	Chlorobenzene	1	0.50	U
75-00-3	Chloroethane	1	0.50	U
67-66-3	Chloroform	1	2.4	
74-87-3	Chloromethane	1	0.50	U
156-59-2	cis-1,2-Dichloroethylene	1	0.50	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U
110-82-7	Cyclohexane	1	0.50	U

NW 7129123

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

MW-108

1

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23B0840
Client:	Liberty Environmental, Inc			Project:	220192 27-09 40th Ave.
Matrix:	Water	Laboratory ID:	23B0840-01	File ID:	V10C016531.D
Sampled:	02/14/23 09:28	Prepared:	02/25/23 07:00	Analyzed:	02/25/23 17:52
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BB31586	Sequence:	S3B2607	Calibration:	SC30001
Instrument:	VOA No. 10				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
124-48-1	Dibromochloromethane	1	1.5	
74-95-3	Dibromomethane	1	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.50	U
100-41-4	Ethyl Benzene	1	0.50	U
87-68-3	Hexachlorobutadiene	1	0.50	U
98-82-8	Isopropylbenzene	1	0.50	U
79-20-9	Methyl acetate	1	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U
108-87-2	Methylcyclohexane	1	0.50	U
75-09-2	Methylene chloride	1	2.0	U
104-51-8	n-Butylbenzene	1	0.50	U
103-65-1	n-Propylbenzene	1	0.50	U
95-47-6	o-Xylene	1	0.50	U
179601-23-1	p- & m- Xylenes	1	1.0	U
99-87-6	p-Isopropyltoluene	1	0.50	U
135-98-8	sec-Butylbenzene	1	0.50	U
100-42-5	Styrene	1	0.50	U
75-65-0	tert-Butyl alcohol (TBA)	1	4.4	J
98-06-6	tert-Butylbenzene	1	0.50	U
127-18-4	Tetrachloroethylene	1	3.0	J
108-88-3	Toluene	1	0.50	U
156-60-5	trans-1,2-Dichloroethylene	1	0.50	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U
110-57-6	trans-1,4-dichloro-2-butene	1	0.50	U
79-01-6	Trichloroethylene	1	0.50	U
75-69-4	Trichlorofluoromethane	1	0.50	U
75-01-4	Vinyl Chloride	1	0.50	U
1330-20-7	Xylenes, Total	1	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	9.99	99.9	69 - 130	
SURR: Toluene-d8	10.0	10.0	100	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.1	101	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	141701	5.829	157811	5.826	
ISTD: Chlorobenzene-d5	431566	8.852	473269	8.855	
ISTD: 1,2-Dichlorobenzene-d4	174164	11.839	187090	11.839	

* Values outside of QC limits

MW 7129123

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

MW-107

2

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23B0840

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 23B0840-02 File ID: V10C016532.D

Sampled: 02/14/23 12:08 Prepared: 02/25/23 07:00 Analyzed: 02/25/23 18:19

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BB31586 Sequence: S3B2607 Calibration: SC30001 Instrument: VOA No. 10

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.50	U
75-34-3	1,1-Dichloroethane	1	0.50	U
75-35-4	1,1-Dichloroethylene	1	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	U
106-93-4	1,2-Dibromoethane	1	0.50	U
95-50-1	1,2-Dichlorobenzene	1	0.50	U
107-06-2	1,2-Dichloroethane	1	0.50	U
78-87-5	1,2-Dichloropropane	1	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.50	U
123-91-1	1,4-Dioxane	1	40	U UJ
78-93-3	2-Butanone	1	0.50	U
591-78-6	2-Hexanone	1	0.50	U
108-10-1	4-Methyl-2-pentanone	1	0.50	U
67-64-1	Acetone	1	1.8	J
107-02-8	Acrolein	1	0.50	U UJ
107-13-1	Acrylonitrile	1	0.50	U
71-43-2	Benzene	1	0.50	U
74-97-5	Bromochloromethane	1	0.50	U
75-27-4	Bromodichloromethane	1	0.50	U
75-25-2	Bromoform	1	0.50	U
74-83-9	Bromomethane	1	0.50	U
75-15-0	Carbon disulfide	1	0.50	U
56-23-5	Carbon tetrachloride	1	0.50	U
108-90-7	Chlorobenzene	1	0.50	U
75-00-3	Chloroethane	1	0.50	U
67-66-3	Chloroform	1	0.43	J
74-87-3	Chloromethane	1	0.50	U
156-59-2	cis-1,2-Dichloroethylene	1	0.35	J
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U
110-82-7	Cyclohexane	1	0.50	U

MW 7/29/23

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

MW-107

2

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23B0840

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 23B0840-02 File ID: V10C016532.D

Sampled: 02/14/23 12:08 Prepared: 02/25/23 07:00 Analyzed: 02/25/23 18:19

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BB31586 Sequence: S3B2607 Calibration: SC30001 Instrument: VOA No. 10

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
124-48-1	Dibromochloromethane	1	0.50	U
74-95-3	Dibromomethane	1	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.50	U
100-41-4	Ethyl Benzene	1	0.50	U
87-68-3	Hexachlorobutadiene	1	0.50	U
98-82-8	Isopropylbenzene	1	0.50	U
79-20-9	Methyl acetate	1	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U
108-87-2	Methylcyclohexane	1	0.50	U
75-09-2	Methylene chloride	1	2.0	U
104-51-8	n-Butylbenzene	1	0.50	U
103-65-1	n-Propylbenzene	1	0.50	U
95-47-6	o-Xylene	1	0.50	U
179601-23-1	p- & m- Xylenes	1	1.0	U
99-87-6	p-Isopropyltoluene	1	0.50	U
135-98-8	sec-Butylbenzene	1	0.50	U
100-42-5	Styrene	1	0.50	U
75-65-0	tert-Butyl alcohol (TBA)	1	1.0	U UJ
98-06-6	tert-Butylbenzene	1	0.50	U
108-88-3	Toluene	1	0.50	U
156-60-5	trans-1,2-Dichloroethylene	1	0.50	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U
110-57-6	trans-1,4-dichloro-2-butene	1	0.50	U
79-01-6	Trichloroethylene	1	1.6	
75-69-4	Trichlorofluoromethane	1	0.50	U
75-01-4	Vinyl Chloride	1	0.50	U
1330-20-7	Xylenes, Total	1	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.0	100	69 - 130	
SURR: Toluene-d8	10.0	10.1	101	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.5	105	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	150231	5.829	157811	5.826	
ISTD: Chlorobenzene-d5	457824	8.852	473269	8.855	
ISTD: 1,2-Dichlorobenzene-d4	180090	11.839	187090	11.839	

* Values outside of QC limits

MW 7/29/23

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

MW-107

2RE

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23B0840
Client:	Liberty Environmental, Inc			Project:	220192 27-09 40th Ave.
Matrix:	Water	Laboratory ID:	23B0840-02RE1	File ID:	V10C016575.D
Sampled:	02/14/23 12:08	Prepared:	02/27/23 08:00	Analyzed:	02/27/23 13:34
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BB31642	Sequence:	S3B2732	Calibration:	SC30001
Instrument:	VOA No. 10				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
127-18-4	Tetrachloroethylene	50	110	J D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	10.1	101	69 - 130	D
SURR: Toluene-d8	10.0	9.96	99.6	81 - 117	D
SURR: p-Bromofluorobenzene	10.0	10.4	104	79 - 122	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	159716	5.826	166525	5.826	
ISTD: Chlorobenzene-d5	498538	8.855	505760	8.855	
ISTD: 1,2-Dichlorobenzene-d4	199290	11.839	199342	11.839	

* Values outside of QC limits

MJ 7/29/23

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

MW-105

3

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23B0840
Client:	Liberty Environmental, Inc			Project:	220192 27-09 40th Ave.
Matrix:	Water	Laboratory ID:	23B0840-03	File ID:	V10C016533.D
Sampled:	02/14/23 11:29	Prepared:	02/25/23 07:00	Analyzed:	02/25/23 18:46
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BB31586	Sequence:	S3B2607	Calibration:	SC30001
Instrument:	VOA No. 10				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.50	U
75-34-3	1,1-Dichloroethane	1	0.50	U
75-35-4	1,1-Dichloroethylene	1	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	U
106-93-4	1,2-Dibromoethane	1	0.50	U
95-50-1	1,2-Dichlorobenzene	1	0.50	U
107-06-2	1,2-Dichloroethane	1	0.50	U
78-87-5	1,2-Dichloropropane	1	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.50	U
123-91-1	1,4-Dioxane	1	40	U UJ
78-93-3	2-Butanone	1	0.50	U
591-78-6	2-Hexanone	1	0.50	U
108-10-1	4-Methyl-2-pentanone	1	0.50	U
67-64-1	Acetone	1	2.2	
107-02-8	Acrolein	1	0.50	U UJ
107-13-1	Acrylonitrile	1	0.50	U
71-43-2	Benzene	1	0.50	U
74-97-5	Bromochloromethane	1	0.50	U
75-27-4	Bromodichloromethane	1	0.50	U
75-25-2	Bromoform	1	0.50	U
74-83-9	Bromomethane	1	0.50	U
75-15-0	Carbon disulfide	1	0.50	U
56-23-5	Carbon tetrachloride	1	0.50	U
108-90-7	Chlorobenzene	1	0.50	U
75-00-3	Chloroethane	1	0.50	U
67-66-3	Chloroform	1	0.79	
74-87-3	Chloromethane	1	0.50	U
156-59-2	cis-1,2-Dichloroethylene	1	1.4	
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U
110-82-7	Cyclohexane	1	0.50	U

MW H29123

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

MW-105

3

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23B0840
Client:	Liberty Environmental, Inc			Project:	220192 27-09 40th Ave.
Matrix:	Water	Laboratory ID:	23B0840-03	File ID:	V10C016533.D
Sampled:	02/14/23 11:29	Prepared:	02/25/23 07:00	Analyzed:	02/25/23 18:46
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BB31586	Sequence:	S3B2607	Calibration:	SC30001
Instrument:	VOA No. 10				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
124-48-1	Dibromochloromethane	1	0.50	U
74-95-3	Dibromomethane	1	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.50	U
100-41-4	Ethyl Benzene	1	0.50	U
87-68-3	Hexachlorobutadiene	1	0.50	U
98-82-8	Isopropylbenzene	1	0.50	U
79-20-9	Methyl acetate	1	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U
108-87-2	Methylcyclohexane	1	0.50	U
75-09-2	Methylene chloride	1	2.0	U
104-51-8	n-Butylbenzene	1	0.50	U
103-65-1	n-Propylbenzene	1	0.50	U
95-47-6	o-Xylene	1	0.50	U
179601-23-1	p- & m- Xylenes	1	1.0	U
99-87-6	p-Isopropyltoluene	1	0.50	U
135-98-8	sec-Butylbenzene	1	0.50	U
100-42-5	Styrene	1	0.50	U
75-65-0	tert-Butyl alcohol (TBA)	1	1.0	U UJ
98-06-6	tert-Butylbenzene	1	0.50	U
108-88-3	Toluene	1	0.50	U
156-60-5	trans-1,2-Dichloroethylene	1	0.50	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U
110-57-6	trans-1,4-dichloro-2-butene	1	0.50	U
79-01-6	Trichloroethylene	1	2.2	
75-69-4	Trichlorofluoromethane	1	0.38	J
75-01-4	Vinyl Chloride	1	0.50	U
1330-20-7	Xylenes, Total	1	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	9.78	97.8	69 - 130	
SURR: Toluene-d8	10.0	10.0	100	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.4	104	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	147242	5.826	157811	5.826	
ISTD: Chlorobenzene-d5	455207	8.855	473269	8.855	
ISTD: 1,2-Dichlorobenzene-d4	177644	11.839	187090	11.839	

* Values outside of QC limits

MW 7/29/23

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

MW-105

3RE

Laboratory:	York Analytical Laboratories, Inc. - Stratford		SDG:	23B0840	
Client:	Liberty Environmental, Inc		Project:	220192 27-09 40th Ave.	
Matrix:	Water	Laboratory ID:	23B0840-03RE1	File ID:	V10C016576.D
Sampled:	02/14/23 11:29	Prepared:	02/27/23 08:00	Analyzed:	02/27/23 14:01
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BB31642	Sequence:	S3B2732	Calibration:	SC30001
Instrument:	VOA No. 10				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
127-18-4	Tetrachloroethylene	50	68	J D

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	9.96	99.6	69 - 130	D
SURR: Toluene-d8	10.0	10.2	102	81 - 117	D
SURR: p-Bromofluorobenzene	10.0	10.5	105	79 - 122	D

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	158600	5.826	166525	5.826	
ISTD: Chlorobenzene-d5	492833	8.855	505760	8.855	
ISTD: 1,2-Dichlorobenzene-d4	193057	11.839	199342	11.839	

* Values outside of QC limits

MW 7/29/23

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

MW-106

4

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23B0840
Client:	Liberty Environmental, Inc			Project:	220192 27-09 40th Ave.
Matrix:	Water	Laboratory ID:	23B0840-04	File ID:	V10C016534.D
Sampled:	02/14/23 13:30	Prepared:	02/25/23 07:00	Analyzed:	02/25/23 19:13
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BB31586	Sequence:	S3B2607	Calibration:	SC30001
Instrument:	VOA No. 10				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.50	U
75-34-3	1,1-Dichloroethane	1	0.50	U
75-35-4	1,1-Dichloroethylene	1	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	U
106-93-4	1,2-Dibromoethane	1	0.50	U
95-50-1	1,2-Dichlorobenzene	1	0.50	U
107-06-2	1,2-Dichloroethane	1	0.50	U
78-87-5	1,2-Dichloropropane	1	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.50	U
123-91-1	1,4-Dioxane	1	40	~~U~~ UJ
78-93-3	2-Butanone	1	0.50	U
591-78-6	2-Hexanone	1	0.50	U
108-10-1	4-Methyl-2-pentanone	1	0.50	U
67-64-1	Acetone	1	2.6	
107-02-8	Acrolein	1	0.50	~~U~~ UJ
107-13-1	Acrylonitrile	1	0.50	U
71-43-2	Benzene	1	0.50	U
74-97-5	Bromochloromethane	1	0.50	U
75-27-4	Bromodichloromethane	1	0.50	U
75-25-2	Bromoform	1	0.50	U
74-83-9	Bromomethane	1	0.50	U
75-15-0	Carbon disulfide	1	0.50	U
56-23-5	Carbon tetrachloride	1	0.50	U
108-90-7	Chlorobenzene	1	0.50	U
75-00-3	Chloroethane	1	0.50	U
67-66-3	Chloroform	1	2.8	
74-87-3	Chloromethane	1	0.50	U
156-59-2	cis-1,2-Dichloroethylene	1	0.41	J
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U
110-82-7	Cyclohexane	1	0.50	U

MW 7/29/23

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

MW-106

4

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23B0840

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 23B0840-04 File ID: V10C016534.D

Sampled: 02/14/23 13:30 Prepared: 02/25/23 07:00 Analyzed: 02/25/23 19:13

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BB31586 Sequence: S3B2607 Calibration: SC30001 Instrument: VOA No. 10

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
124-48-1	Dibromochloromethane	1	0.50	U
74-95-3	Dibromomethane	1	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.50	U
100-41-4	Ethyl Benzene	1	0.50	U
87-68-3	Hexachlorobutadiene	1	0.50	U
98-82-8	Isopropylbenzene	1	0.50	U
79-20-9	Methyl acetate	1	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U
108-87-2	Methylcyclohexane	1	0.50	U
75-09-2	Methylene chloride	1	2.0	U
104-51-8	n-Butylbenzene	1	0.50	U
103-65-1	n-Propylbenzene	1	0.50	U
95-47-6	o-Xylene	1	0.50	U
179601-23-1	p- & m- Xylenes	1	1.0	U
99-87-6	p-Isopropyltoluene	1	0.50	U
135-98-8	sec-Butylbenzene	1	0.50	U
100-42-5	Styrene	1	0.50	U
75-65-0	tert-Butyl alcohol (TBA)	1	1.5	J
98-06-6	tert-Butylbenzene	1	0.50	U
108-88-3	Toluene	1	0.50	U
156-60-5	trans-1,2-Dichloroethylene	1	0.50	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U
110-57-6	trans-1,4-dichloro-2-butene	1	0.50	U
79-01-6	Trichloroethylene	1	1.4	
75-69-4	Trichlorofluoromethane	1	0.85	
75-01-4	Vinyl Chloride	1	0.50	U
1330-20-7	Xylenes, Total	1	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	9.65	96.5	69 - 130	
SURR: Toluene-d8	10.0	10.1	101	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.4	104	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	147431	5.829	157811	5.826	
ISTD: Chlorobenzene-d5	453682	8.852	473269	8.855	
ISTD: 1,2-Dichlorobenzene-d4	177937	11.839	187090	11.839	

* Values outside of QC limits

NW 7/29/23

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

MW-106

4RE

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23B0840
Client:	Liberty Environmental, Inc			Project:	220192 27-09 40th Ave.
Matrix:	Water	Laboratory ID:	23B0840-04RE1	File ID:	V10C016577.D
Sampled:	02/14/23 13:30	Prepared:	02/27/23 08:00	Analyzed:	02/27/23 14:28
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BB31642	Sequence:	S3B2732	Calibration:	SC30001
Instrument:	VOA No. 10				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
127-18-4	Tetrachloroethylene	25	66	J ~~D~~

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	9.82	98.2	69 - 130	~~D~~
SURR: Toluene-d8	10.0	10.1	101	81 - 117	~~D~~
SURR: p-Bromofluorobenzene	10.0	10.3	103	79 - 122	~~D~~

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	159395	5.829	166525	5.826	
ISTD: Chlorobenzene-d5	488240	8.855	505760	8.855	
ISTD: 1,2-Dichlorobenzene-d4	193895	11.839	199342	11.839	

* Values outside of QC limits

MW 7/29/23

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

IW-1

5

Laboratory:	York Analytical Laboratories, Inc. - Stratford			SDG:	23B0840
Client:	Liberty Environmental, Inc			Project:	220192 27-09 40th Ave.
Matrix:	Water	Laboratory ID:	23B0840-05	File ID:	V10C016535.D
Sampled:	02/14/23 12:41	Prepared:	02/25/23 07:00	Analyzed:	02/25/23 19:40
Solids:		Preparation:	EPA 5030B	Initial/Final:	25 mL / 25 mL
Batch:	BB31586	Sequence:	S3B2607	Calibration:	SC30001
Instrument:	VOA No. 10				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
630-20-6	1,1,1,2-Tetrachloroethane	1	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	1	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.50	U
75-34-3	1,1-Dichloroethane	1	0.50	U
75-35-4	1,1-Dichloroethylene	1	0.50	U
87-61-6	1,2,3-Trichlorobenzene	1	0.50	U
96-18-4	1,2,3-Trichloropropane	1	0.50	U
120-82-1	1,2,4-Trichlorobenzene	1	0.50	U
95-63-6	1,2,4-Trimethylbenzene	1	0.50	U
96-12-8	1,2-Dibromo-3-chloropropane	1	0.50	U
106-93-4	1,2-Dibromoethane	1	0.50	U
95-50-1	1,2-Dichlorobenzene	1	0.50	U
107-06-2	1,2-Dichloroethane	1	0.50	U
78-87-5	1,2-Dichloropropane	1	0.50	U
108-67-8	1,3,5-Trimethylbenzene	1	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.50	U
123-91-1	1,4-Dioxane	1	40	✗ UJ
78-93-3	2-Butanone	1	0.64	
591-78-6	2-Hexanone	1	0.50	U
108-10-1	4-Methyl-2-pentanone	1	0.50	U
67-64-1	Acetone	1	2.9	
107-02-8	Acrolein	1	0.50	✗ UJ
107-13-1	Acrylonitrile	1	0.50	U
71-43-2	Benzene	1	0.50	U
74-97-5	Bromochloromethane	1	0.50	U
75-27-4	Bromodichloromethane	1	0.22	J
75-25-2	Bromoform	1	0.50	U
74-83-9	Bromomethane	1	0.50	U
75-15-0	Carbon disulfide	1	0.50	U
56-23-5	Carbon tetrachloride	1	0.50	U
108-90-7	Chlorobenzene	1	0.50	U
75-00-3	Chloroethane	1	0.50	U
67-66-3	Chloroform	1	1.0	
74-87-3	Chloromethane	1	0.50	U
156-59-2	cis-1,2-Dichloroethylene	1	0.50	U
10061-01-5	cis-1,3-Dichloropropylene	1	0.50	U
110-82-7	Cyclohexane	1	0.50	U

MW 7/29/23

FORM I **ORGANIC ANALYSIS DATA SHEET**

EPA 8260C

IW-1

5

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23B0840

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 23B0840-05 File ID: V10C016535.D

Sampled: 02/14/23 12:41 Prepared: 02/25/23 07:00 Analyzed: 02/25/23 19:40

Solids: Preparation: EPA 5030B Initial/Final: 25 mL / 25 mL

Batch: BB31586 Sequence: S3B2607 Calibration: SC30001 Instrument: VOA No. 10

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	Q
124-48-1	Dibromochloromethane	1	0.21	J
74-95-3	Dibromomethane	1	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.50	U
100-41-4	Ethyl Benzene	1	0.50	U
87-68-3	Hexachlorobutadiene	1	0.50	U
98-82-8	Isopropylbenzene	1	0.50	U
79-20-9	Methyl acetate	1	0.50	U
1634-04-4	Methyl tert-butyl ether (MTBE)	1	0.50	U
108-87-2	Methylcyclohexane	1	0.50	U
75-09-2	Methylene chloride	1	2.0	U
104-51-8	n-Butylbenzene	1	0.50	U
103-65-1	n-Propylbenzene	1	0.50	U
95-47-6	o-Xylene	1	0.50	U
179601-23-1	p- & m- Xylenes	1	1.0	U
99-87-6	p-Isopropyltoluene	1	0.50	U
135-98-8	sec-Butylbenzene	1	0.50	U
100-42-5	Styrene	1	0.50	U
75-65-0	tert-Butyl alcohol (TBA)	1	1.0	U UJ
98-06-6	tert-Butylbenzene	1	0.50	U
127-18-4	Tetrachloroethylene	1	19	J
108-88-3	Toluene	1	0.50	U
156-60-5	trans-1,2-Dichloroethylene	1	0.50	U
10061-02-6	trans-1,3-Dichloropropylene	1	0.50	U
110-57-6	trans-1,4-dichloro-2-butene	1	0.50	U
79-01-6	Trichloroethylene	1	0.33	J
75-69-4	Trichlorofluoromethane	1	0.29	J
75-01-4	Vinyl Chloride	1	0.50	U
1330-20-7	Xylenes, Total	1	1.5	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
SURR: 1,2-Dichloroethane-d4	10.0	9.73	97.3	69 - 130	
SURR: Toluene-d8	10.0	10.2	102	81 - 117	
SURR: p-Bromofluorobenzene	10.0	10.3	103	79 - 122	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
ISTD: Fluorobenzene	146012	5.829	157811	5.826	
ISTD: Chlorobenzene-d5	440920	8.852	473269	8.855	
ISTD: 1,2-Dichlorobenzene-d4	174560	11.836	187090	11.839	

* Values outside of QC limits

7/29/23

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

MW-108

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23B0840

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 23B0840-01 File ID: QBI022423ASRE_1-151

Sampled: 02/14/23 09:28 Prepared: 02/23/23 08:53 Analyzed: 02/24/23 17:30

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BB31413 Sequence: S3B2712 Calibration: 02/24/23 1 Instrument: WinLabICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-70-2	Calcium	47.6	1	B	EPA 6010D
7440-47-3	Chromium	0.00556	1	U	EPA 6010D
7439-95-4	Magnesium	17.2	1		EPA 6010D

MW 7/29/23

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

MW-107

2

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23B0840

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 23B0840-02 File ID: QBI022423ASRE_1-152

Sampled: 02/14/23 12:08 Prepared: 02/23/23 08:53 Analyzed: 02/24/23 17:33

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BB31413 Sequence: S3B2712 Calibration: 02/24/23 1 Instrument: WinLabICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-70-2	Calcium	165	1	B	EPA 6010D
7440-47-3	Chromium	0.00556	1	U	EPA 6010D
7439-95-4	Magnesium	70.3	1		EPA 6010D

MW 7/29/23

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

MW-105

3

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23B0840

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave,

Matrix: Water Laboratory ID: 23B0840-03 File ID: QBI022423ASRE_1-153

Sampled: 02/14/23 11:29 Prepared: 02/23/23 08:53 Analyzed: 02/24/23 17:36

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BB31413 Sequence: S3B2712 Calibration: 02/24/23 1 Instrument: WinLabICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-70-2	Calcium	241	1	B	EPA 6010D
7440-47-3	Chromium	0.00603	1		EPA 6010D
7439-95-4	Magnesium	103	1		EPA 6010D

MW 7129123

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

MW-106

4

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23B0840

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 23B0840-04 File ID: QBI022423ASRE_1-156

Sampled: 02/14/23 13:30 Prepared: 02/23/23 08:53 Analyzed: 02/24/23 17:44

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BB31413 Sequence: S3B2712 Calibration: 02/24/23 1 Instrument: WinLabICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-70-2	Calcium	105	1	B	EPA 6010D
7440-47-3	Chromium	0.00556	1	U	EPA 6010D
7439-95-4	Magnesium	54.5	1		EPA 6010D

MW 7/29/23

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6010D

IW-1

5

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23B0840

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 23B0840-05 File ID: QBI022423ASRE_1-157

Sampled: 02/14/23 12:41 Prepared: 02/23/23 08:53 Analyzed: 02/24/23 17:47

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BB31413 Sequence: S3B2712 Calibration: 02/24/23 1 Instrument: WinLabICP

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
7440-70-2	Calcium	88.3	1	B	EPA 6010D
7440-47-3	Chromium	0.0420	1		EPA 6010D
7439-95-4	Magnesium	52.1	1		EPA 6010D

mw 7/29/23

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6020B

MW-108

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23B0840

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 23B0840-01 File ID: QBIMX022423A-016

Sampled: 02/14/23 09:28 Prepared: 02/23/23 11:01 Analyzed: 02/24/23 10:56

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BB31432 Sequence: S3B2431 Calibration: 02/24/23 1 Instrument: Nexion2000C

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	2.83	1		EPA 6020B

7/29/23

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6020B

MW-108

1

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23B0840

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 23B0840-01RE1 File ID: QBIMX022623A-073

Sampled: 02/14/23 09:28 Prepared: 02/23/23 11:01 Analyzed: 02/26/23 18:55

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BB31432 Sequence: S3B2707 Calibration: 02/26/23 1 Instrument: Nexion2000C

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7439-89-6	Iron	12800	10	D	EPA 6020B
7439-96-5	Manganese	209	10	D	EPA 6020B

MW 4/29/23

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6020B

MW-107

2

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23B0840

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 23B0840-02 File ID: QBIMX022423A-017

Sampled: 02/14/23 12:08 Prepared: 02/23/23 11:01 Analyzed: 02/24/23 10:59

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BB31432 Sequence: S3B2431 Calibration: 02/24/23 1 Instrument: Nexion2000C

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	1.11	1	U	EPA 6020B
7439-89-6	Iron	1040	1		EPA 6020B

MW 7/29/23

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6020B

MW-107

2

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23B0840

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 23B0840-02RE1 File ID: QBIMX022623A-074

Sampled: 02/14/23 12:08 Prepared: 02/23/23 11:01 Analyzed: 02/26/23 18:58

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BB31432 Sequence: S3B2707 Calibration: 02/26/23 1 Instrument: Nexion2000C

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7439-96-5	Manganese	625	10	D	EPA 6020B

NW 7129123

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6020B

MW-105

3

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23B0840

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 23B0840-03 File ID: QBIMX022423A-018

Sampled: 02/14/23 11:29 Prepared: 02/23/23 11:01 Analyzed: 02/24/23 11:03

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BB31432 Sequence: S3B2431 Calibration: 02/24/23 1 Instrument: Nexion2000C

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	1.11	1	U	EPA 6020B
7439-89-6	Iron	6000	1		EPA 6020B

mw 7/29/23

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6020B

MW-105

3

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23B0840

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave,

Matrix: Water Laboratory ID: 23B0840-03RE1 File ID: QBIMX022623A-075

Sampled: 02/14/23 11:29 Prepared: 02/23/23 11:01 Analyzed: 02/26/23 19:02

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BB31432 Sequence: S3B2707 Calibration: 02/26/23 1 Instrument: Nexion2000C

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7439-96-5	Manganese	1600	20	B	EPA 6020B

MW 7/29/23

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6020B

MW-106

4

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23B0840

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 23B0840-04 File ID: QBIMX022423A-019

Sampled: 02/14/23 13:30 Prepared: 02/23/23 11:01 Analyzed: 02/24/23 11:06

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BB31432 Sequence: S3B2431 Calibration: 02/24/23 1 Instrument: Nexion2000C

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	1.11	1	U	EPA 6020B
7439-89-6	Iron	2410	1		EPA 6020B

nw 7/29/23

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6020B

MW-106

4

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23B0840

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 23B0840-04RE1 File ID: QBIMX022623A-076

Sampled: 02/14/23 13:30 Prepared: 02/23/23 11:01 Analyzed: 02/26/23 19:05

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BB31432 Sequence: S3B2707 Calibration: 02/26/23 1 Instrument: Nexion2000C

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7439-96-5	Manganese	1220	20	D	EPA 6020B

NW 7/29/23

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6020B

IW-1

5

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23B0840

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 23B0840-05 File ID: QBIMX022423A-020

Sampled: 02/14/23 12:41 Prepared: 02/23/23 11:01 Analyzed: 02/24/23 11:10

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BB31432 Sequence: S3B2431 Calibration: 02/24/23 1 Instrument: Nexion2000C

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7440-38-2	Arsenic	1.58	1		EPA 6020B

MW 7/29/23

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6020B

IW-1

5

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23B0840

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 23B0840-05RE1 File ID: QBIMX022623A-079

Sampled: 02/14/23 12:41 Prepared: 02/23/23 11:01 Analyzed: 02/26/23 19:16

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BB31432 Sequence: S3B2707 Calibration: 02/26/23 1 Instrument: Nexion2000C

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7439-89-6	Iron	23000	10	D	EPA 6020B

7/29/23

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 6020B

IW-1

5

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23B0840

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 23B0840-05RE2 File ID: QBIMX022723A-029

Sampled: 02/14/23 12:41 Prepared: 02/23/23 11:01 Analyzed: 02/27/23 14:10

Solids: 0.00 Preparation: EPA 3015A Initial/Final: 45 mL / 50 mL

Batch: BB31432 Sequence: S3B2731 Calibration: 02/27/23 1 Instrument: Nexion2000C

CAS NO.	Analyte	Concentration (ug/L)	Dilution Factor	Q	Method
7439-96-5	Manganese	1000	20	D	EPA 6020B

7/29/23

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 300.0

MW-108

1

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23B0840

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 23B0840-01 File ID: QBIC2-021623A-23B0840-01_Int

Sampled: 02/14/23 09:28 Prepared: 02/17/23 00:37 Analyzed: 02/17/23 00:37

Solids: 0.00 Preparation: EPA 300 Initial/Final: 5.5 mL / 5.5 mL

Batch: BB31019 Sequence: Calibration: 02/17/23 0 Instrument: CD

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
16887-00-6	Chloride	59.3	10	D	EPA 300.0
14797-55-8	Nitrate as N	3.94	1	J	EPA 300.0
14808-79-8	Sulfate	12.4	1	J	EPA 300.0

MW 7/29/23

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 300.0

MW-107

2

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23B0840

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 23B0840-02 File ID: QBIC2-021623A-23B0840-02_In

Sampled: 02/14/23 12:08 Prepared: 02/17/23 01:07 Analyzed: 02/17/23 01:07

Solids: 0.00 Preparation: EPA 300 Initial/Final: 5.5 mL / 5.5 mL

Batch: BB31019 Sequence: Calibration: 02/17/23 0 Instrument: CD

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
16887-00-6	Chloride	325	10	D	EPA 300.0
14797-55-8	Nitrate as N	19.8	10	J D	EPA 300.0
14808-79-8	Sulfate	101	10	D	EPA 300.0

NW 7/29/23

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 300.0

MW-105

3

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23B0840

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave,

Matrix: Water Laboratory ID: 23B0840-03 File ID: QBIC2-021623A-23B0840-03_In

Sampled: 02/14/23 11:29 Prepared: 02/17/23 01:17 Analyzed: 02/17/23 01:17

Solids: 0.00 Preparation: EPA 300 Initial/Final: 5.5 mL / 5.5 mL

Batch: BB31019 Sequence: Calibration: 02/17/23 0 Instrument: CD

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
16887-00-6	Chloride	556	10	~~D~~	EPA 300.0
14797-55-8	Nitrate as N	33.7	10	J ~~D~~	EPA 300.0
14808-79-8	Sulfate	156	10	~~D~~	EPA 300.0

MW 7/29/23

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 300.0

MW-106

4

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23B0840

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 23B0840-04 File ID: QBIC2-021623A-23B0840-04_In

Sampled: 02/14/23 13:30 Prepared: 02/17/23 01:26 Analyzed: 02/17/23 01:26

Solids: 0.00 Preparation: EPA 300 Initial/Final: 5.5 mL / 5.5 mL

Batch: BB31019 Sequence: Calibration: 02/17/23 0 Instrument: CD

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
16887-00-6	Chloride	126	10	D	EPA 300.0
14797-55-8	Nitrate as N	5.83	1	J	EPA 300.0
14808-79-8	Sulfate	85.3	10	D	EPA 300.0

MW 7/29/23

FORM I **INORGANIC ANALYSIS DATA SHEET**

EPA 300.0

IW-1

5

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23B0840

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 23B0840-05 File ID: QBIC2-021623A-23B0840-05_In

Sampled: 02/14/23 12:41 Prepared: 02/17/23 01:36 Analyzed: 02/17/23 01:36

Solids: 0.00 Preparation: EPA 300 Initial/Final: 5.5 mL / 5.5 mL

Batch: BB31019 Sequence: Calibration: 02/17/23 0 Instrument: CD

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
16887-00-6	Chloride	64.7	10	D	EPA 300.0
14797-55-8	Nitrate as N	8.25	1	J	EPA 300.0
14808-79-8	Sulfate	48.6	10	D	EPA 300.0

MW 7/29/23

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2320B

MW-108

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23B0840

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 23B0840-01 File ID:

Sampled: 02/14/23 09:28 Prepared: 02/21/23 07:26 Analyzed: 02/21/23 13:51

Solids: 0.00 Preparation: Analysis Preparation Initial/Final: 50 mL / 50 mL

Batch: BB31217 Sequence: Calibration: 02/21/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
	Alkalinity, total	44	1		SM 2320B

MW 7/29/23

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2320B

MW-107

2

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23B0840

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 23B0840-02 File ID:

Sampled: 02/14/23 12:08 Prepared: 02/21/23 07:26 Analyzed: 02/21/23 13:51

Solids: 0.00 Preparation: Analysis Preparation Initial/Final: 50 mL / 50 mL

Batch: BB31217 Sequence: Calibration: 02/21/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
	Alkalinity, total	380	1		SM 2320B

NW 7/29/23

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2320B

MW-105

3

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23B0840

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 23B0840-03 File ID:

Sampled: 02/14/23 11:29 Prepared: 02/21/23 07:26 Analyzed: 02/21/23 13:51

Solids: 0.00 Preparation: Analysis Preparation Initial/Final: 50 mL / 50 mL

Batch: BB31217 Sequence: Calibration: 02/21/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
	Alkalinity, total	270	1		SM 2320B

NW 7/29/23

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2320B

MW-106

4

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23B0840

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 23B0840-04 File ID:

Sampled: 02/14/23 13:30 Prepared: 02/21/23 07:26 Analyzed: 02/21/23 13:51

Solids: 0.00 Preparation: Analysis Preparation Initial/Final: 50 mL / 50 mL

Batch: BB31217 Sequence: Calibration: 02/21/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
	Alkalinity, total	300	1		SM 2320B

NW 7/29/23

FORM I **INORGANIC ANALYSIS DATA SHEET**

SM 2320B

IW-1

5

Laboratory: York Analytical Laboratories, Inc. - Stratford SDG: 23B0840

Client: Liberty Environmental, Inc Project: 220192 27-09 40th Ave.

Matrix: Water Laboratory ID: 23B0840-05 File ID:

Sampled: 02/14/23 12:41 Prepared: 02/21/23 07:26 Analyzed: 02/21/23 13:51

Solids: 0.00 Preparation: Analysis Preparation Initial/Final: 50 mL / 50 mL

Batch: BB31217 Sequence: Calibration: 02/21/23 1 Instrument: Inst

CAS NO.	Analyte	Concentration (mg/L)	Dilution Factor	Q	Method
	Alkalinity, total	180	1		SM 2320B

MW 7/27/23

APPENDIX E.5

Groundwater Sampling Logs

2 rain gal Flip Water & Bottles NK JSY 11/1/22

MW-01	DTW 38.36	DTB 53.97	Water Column = 4.39		
	Turb 1 37.6	Turb 2 34.4	Turb 3 35.1	Sample Time	1303
MW-02	DTW 35.05	DTB 32.91	Water Column 2.14		
	Turb 1 27.1	Turb 2 20.6	Turb 3 20.4	Sample Time	1322
MW-03	DTW 31.69	DTB 32.96	Water Column 1.27	Sample Time	1157
	Turb 1 23.2	Turb 2 27.6	Turb 3 25.6		
MW-04	DTW 41.66	DTB 38.09	Water Col 3.57	Sample Time	1201
	Turb 1 25.0	Turb 2 26.4	Turb 3 24.2		
MW-05	DTW 34.16	DTB 32.71	Water Col 1.45	Sample Time	1207
	Turb 1 14.1	Turb 2 21.1	Turb 3 23.6		
MW-06	DTW 44.31	DTB 36.47	Water 7.84	Sample Time	1244
	Turb 1 [redacted]	Turb 2 40.2	Turb 3 34.7		
MW-07	DTW 34.95	DTB 35.17	Water 21.78	Sample Time	1122
	Turb 1 31.0	Turb 2 33.6	Turb 3 31.8		
MW-04 DUP	DTW 40.48	DTB 37.11	Water 3.37	Sample Time	1214
	Turb 1 42.0	Turb 2 41.0	Turb 3 38.3		
MW-08	DTW 46.01	DTB 34.90	Water 11.11	Sample Time	1233
	Turb 1 33.3	Turb 2 41.6	Turb 3 37.4		
MW-10	DTW 44.73	DTB 34.41	Water 5.18	Sample Time	1253
	Turb 1 27.1	Turb 2 28.6	Turb 3 35.9		
MW-09	DTW	DTB	Water	Sample Time	
	Turb 1	Turb 2	Turb 3		

Rite in the Rain

Well Number	Depth to Bottom (fl	Depth to Water (ft.)	Total Water (ft.)
MW-101	38.36	33.97	4.39
MW-102	35.25	32.91	2.34
MW-103	38.64	37.26	1.38
MW-104	41.66	38.29	3.37
MW-105	39.16	37.71	1.45
MW-106	44.21	36.67	7.54
MW-107	38.25	35.87	2.38
MW-108	40.98	37.11	3.87
MW-109	40.91	39.9	1.01
MW-110	44.73	39.61	5.12

FIELD ACTIVITY LOG

Liberty Environmental, Inc.

Project Number: 220192
Client: 40th Ave. Dutch Kills Realty
Project Name: 27-09 40th Ave.
Location: Long Island City, NY
Date: 12.01.2022
Weather Conditions: 40°F, partly cloudy

Purpose of Site Visit: Post Injection GWS

Staff Member(s): Y. Spencer

Equipment Used: Proactive Pump, Mini bladder pump, 1x bladder 45 ft x " tubing 45ft x " tubing, MP50, YSI 556, bottleware (GWS)

1024	YDS arrived on site. Site Manager Mike Avil and worker from NY Preferred on site.
1032	YDS checked remaining wells to be sampled (MW-105, MW-106, MW-107, MW-108, MW-109, MW-110) that are within site bound. MW-105 observed to be dry, and MW-107, which ~~is~~ are both missing well caps and were backfilled with soil/fill.
1115	All field equipment mobbed on to site and proactive pump set up at well IW-1 for TCM sample to be retaken. First sample was not fitered.
1134	YSI calibrated. Pump placed down well. See well log for notes, parameters and purge notes.
1137	IW-1 purge of 3 well volumes began. Pump placed @42'.
1218	Well purging slowed down. Pump ~~seemed~~ incapable of moving faster. YDS turned up flow meter and moved pump further up. to 40.5-41'.
1249	Pump has removed 1 gal of water from well. Pump turned off, because no more water released from tubing.
1252	YDS ~~disconnected~~ connected MP50 and bladder to check battery for pump.
1319	MP50 not running on battery. Battery appears dead.
1322	YDS left site to purchase new battery to continue sampling.
1335	YDS back on site with new battery.
1341	Proactive pump still not moving any further water from well.
1345	Filtered TCM sample taken from purged gallon of well vol.
1357	YDS ~~mobbed~~ mobbed Mini bladder pump connection to battery MP50 and set up ~~MW-106~~ to MW106.
~~1535~~ 1535	MW-106 purge started.

Signature: Yasmin Spencer

Liberty Environmental, Inc.

FIELD ACTIVITY LOG

Project Number: 220192
Client: 40th Ave. Dutch Kills Realty
Project Name: 27-09 40th Ave.
Location: Long Island City, NY
Date: 12.01.2022
Weather Conditions: 40°F, partly cloudy

1537 YDS shut off bladder pump. No water removed from well.
1544 YDS reconnected tubing to bladder pump to fix air connection.
1556 YDS removed grab plate and resecured tubing. Purge restarted.
1620 Bladder pump working and connected but only 150-200 mL removed from well.
1637 YDS turned off pump. Switching sample method to bailers and not purging any volume from well.
1643 MW-106 well depth to water = 36.79 ft. Total well depth = 43.41 ft.
1646 MW-106 sample taken. PH = 6.51
1700 MW-110 water depth = 36.48 ft. Depth to bottom = 44.74 ft.
1736 MW-110 sample taken. PH = 6.73
1758 MW-109 well depth = 46 ft to the bottom of the well. Depth to water = 34.76 ft.
1827 MW-109 sample taken. PH = 6.56
1845 MW-108 depth to water = 35.70 ft. Depth to bottom = 37.66 ft.
1940 MW-108 sample taken. PH = 6.72
2100 All supplies mobbed off site with boundary.
2102 YDS locked up site. Mobbed to MW-103 on 40th Ave.
2111 MW-103 depth to water = 37.52 ft. Depth to bottom = 39.5 ft
2120 MW-103 sample taken. Only VOC sample taken. PH unable to be taken.
2126 YDS closed MW-103 manhole w/ lid and demobbed remaining supplies off site.
2127 YDS off site. —— END OF REPORT ——

Signature: Yasmin Spencer

Liberty Environmental, Inc.

GROUNDWATER SAMPLING (STANDARD PURGE) / GUAGING SHEET

Date: 11.23.2022 | Client: 40th Ave. Dutch Kills Realty | Project No. 220192

Weather: 42 °F, partly cloudy | Site Location: 27-09 40th Avenue | Field Person: Yasani Spencer

Well Number	Well Diameter (in.)	Depth to Product (ft.)	Depth to Water (ft.)	Total Well Depth (ft.)	Water Column (ft.)	Purge Volume (gal.)	Tubing Reused? (Y/N)	Purging Start/End (time)	Total Volume Purged (gal.)	Purge Rate/Hand Bail (gpm/Hand)	Post-Purge DTW	DTW When Sampled	Time Sampled	Parameters					Observations/ Notes
														pH	Cond (mS/cm^{c})	DO (%)	ORP	Temp (°C)	
														13.33	69.46	142.2	251.2	16.02	Water is bright pink and has small fizz-like bubbles when coming up the tubing
IW-2	2	N/A	39	45	6	2.94	N	1837/1850	3	0.23 gpm	40	40	1852	13.58	62.37	153.6	265	16.18	
														13.58	41.07	128.5	269.3	16.15	
														11.44	0.583	112.4	285.1	9.14	Groundwater is a light green color and has some fizz-like bubbles when coming up the tubing
IW-1	2	N/A	38.5	44	5.5	2.94	N	1717/1754	3	0.08 gpm	39.5	39.5	1756	11.74	0.368	105	369.4	5.68	
														11.85	0.305	100.7	385.6	5.43	

Notes: Purge Volume = 3[(Water Column) (Well Diameter Multiplier)] Well Diameter Multiplier = 1" Well (0.04) 2" Well (0.163) 4" Well (0.652) 6" Well (1.47) 8" Well (2.61) 10" Well (4.08)

Liberty Environmental, Inc.

GROUNDWATER SAMPLING (STANDARD PURGE) / GUAGING SHEET

Date: 12.01.2022 | Client: 40th Ave. Dutch Kills Realty | Project No. 220192

Weather: 40°F, partly cloudy | Site Location: 27-09 40th Avenue | Field Person: Yasani Spencer

Well Number	Well Diameter (in.)	Depth to Product (ft.)	Depth to Water (ft.)	Total Well Depth (ft.)	Water Column (ft.)	Purge Volume (gal.)	Tubing Reused? (Y/N)	Purging Start/End (time)	Total Volume Purged (gal.)	Purge Rate/Hand Bail (gpm/Hand)	Post-Purge DTW	DTW When Sampled	Time Sampled	Parameters					Observations/ Notes
														pH	Cond (mS/cm^{C})	DO (%)	ORP	Temp (°C)	
IW-1	2	N/A	39.53	44.86	5.33	1	N	1137/1249	3	0.04 gpm	39.08	39.08	1345	11.62	0.492	110.1	-287.7	10.26	SEE FIELD LOG FOR NOTES ON MECHANICAL ISSUES
MW-106	1	N/A	36.76	43.41	6.63	0.05	N	1535/1637	3	0.05 gpm	36.79	36.79	1646	6.51	0.586	124.7	-290.1	9.18	SEE FIELD LOG FOR NOTES ON MECHANICAL ISSUES

REAMAINING WELLS SAMPLED W/O PURGE AND WITH BAILERS. NOTES IN FIELD LOG.

Notes: Purge Volume = 3[(Water Column) (Well Diameter Multiplier)] Well Diameter Multiplier = 1" Well (0.04) 2" Well (0.163) 4" Well (0.652) 6" Well (1.47) 8" Well (2.61) 10" Well (4.08)

FIELD ACTIVITY LOG

Liberty Environmental, Inc.

Project Number: 220192
Client: 40th Ave Dutch Kills Realty
Project Name: 27-09 40th Ave
Location: Queens, NY
Date: 02.14.23
Weather Conditions: 43°F, sunny

Purpose of Site Visit: Groundwater Sampling - Pilot

Staff Member(s): Y. Spencer

Equipment Used: 3/4" bailers x10, DTW meter, bottleware (GWS)

7 x 1L bottles
15 x 20 mL bottles
10 x 250 mL bottles

0813 YDS on site. E-Phase 2 mobilized drill rig on site.
0820 E-Phase 2 looking for parking
0850 YDS confirmed well design and install plan with Craig Herr. 10-15 Ft well depth w/ screen. Screen pulled after sampling. Sediment to be cleared from well before sampling, purging up to 3 well volumes as necessary. All samples are grab using bailers.
0853 E-Phase mobilized [redacted] at MW105.
0857 Drilling start MW-105.
0921 Drilling & well construction end. MW105
0923 YDS checked well depth & turbidity/sediment content of grab sample.
0928 Grab sample clear, no need to purge.
0938 YSI calibrated.
0939 MW[redacted] drilling started MW105
0947 MW[redacted] drilling ended. 25' of pvc, 10' screen, 15' riser (MW105) installed in 30' well.
0949 MW107 drilling started.
0959 MW107 drill ended. 25' pvc, 10' screen, 15' riser. 30ft well.
1001 [redacted] IW1 drill started. 30' well. Same construction as above.
1020 [redacted] IW1 drill ended.
1036 Wiring issue with throttle on rig. Paused drilling.
1056 MW106 drill started. located 40' south 30 ft well with 25' pvc, 10' screen.
1106 Purge started MW105. Sample notes in GWS log.
1130 Mobbed to sample MW107. Sample notes on GWS log.
1152 Purged [redacted] MW107
1208 Sampled [redacted] MW107
1241 IW-1 Sampled. Sample notes in sample log.
1412 [redacted] Mobbed to MW103. E-Phase 2 off Site.
1420 MW103 Dry. Closed well.
[redacted]
1428 YDS off-Site. — END OF REPORT —

Signature: [redacted]

York Analytical Laboratories, Inc.
120 Research Drive
Stratford, CT 06615
132-02 89th Ave
Queens, NY 11418
clientservices@yorklab.com
www.yorklab.com

Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No.:

YOUR Information	Report To:	Invoice To:
Company: Liberty Environmental	Company:	Company:
Address: 600 3rd Ave New York, NY 10016	Address: Same	Address: Same
Phone:	Phone:	Phone:
Contact: Yasani Spencer	Contact: jcinelli@libertyenviro.com	Contact:
E-mail: yspencer@libertyenviro.com	E-mail: cherr@libertyenviro.com	E-mail:

YOUR Project Number: 220192

YOUR Project Name: 27-09 40th Ave

YOUR PO#:

Turn-Around Time

RUSH - Next Day	
RUSH - Two Day	
RUSH - Three Day	
RUSH - Four Day	
Standard (5-7 Day)	X

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Yasani Spencer

Samples Collected by: (print your name above and sign below)

Yasani Spencer

Matrix Codes

S - soil / solid	
GW - groundwater	
DW - drinking water	
WW - wastewater	
O - Oil ⋮ Other	

Samples From

New York	X
New Jersey	
Connecticut	
Pennsylvania	
Other	

Report / EDD Type (circle selections)

(Summary Report)	CT RCP	(Standard Excel EDD)
QA Report	CT RCP DQA/DUE	EQuIS (Standard)
NY ASP A Package	NJDEP Reduced Deliverables	(NYSDEC EQuIS)
NY ASP B Package	NJDKQP	NJDEP SRP HazSite
		Other:

YORK Reg. Comp.

Compared to the following Regulation(s): (please fill in)

NYSDEC

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
MW-108	GW	2.14.23 0925	TAMs*, Alkalinity, Hardness, Anions*, VOCs*	1L x 250mL, 3x40
MW-107	GW	2.14.23 1208	"	" "
MW-105	GW	2.14.23 1129	"	" "
MW-106	GW	2.14.23 1330	"	" "
IW-1	GW	2.14.23 1241	"	" "

Comments:
* TAMs = arsenic, chromium, iron, calcium, magnesium, manganese
* All VOCs analyzed
* Anions = chloride, sulfate, nitrate → Samples filtered in field

Preservation: (check all that apply)

HCl X MeOH ___ HNO3 X H2SO4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: None

Special Instruction

Field Filtered X
Lab to Filter ___

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time
Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Received in LAB by Date/Time	Temp. Received at Lab
					Degrees C

York Analytical Laboratories, Inc.
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132-02 89th Ave, Queens, NY 11418
clientservices@yorklab.com
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Field Chain-of-Custody Record

NOTE: YORK's Standard Terms & Conditions are listed on the back side of this document.
This document serves as your written authorization for YORK to proceed with the analyses requested below.
Your signature binds you to YORK's Standard Terms & Conditions.

YORK Project No.

YOUR Information	Report To:	Invoice To:	YOUR Project Number	Turn-Around Time
Company: Liberty Environmental	Company:	Company:	22192	RUSH - Next Day
Address: 600 3rd Ave New York NY 10016	Address: Same	Address: Same	YOUR Project Name: 27-09 40th Ave	RUSH - Two Day
Phone:	Phone:	Phone:		RUSH - Three Day
Contact: Yasani Spencer	Contact:	Contact:		RUSH - Four Day
E-mail: yspencer@libertyenviro.com	E-mail: cherr@libertyenviro.com, kinelli@libertyenviro.com	E-mail:	YOUR PO#:	Standard (5-7 Day) X

Please print clearly and legibly. All information must be complete. Samples will not be logged in and the turn-around-time clock will not begin until any questions by YORK are resolved.

Yasani Spencer

Samples Collected by: (print your name above and sign below)

Yasani Spencer

Matrix Codes	Samples From		Report / EDD Type (circle selections)			YORK Reg. Comp.
S - soil / solid	New York	X	Summary Report	CT RCP	Standard Excel EDD	Compared to the following Regulation(s): (please fill in)
GW - groundwater	New Jersey		QA Report	CT RCP DQA/DUE	EQuIS (Standard)	
DW - drinking water	Connecticut		NY ASP A Package	NJDEP Reduced Deliverables	NYSDEC EQuIS	NYSDEC
WW - wastewater	Pennsylvania		NY ASP B Package	NJDKQP	NJDEP SRP HazSite	
O - Oil ; Other	Other				Other:	

Sample Identification	Sample Matrix	Date/Time Sampled	Analysis Requested	Container Description
MW-10S	GW	2.14.23 0925	TAMs + Alkalinity, Hardness, A-cor VOCs	1L 250mL HCl
MW-10I	GW	2.14.23 1208	"	"
MW-10D	GW	2.14.23 1129	"	"
MW-10R	GW	2.14.23 1230	"	"
TW-1	GW	2.14.23 [illegible]	"	"

Comments:
* TAMs = arsenic, chromium, iron, calcium, magnesium, manganese
* All VOCs analyzed
* Anions = chloride, sulfate, nitrate ⇒ samples filtered in field

Preservation: (check all that apply)
HCl X MeOH ___ HNO_3 X H_2SO_4 ___ NaOH ___ ZnAc ___
Ascorbic Acid ___ Other: None

Special Instruction
Field Filtered X
Lab to Filter ___

Samples Relinquished by / Company	Date/Time	Samples Received by / Company	Date/Time	Samples Relinquished by / Company	Date/Time
Yasani Spencer	2.15.23 1736				
Samples Received by / Company	**Date/Time**	**Samples Relinquished by / Company**	**Date/Time**	**Samples Received by / Company**	**Date/Time**
Samples Relinquished by / Company	**Date/Time**	**Samples Received by / Company**	**Date/Time**	**Samples Received in LAB by** Date/Time	**Temp. Received at Lab**
				2/15/23 1736	Degrees C

Liberty Environmental, Inc.

GROUNDWATER SAMPLING (STANDARD PURGE) / GUAGING SHEET

Date: 02.14.2023 | Client: 40th Avenue Dutch Kills Realty | Project No. 220192

Weather: 43 °F, sunny | Site Location: 27-09 40th Avenue | Field Person: Yasani Spencer

Well Number	Well Diameter (in.)	Depth to Product (ft.)	Depth to Water (ft.)	Total Well Depth (ft.)	Water Column (ft.)	Purge Volume (gal.)	Tubing Reused? (Y/N)	Purging Start/End (time)	Total Volume Purged (gal.)	Purge Rate/Hand Bail (gpm/Hand)	Post-Purge DTW	DTW When Sampled	Time Sampled	Parameters					Observations/ Notes
														pH	Cond	DO	ORP	Temp (°C)	
MW-108	1	~~	12.1	14.5	2.4	~~	~~	~~	~~	0.07 gal/hand	12.1	12.1	928	7.56	0.414	105	77.9	12.22	First handbail retreived clear groundwater, therefore the sample was immediately taken without purging any volume. More sediment retreived as sampling continued.
MW-105	1	~~	19.02	23.6	4.58	0.57	N	1106/1113	0.6	0.09 gpm	19.1	19.1	1129	7.7	1.66	178.2	-214.9	14.23	Purged using E-Phase 2 perisalitic pump. Sample taken using pump for TAMs & 1L sample. Bailer used for anion and VOC samples.
MW-107	1	~~	16.5	23	6.5	0.81	N	1153/1200	0.8	0.11 gpm	16.71	16.7	1208	7.7	1.128	121.5	-150.2	13.89	Purged using E-Phase 2 perisalitic pump. Sample taken using pump for TAMs & 1L sample. Bailer used for anion and VOC samples.
MW-106	1	~~	19.5	28.5	9	1.11	N	1303/1315	0.05 + 0.28	0.004 gpm & 0.07 gal/hand	19	19	1330	8.4	0.613	97.3	-586.6	15.36	Started to purge with peristaltic pump, however flowrate was extremely slow. Battery for pump drained from drilling activities. Handbailed 3 bailer volumes then sampled.
MW-103	1	~~	7.83	7.83	0	~~	~~	~~	~~	~~	~~	~~	~~	~~	~~	~~	~~	~~	Both monitoring wells @ MW-103 location dry. 1" well filled with sediment & 2" well clogged interface probe with sediment when retreived.
IW-1	1	~~	18.63	25.2	6.57	0.78	~~	1236	0.14	0.07 gal/hand	18.6	18.6	1241	8.34	0.402	105.1	-459.3	16.63	Battery for perisaltic pump in use for GreoProbe during loading and mechanical repairs. Handbailed 3 bailers then retreived sample using handbailing only.

Notes: Purge Volume = 3[(Water Column) (Well Diameter Multiplier)] Well Diameter Multiplier = 1" Well (0.04) 2" Well (0.163) 4" Well (0.652) 6" Well (1.47) 8" Well (2.61) 10" Well (4.08)